Franz Oesch
Institute of Toxicology
University of Mainz
Obere Zahlbacher Strasse 67
D-55131 Mainz

PUBLICATION LIST

(Abstracts and Extended Abstracts are not listed)

1. Oesch, F. and Meier, H.: Trehalose in the cambial sap of Fagus silvatica L. Phytochemistry 6: 1147-1148, 1967.

2. Oesch, F.: Die niedermolekularen Kohlenhydrate und Polyole im Cambialsaft der Buche. Planta (Berl.) 68: 360-380, 1969.

3. Oesch, F.; Jerina, D.M. and Daly, J.: A radiometric assay for hepatic epoxide hydrase activity with 7-3H-styrene oxide. Biochim. Biophys. Acta 227: 685-691, 1971.

4. Oesch, F. and Daly, J.: Solubilization, purification and properties of a hepatic epoxide hydrase. Biochim. Biophys. Acta 227: 692-697, 1971.

5. Oesch, F.; Jerina, D.M. and Daly, J.: Substrate specificity of hepatic epoxide hydrase in microsomes and in a purified preparation: Evidence of homologous enzymes. Arch. Biochem. Biophys. 144: 253-261, 1971.

6. Oesch, F.; Kaubisch, N.; Jerina, D.M. and Daly, J.: Hepatic epoxide hydrase: Structure-activity relationships for substrates and inhibitors. Biochemistry 10: 4858-4866, 1971.

7. Oesch, F. and Daly, J.: Conversion of naphthalene to trans -naphthalene dihydrodiol: Evidence for the presence of a coupled aryl monooxygenase-epoxide hydrase system in hepatic microsomes. Biochem. Biophys. Res. Commun. 46: 1713-1720, 1972.

8. Oesch, F.; Waters, J.A.; Daly, J. and Witkop, B.: Fluorescent derivatives of strophanthidin: Interaction with sodium-potassium-activated adenosine triphosphatase. J. Med. Chem. 15: 757-759, 1972.

9. Daly, J.; Albuquerque, E.X.; Kauffman, F.C. and Oesch, F.: Effects of batrachotoxin on electroplax Na+-K+-ATPase and levels of ATP in rat muscle. J. Neurochem. 19: 2829-2834, 1972.

10. Nebert, D.W.; Benedict, W.F.; Gielen, J.E.; Oesch, F. and Daly, J.: Aryl hydrocarbon hydroxylase, epoxide hydrase, and 7,12-dimethylbenz[a]anthracene-produced skin tumorigenesis in the mouse. Mol. Pharmacol. 8: 374-379, 1972.

11. Oesch, F.; Jerina, D.M.; Daly, J.; Lu, A.Y.H.; Kuntzman, R. and Conney, A.H.: A reconstituted microsomal enzyme system that converts naphthalene to trans-1,2-dihydroxy-1,2-dihydronaphthalene via naphthalene 1,2-oxide: Presence of epoxide hydrase in cytochrome P-450 and P-448 fractions. Arch. Biochem. Biophys. 153: 62-67, 1972.

12. Oesch, F.; Jerina, D.M.; Daly, J. and Rice, J.: Induction, activation and inhibition of epoxide hydrase: An anomalous prevention of chlorobenzene-induced hepatotoxicity by an inhibitor of epoxide hydrase. Chem.-Biol. Interactions 6: 189-202, 1973.

13. Thoenen, H. and Oesch, F.: New enzyme synthesis as a long-term adaptation to increased transmitter utilization. In: New Concepts in Neurotransmitter Regulation (ed. Mandell, A.J.), Plenum Publ. Corp., New York, pp. 33-52, 1973.

14. Sorimachi, M.; Oesch, F. and Thoenen, H.: Effects of colchicine and cytochalasin B on the release of 3H-norepinephrine from guinea-pig atria evoked by high potassium, nicotine and tyramine. Naunyn-Schmiedeberg‘s Arch. Pharmacol. 276: 1-12, 1973.

15. Oesch, F. and Thoenen, H.: Increased activity of the peripheral sympathetic nervous system: Induction of choline acetyltransferase in the preganglionic cholinergic neurone. Nature 242: 536-537, 1973.

16. Oesch, F.; Otten, U. and Thoenen, H.: Relationship between the rate of axoplasmic transport and subcellular distribution of enzymes involved in the synthesis of norepinephrine. J. Neurochem. 20: 1691-1706, 1973.

17. Oesch, F.: Mammalian epoxide hydrases: Inducible enzymes catalyzing the inactivation of carcinogenic and cytotoxic metabolites derived from aromatic and olefinic compounds. (Review Article) Xenobiotica 3: 305-340, 1973.

18. Thoenen, H.; Otten, U. and Oesch, F.: Axoplasmic transport of enzymes involved in the synthesis of noradrenaline: relationship between the rate of transport and subcellular distribution. Brain Res. 62: 471-475, 1973.

19. Oesch, F.; Morris, N.; Daly, J.; Gielen, J. and Nebert, D.: Genetic expression of the induction of epoxide hydrase and aryl hydrocarbon hydroxylase activities in the mouse by phenobarbital or 3-methylcholanthrene. Mol. Pharmacol. 9: 692-696, 1973.

20. Thoenen, H.; Otten, U. and Oesch, F.: Trans-synaptic regulation of tyrosine hydroxylase. Life Sci. 13: XLIX-CLXI, 1973.

21. Otten, U.; Paravicini, U.; Oesch, F. and Thoenen, H.: Time requirement for the single steps of trans-synaptic induction of tyrosine hydroxylase in the peripheral sympathetic nervous system. Naunyn-Schmiedeberg‘s Arch. Pharmacol. 280: 117-127, 1973.

22. Otten, U.; Oesch, F. and Thoenen, H.: Dissociation between changes in cyclic AMP and subsequent induction of tyrosine hydroxylase in the rat superior cervic ganglion and adrenal medulla. Naunyn-Schmiedeberg‘s Arch. Pharmacol. 280: 129-140, 1973.

23. Thoenen, H.; Otten, U. and Oesch, F.: Trans-synaptic regulation of tyrosine hydroxylase. In: Frontiers in Catecholamine Research (eds. Usdin, E. and Snyder, S.H.), Pergamon Press., Oxford, pp. 179-185, 1973.

24. Thoenen, H.; Hendry, I.A.; Stöckel, K.; Paravicini, U. and Oesch, F.: Regulation of enzyme synthesis by neuronal activity and by nerve growth factor. In: Dynamics of Degeneration and Growth in Neurons (Wenner-Gren Symposium XXII) (eds. Fuxe, K.; Olson, L. and Zotterman, Y.), Pergamon Press, Oxford, pp. 315-328, 1974.

25. Oesch, F.: Trans-synaptic induction of choline acetyltransferase in the preganglionic neuron of the peripheral sympathetic nervous system. J. Pharmacol. Exp. Ther. 188: 439-444, 1974.

26. Goodman, R.; Oesch, F. and Thoenen, H.: Changes in enzyme patterns produced by high potassium concentration and dibutyryl cyclic AMP in organ cultures of sympathetic ganglia. J. Neurochem. 23: 369-378, 1974.

27. Otten, U.; Mueller, R.A.; Oesch, F. and Thoenen, H.: Location of an isoproterenol-sensitive cyclic AMP pool in adrenergic nerve cell bodies and its relationship to tyrosine 3-monooxygenase induction. Proc. Nat. Acad. Sci. USA 71: 2217-2221, 1974.

28. Oesch, F.; Thoenen, H. and Fahrländer, H. with the technical assistance of Suda, K.: Epoxide hydrase in human liver biopsy specimens: Assay and properties. Biochem. Pharmacol. 23: 1307-1317, 1974.

29. Oesch, F.: Purification and specificity of a microsomal human epoxide hydratase. Biochem. J. 139: 77-88, 1974.

30. Oesch, F. and Ohnhaus, E.E.: Dimethylbiguanide-evoked increase of anticoagulant elimination not associated with induction of drug metabolizing enzymes. Biochem. Medicine 11: 344-349, 1974.

31. Thoenen, H.; Otten, U.; Mueller, R.A.; Goodman, R. and Oesch, F.: Lack of correlation between the rate of increase in cyclic AMP and subsequent induction of tyrosine hydroxylase in sympathetic ganglia and adrenal medulla. In: Neuropsychopharmacology (Excerpta Med.), pp. 944-951, 1974.

32. Oesch, F.: Biochemistry of the mammalian systems involved in biosynthesis and inactivation of carcinogenic and potentially carcinogenic epoxides. Chimia 29: 67-68, 1975.

33. Levi-Montalcini, R.; Aloe, L.; Mugnaini, E.; Oesch, F. and Thoenen, H.: Nerve growth factor induces volume increase and enhances tyrosine hydroxylase synthesis in chemically axotomized sympathetic ganglia of newborn rats. Proc. Nat. Acad. Sci. USA 72: 595-599, 1975.

34. Oesch, F.: Transplacental control of epoxide forming and inactivating enzymes of rat fetal liver by clinically used drugs and by environmental chemicals. In: Basic and Therapeutic Aspects of Perinatal Pharmacology (eds. Morselli, P.L.; Garattini, S. and Sereni, F.), Raven Press, New York, pp. 53-64, 1975.

35. Oesch, F.; Otten, U.; Mueller, R.A.; Goodman, R. and Thoenen, H.: Trans-synaptic regulation of enzyme synthesis. In: Golgi Centennial Symposium Proceedings (ed. Santini, M.), Raven Press, New York, pp. 503-513, 1975.

36. Oesch, F.: Transplacental control of epoxide hydratase and its relationship to the control of microsomal monooxygenase. FEBS Lett. 53: 205-210, 1975.

37. Bentley, P. and Oesch, F.: Purification of rat liver epoxide hydratase to apparent homogeneity. FEBS Lett. 59: 291-295, 1975.

38. Bentley, P.; Oesch, F. and Tsugita, A.: Properties and amino acid composition of pure epoxide hydratase. FEBS Lett. 59: 296-299, 1975.

39. Glatt, H.R.; Oesch, F.; Frigerio, A. and Garattini, S.: Epoxides metabolically produced from some known carcinogens and from some clinically used drugs: I. Differences in mutagenicity. Int. J. Cancer 16: 787-797, 1975.

40. Oesch, F. and Glatt, H.R.: Evaluation of the relative importance of various enzymes involved in the control of mutagenic and cytotoxic metabolites. In: Tests in Chemical Carcinogenesis (eds. Montesano, R.; Bartsch, H. and Tomatis, L.), IARC Scientific Publications No. 12. International Agency for Research on Cancer, Lyon, pp. 255-274, 1976.

41. Oesch, F.: Differential control of rat microsomal "aryl hydrocarbon" monooxygenase and epoxide hydratase. J. Biol. Chem. 251: 79-87, 1976.

42. Oesch, F. and Bentley, P.: Antibodies against homogeneous epoxide hydratase: Evidence for a single enzyme hydrating styrene oxide and benzo[a]pyrene 4,5-(K-region-)oxide. Nature 259: 53-55, 1976.

43. Burchell, B.; Bentley, P. and Oesch, F.: Latency of epoxide hydratase and its relationship to that of UDP-glucuronyltransferase. Biochem. Biophys. Acta 444: 531-538, 1976.

44. Oesch, F.: Metabolic transformation of clinically used drugs to epoxides: New perspectives in drug-drug interactions. Biochem. Pharmacol. 25: 1935-1937, 1976.

45. Schmassmann, H.U.; Glatt, H.R. and Oesch, F.: A rapid assay for epoxide hydratase activity with benzo[a]pyrene 4,5-(K-region-)oxide as substrate. Analyt. Biochem. 74: 94-104, 1976.

46. Glatt, H.R. and Oesch, F.: Phenolic benzo[a]pyrene metabolites are mutagens. Mutation Res. 36: 379-384, 1976.

47. Oesch, F.; Bentley, P. and Glatt, H.R.: Prevention of benzo[a]pyrene-induced mutagenicity by homogeneous epoxide hydratase. Int. J. Cancer 18: 448-452, 1976.

48. Bentley, P.; Schmassmann, H.U.; Sims, P. and Oesch, F.: Epoxides derived from various polycyclic hydrocarbons as substrates of homogeneous and microsome-bound epoxide hydratase: A general assay and kinetic properties. Europ. J. Biochem. 69: 97-103, 1976.

49. Glatt, H.R.; Metzler, M.; Neumann, H.G. and Oesch, F.: Metabolic epoxidation of trans-4-acetylaminostilbene: A protective mechanism against its activation to a mutagen. Biochem. Biophys. Res. Commun. 73: 1025-1029, 1976.

50. Oesch, F.; Bentley, P. and Glatt, H.R.: Epoxide hydratase: Purification to apparent homogeneity as a specific probe for the relative importance of epoxides amongst other reactive metabolites. In: Biological Reactive Intermediates: Formation, Toxicity and Inactivation (eds. Jollow, D.J.; Kocsis, J.J.; Snyder, R. and Vainio, H.), Plenum Press, New York, pp. 181-206, 1977.

51. Oesch, F.; Glatt, H.R. and Schmassmann, H.U.: The apparent ubiquity of epoxide hydratase in rat organs. Biochem. Pharmacol. 26: 603-607, 1977.

52. Platt, K.L. and Oesch, F.: An improved synthesis of trans-1,2-dihydroxy-1,2-dihydrobenzene. Synthesis 449-450, 1977.

53. Platt, K.L. and Oesch, F.: The preparation of 14C and 3H-labelled benzene oxide. J. Labelled Compd. Radiopharm. 13: 471-479, 1977.

54. Oesch, F.: Epoxide hydratase. In: Advances in Biochemical Pharmacology (eds. Siest, G. and Heusghem, C.), Masson, Paris, pp. 127-148, 1977.

55. Bentley, P. and Oesch, F.: Isolation of rat liver epoxide hydratase: Properties and substrate specificity of the pure enzyme. In: Microsomes and Drug Oxidations (eds. Conney, A.H.; Estabrook, R.W.; Hildebrandt, A.G. and Ullrich, V.), Pergamon Press, Oxford, pp. 646-653, 1977.

56. Oesch, F.; Glatt, H.R. and Bentley, P.: Drug-drug interactions via inhibition of microsomal enzymes involved in metabolism of epoxides produced by microsomal monooxygenase. In: Microsomes and Durg Oxidations (eds. Conney, A.H.; Estabrook, R.W.; Hildebrandt, A.G. and Ullrich, V.), Pergamon Press, Oxford, pp. 442-446, 1977.

57. Oesch, F.: Bedeutung verschiedener Enzyme in der Kontrolle mutagener und kanzerogener polyzyklischer Kohlenwasserstoffe. Der Hautarzt 28: 563-573, 1977.

58. Bentley, P.; Oesch, F. and Glatt, H.R.: Dual role of epoxide hydratase in both activation and inactivation. Arch. Toxicol. 39: 65-75, 1977.

59. Glatt, H.R. and Oesch, F.: Inactivation of electrophilic metabolites by glutathione transferases and limitation of the system due to subcellular localization. Arch. Toxicol 39: 87-96, 1977.

60. Oesch, F.; Raphael, D.; Schwind, H. and Glatt, H.R.: Species differences in activating and inactivating enzymes related to the control of mutagenic metabolites. Arch. Toxicol. 39: 97-108, 1977.

61. Oesch, F.: Chemisch ausgelöste Krebsentstehung. In: Heft Nr. 5 der Schriftenreihe Stiftung Professor Dr. Max Cloetta, Zürich, pp. 19-30, 1977.

62a. Oesch, F.: Mechanismen der Inaktivierung reaktiver Stoffwechselprodukte von Pharmaka. Arzneim.-Forsch./Drug Res. 27 (II): 1832-1835, 1977.

62b. Oesch, F.: Mechanismen der Inaktivierung reaktiver Stoffwechselprodukte von Pharmaka. In: Mechanismen der Toxizität - Ihre klinische und toxikologische Bedeutung (ed. Gillmann, H.), Editio Cantor, Aulendorf, pp. 36-43, 1978.

63. Oesch, F.; Schmassmann, H.U. and Bentley, P.: Specificity of human, rat and mouse skin epoxide hydratase towards K-region epoxides of polycyclic hydrocarbons. Biochem. Pharmacol. 27: 17-20, 1978.

64. Walker, C.H.; Bentley, P. and Oesch, F.: Phylogenetic distribution of epoxide hydratase in different vertebrate species, strains and tissues measured using three substrates. Biochim. Biophys. Acta 539: 427-434, 1978.

65. Bentley, P. and Oesch, F.: Enzymes involved in activation and inactivation carcinogens and mutagens. In: Primary Liver Tumors (eds. Remmer, H.; Bolt, H.M.; Bannasch, P. and Popper, H.), MTP Press, Lancaster, England, pp. 239-252, 1978.

66. Schmassmann, H.U.; Sparrow, A.; Platt, K. and Oesch, F.: Epoxide hydratase and benzo[a]pyrene monooxygenase activities in liver, kidney and lung after treatment of rats with epoxides of widely varying structures. Biochem. Pharmacol. 27: 2237-2245, 1978.

67. Oesch, F.: Influence of enzyme patterns on mutagenic effects of carcinogenic polycyclic hydrocarbons. Staub, Reinhaltung der Luft 38: 244-247, 1978.

68. Tunek, A.; Platt, K.L.; Bentley, P. and Oesch, F.: Microsomal metabolism of benzene to species irreversibly binding to microsomal protein and effects of modifications of this metabolism. Mol. Pharmacol. 14: 920-929, 1978.

69. Schmassmann, H.U. and Oesch, F.: Trans-stilbene oxide: A selective inducer of rat liver epoxide hydratase. Mol. Pharmacol. 14: 834-847, 1978.

70. Oesch, F.: Metabolic inactivation of reactive metabolites. In: Advances in Pharmacology and Therapeutics (Proceedings of the 7th International Congress of Pharmacology), Vol. 9: Toxicology (ed. Cohen, Y.), Pergamon Press, Oxford, pp. 63-70, 1978.

71. Oesch, F.: Epoxide hydratase. Review. In: Progress in Drug Metabolism, Vol. 3 (eds. Bridges, J.W. and Chasseaud, L.F.), John Wiley and Sons, London, pp. 253-301, 1979.

72. Oesch, F. and Schmassmann, H.U.: Species and organ specificity of the trans-stilbene oxide induced effects on epoxide hydratase and benzo[a]pyrene monooxygenase activity in rodents. Biochem. Pharmacol. 28: 171-176, 1979.

73. Bentley, P. and Oesch, F.: Enzymic mechanisms of oxidation, reduction and hydrolysis. In: Foreign Compound Metabolism in Mammals, Vol. 5 (ed. Hathway, D.E.), The Chemical Society, Burlington House, London, pp. 89-131, 1979.

74. Van Cantfort, J.; Manil, L.; Gielen, J.E.; Glatt, H.R. and Oesch, F.: A new assay for glutathione S-transferase using (3H)benzo[a]pyrene 4,5-oxide as substrate. Inducibility by various chemicals in different rat tissues compared to that of aryl hydrocarbon hydroxylase and epoxide hydratase. Biochem. Pharmacol. 28: 455-460, 1979.

75. a. Oesch, f.: Enzymes as regulators of toxic reactions by electrophilic metabolites. Review. In: Mechanism of Toxic Action on Some Target Organs (eds. chambers, P.L. and Günzel, P.), Springer-Verlag, Heidelberg, pp. 215-227, 1979.

b. Oesch, F.: Enzymes as regulators of toxic reactions by electrophilic metabolites. Review. Arch. Toxicol., Suppl. 2: 215-227, 1979.

76. a. Lorenz, J.; Schmassmann, H.U.; Ohnhaus, E. and Oesch, F.: activities of polycyclic hydrocarbon activating and inactivating enzymes in human lungs of smokers, non-smokers, lung-cancer and non-cancer patients. In: Mechanism of Toxic Action, on some Target Organs (eds. Chambers, P.L. and Günzel, P.), Springer-Verlag, Heidelberg, pp. 483-489, 1979.

b. Lorenz, J.; Schmassmann, H.U.; Ohnhaus, E. and Oesch, F.: Activities of polycyclic hydrocarbon activating and inactivating enzmes in human lungs of smokers, non-smokers, lung-cancer and non-cancer patients. Arch. Toxicol., Suppl. 2: 483-489, 1979.

77. Glatt, H.R.; Schwind, H.; Zajdela, F.; Croisy, A.; Jacquignon, P.C. and Oesch, F.: Mutagenicity of 43 structurally related heterocyclic compounds and its relationship to their carcinogenicity. Mutat. Res. 66: 307-328, 1979.

78. Glatt, H.R.; Ohlsson, A.; Agurell, S. and Oesch, F.: □1-Tetrahydrocannabinol and 1□,2□-epoxyhexahydrocannabinol: Mutagenicity investigation in the Ames test. Mutat. Res. 66: 329-335, 1979.

79. Bücker, M.; Glatt, H.R.; Platt, K.L.; Avnir, D.; Ittah, Y.; Blum, J. and Oesch, F.: Mutagenicity of phenanthrene and phenanthrene K-region derivatives. Mutat. Res. 66: 337-348, 1979.

80. Glatt, H.R.; Metzler, M. and Oesch, F.: Diethylstilbestrol and 11 derivatives: A mutagenicity study with Salmonella typhimurium. Mutat. Res. 67: 113-121, 1979.

81. Glatt, H.R.; Vogel, K.; Bentley, P. and Oesch, F.: Reduction of benzo[a]pyrene mutagenicity by dihydrodiol dehydrogenase. Nature 277: 319-320, 1979.

82. Stasiecki, P.; Waechter, F.; Bentley, P. and Oesch, F.: Distribution of polycyclic hydrocarbon metabolism - linked enzymes in specialized regions of the enodplasmic reticulum. Biochim. Biophys. Acta 568: 446-453, 1979.

83. Oesch, F.: Theorie der Krebsentstehung aus der Sicht des Toxikologen. Krebsgeschehen 3: 66-69, 1979.

84. Schmidt, W.; Beermann, D.; Oesch, F. and Jähnchen, E.: Differential effect of the enantiomers of phenprocoumon and warfarin on the vitamin K1-epoxide/vitamin K1 ratio in rat plasma. J. Pharm. Pharmac. 31: 490-491, 1979.

85. Bindel, U.; Sparrow, A.; Schmassmann, H.U.; Golan, M.; Bentley., P. and Oesch, F.: Endogenous role of epoxide hydratase: Development of a steroid epoxide hydratase assay and properties of the enzyme. Eur. J. Biochem. 97: 275-281, 1979.

86. Oesch, F.: Microsomal liver enzymes in the control of the formation and disposition of reactive metabolites. In: The Liver. Quantitative Aspects of Structure and Funktion. Proceedings of the 3rd International Gstaad Symposium (eds. Preisig, R.; Bircher, J. and Paumgartner, G.), Editio Cantor, Aulendorf, pp. 280-288, 1979.

87. Manatt, S.L.; Beermann, D. and Oesch, F.: On the potential carcinogenic and mutagenic character of benzobiphenylenes. Tetrahedron Lett. 1979: 3691-3694.

88. Rüdiger, W.; Haenisch, F.; Metzler, M.; Oesch, F. and Glatt, H.R.: Metabolites of diethylstilboestrol induce sister chromatid exchange in human cultured fibroblasts. Nature 281: 392-394, 1979.

89. Bücker, M.; Golan, M.; Schmassmann, H.U.; Glatt, H.R.; Stasiecki, P. and Oesch, F.: The epoxide hydratase inducer trans-stilbene oxide shifts the metabolic epoxidation of benzo[a]pyrene from the bay- to the K-region and reduces its mutagenicity. Mol. Pharmacol. 16: 656-666, 1979.

90. Bentley, P.; Waechter, F.; Oesch, F. and Stäubli, W.: Immunochemical localization of epoxide hydratase in rat liver: Effects of 2-acetylaminofluorene. Biochem. Biophys. Res. Commun. 91: 1101-1108, 1979.

91. Tunek, A. and Oesch, F.: Unique behaviour of benzene monoxygenase: Activation by detergent and different properties of benzene- and phenobarbital-induced monooxygenase activities. Biochem. Pharmacol. 28: 3425-3429, 1979.

92. Friedberg, T.; Bentley, P.; Stasiecki, P.; Glatt, H.R.; Raphael, D. and Oesch, F.: The identification, solubilization and characterisation of microsome-associated glutathione-S-transferases. J. Biol. Chem. 254: 12028-12033, 1979.

93. Oesch, F.; Bentley, P.; Platt, K.L. and Golan, M.D.: Enzymic hydration of benzene oxide: Assay and properties. Arch. Biochem. Biophys. 199: 538-544, 1980.

94. Oesch, F.; Sparrow, A.J. and Platt, K.L.: Radioactively labelled epoxides part II. (1) Tritium labelled cyclohexene oxide, trans-stilbene oxide and phenanthrene 9,10-oxide. J. Labelled Compd. Radiopharm. 17: 93-102, 1980.

95. Bock, K.W.; von Clausbruch, U.C.; Kaufmann, R.; Lilienblum, W. ; Oesch, F.; Pfeil, H. and Platt, K.: Functional heterogeneity of UDP-glucuronyltransferase in rat tissues. Biochem. Pharmacol. 29: 495-500, 1980.

96. Oesch, f. and Golan, M.: Specificity of mouse liver cytosolic epoxide hydrolase for K-region epoxides derived from polycyclic aromatic hydrocarbons. Cancer Lett. 9: 169-175, 1980.

97. Jung, R.; Bentley, P. and Oesch, F.: Influence of carbamazepine 10,11-oxide on drug metabolizing enzymes. Biochem. Pharmacol. 29: 1109-1112, 1980.

98a. Oesch, f.: Species differences in activating and inactivating enzymes related to in vitro mutagenicity mediated by tissue preparations from these species. In: Quantitative Aspects of Risk Assessment in Chemical Carcinogenesis (eds. Clemmesen, J.; Conning, D.M.; henschler, D. and Oesch, F.), Springer Verlag, Heidelberg, pp. 179-194, 1980.

98b. Oesch, f.: Species differences in activating and inactivating enzymes related to in vitro mutagenicity mediated by tissue preparations from these species. Arch. Toxicol., Suppl. 3: 179-194, 1980.

99. Oesch, F.: Epoxide hydratase. In: Microsomes, Drug Oxidations, and Chemical Carcinogenesis (eds. Coon, M.J.; Conney, A.H.; Estabrook, R.W.; Gelboin, H.V.; Gillette, J.R. and O'Brien, P.J.), Academic Press, New York, pp. 627-635, 1980.

100. Bentley, P.; Stasiecki, P.; Waechter, F.; Stäubli, W. and Oesch, F.: Epoxide hydratase and its membrane environment. In: Microsomes, Drug Oxidations, and chemical Carcinogenesis (eds. Coon, M.J.; Conney, A.H.; Estabrook, R.W.; Gelboin, H.V.; Gillette, J.R. and O'Brien, P.J.), Academic Press, New York, pp. 647-650, 1980.

101. Glatt, H.R.; Lorenz, J.; Fleischmann, R.; Remmer, H.; Ohnhaus, E.E.; Kaltenbach, E.; Tegtmeyer, F.; Rüdiger, H. and Oesch, F.: Interindividual variations of epoxide hydratase activity in human liver and lung biopsies, lymphocytes and fibroblast cultures. In: Microsomes, Drug Oxidations, and Chemical Carcinogenesis (eds. Coon, M.J.; Conney, A.H.; Estabrook, H.V.; Gelboin, H.V.; Gillette, J.R. and O'Brian, P.J.), Academic Press, New York, pp. 651-654, 1980.

102. Oesch, F.: Biochemistry of polycyclic aromatic hydrocarbons. VDI-Berichte 358: 251-256, 1980.

103. Oesch, F.; Tegtmeyer, F.; Kohl, F.-V.; Rüdiger, H. and Glatt, H.R.: Interindividual comparison of epoxide hydratase and glutathione S-transferase activities in cultured human fibroblasts. Carcinogenesis 1: 305-309, 1980.

104. Stasiecki, P.; Oesch, F.; Bruderer, G.; Jarasch, E.D. and Franke, W.W.: Distribution of enzymes involved in metabolism of polycyclic aromatic hydrocarbons among rat liver endomembranes and plasma membranes. Europ. J. Cell Biol. 21: 79-92, 1980.

105. Golan, M.D.; Schmassmann, H.U.; Bücker, M.; Raphael, D.; Jung, R.; Bindel, U.; Brase, H.D.; Tegtmeyer, F.; Friedberg, T.; Lorenz, J.; Stasiecki, P. and Oesch, F.: Characterization of dog hepatic drug metabolizing enzymes and resultant effects on benzo[a]pyrene metabolite pattern and mutagenicity. Drug Metab. Dispos. 8: 121-126, 1980.

106. Sparrow, A.J.; Bindel, U. and Oesch, F.: Radioactively labelled epoxides. Part III. Tritium labelled steroid 16□,17□-epoxides. J. Labelled Compd. Radiopharm. 17: 649-656, 1980.

107. Oesch, F.: Influence of foreign compounds on formation and disposition of reactive metabolites. In: Environmental Chemicals, Enzyme Function and Human Disease (eds. Connors, T.A. and Evered, D.C.), Excerpta Medica, Amsterdam, pp. 169-189, 1980.

108. Glatt, H.R.; Schwind, H.; Schechtmann, L.M.; Beard, S.; Kouri, R.E.; Zajdela, F.; Croisy, A.; Périn, F.; Jacquignon, P.C. and Oesch, f.: Mutagenicity of closely related carcinogenic and non-carcinogenic compounds using various metabolizing systems and target cells. In: Short-Term Test Systems for Detecting Carcinogens (eds. Norpoth, K. and Garner, R.C.), Springer Verlag, Heidelberg, pp. 103-126, 1980.

109. Ohlsson, A.; Agurell, S.; Glatt, H.R.; Bentley, P. and Oesch, F.: Investigation on the mutagenicity in the Ames test of 1□,2□-epoxyhexahydrocannabinol and its conversion by deactivating enzymes. Acta Pharm. Suec. 17: 189-198, 1980.

110. Oesch, F.: Significance of various enzymes in bioactivation and inactivation for toxic effects. In: 25 Jahre Pharmakokinetik (ed. Gladtke, H.), S. Fischer-Verlag, Frankfurt, pp. 75-81, 1980.

111. Glatt, H.R.; Kaltenbach, E. and Oesch, F.: Epoxide hydrolase activity in native and in mitogen-stimulated lymphocytes of various human donors. Cancer Res. 40: 2552-2556, 1980.

112. Oesch, F.: Microsomal epoxide hydrolase. In: Enzymatic Basis of Detoxication (ed. Jacoby, B.), a volume of Biochemical Pharmacology and Toxicology, Academic Press, New York, pp. 277-290, 1980.

113. Glatt, H.R.; Oesch, F. and Neumann, f.G.: Factors responsible for the metabolic formation and inactivation of bacterial mutagens from trans-4-acetylaminostilbene. Mutat. Res. 73: 237-250, 1980.

114. Oesch, f.; Clegg, J.C.S.; Billings, R.; Platt, K.L. and Glatt, H.R.: Enzymic control of reactive metabolites from aromatic carcinogens. In: Carcinogenesis: Fundamental Mechanisms and Environmental Effects (eds. Pullmann, B.; Ts‘o, P.O.P. and Gelboin, H.V.), Reidel, Dordrecht, Holland, pp. 167-177, 1980.

115. Glatt, H.R.; Platt, K.L.; Vogel, K.; Bücker, M.; Billings, R. and Oesch, F.: Metabolic inactivation of mutagenic benzo[a]pyrene metabolites: significance to carcinogenicity and implications for in vitro tests. In: Mechanisms of Toxicity and hazard Evaluation (eds. Holmstedt, B.; Lauwerys, R.; Mercier, M. and Roberfroid, M.), Elsevier/North-Holland Biomedical Press, pp. 181-186, 1980.

116. Schürer, C.C.; Bartram, C.R.; Glatt, H.R.; Kohl, F.V.; Mangels, W.; Oesch, F. and Rüdiger, H.W.: Benzo[a]pyrene 4,5-oxide: discrepancy between induction of sister chromatid exchanges and binding to DNA in cultured human fibroblasts. Biochim. Biophys. Acta 609: 272-277, 1980.

117. Trenk, D.; Beermann, D.; Oesch, F. and Jähnchen, E.: Age-dependent differences in the effect of phenprocoumon on the vitamin K1-epoxide cycle in rats. J. Pharm. Pharmacol. 32: 828-832, 1980.

118. Röhrborn, F.; Oesch, F. and Glatt, H.R.: Mutagenitätsuntersuchungen mit Antihypertensiva. In: Hypertonie (eds. Siegenthaler, W.; Vetter, W. and Schrey, A.), Verlag für angewandte Wissenschaften, Hypertonie-Workshop, Zürich, pp. 100-129, 1980.

119. Jonen, H.G.; Oesch, f. and Platt, K.L.: 4-Hydroxylation of nitrofurantoin in the rat: a 3-methylcholanthrene-inducible pathway of a relatively non-toxic compound. Drug Metab. Dispos. 8: 446-451, 1980.

120. Oesch, F.; Schmassmann, H.; Ohnhaus, E.; Althaus, U. and Lorenz, J.: Monooxygenase, epoxide hydrolase, and glutathione S-transferase activities in human lung. Variation between groups of bronchogenic carcinoma and non-cancer patients and interindividual differences. Carcinogenesis 1: 827-835, 1980.

121. Tunek, A.; Platt, K.L.; Przybylski, M. and Oesch, F.: Multi-step metabolic activation of benzene. Effect of superoxide dismutase on covalent binding to microsomal macromolecules, and identification of glutathione conjugates using high pressure liquid chromatography and field desorption mass spectrometry. Chem. Biol. Interactions 33: 1-17, 1980.

122. Vogel, K.; Bentley, P.; Platt, K.L. and Oesch, F.: Rat liver cytoplasmic dihydrodiol dehydrogenase: purification to apparent homogeneity and properties. J. biol. chem. 255: 9621-9625, 1980.

123. Glatt, H.R.; Billings, R.; Platt, K.L. and Oesch, F.: Improvement of the correlation of bacterial mutagenicity with carcinogenicity of benzo[a]pyrene and four of its major metabolites by activation with intact liver cells instead of cell homogenate. Cancer Res. 41: 270-277, 1981.

124. Peter, H.; Jung, R.; Bolt, H.M. and Oesch, F.: Norethisterone-4ß,5-oxide and laevonorgestrel-4ß,5-oxide: formation in rat liver microsomal incubations and interference with microsomal epoxide hydrolase and cytoplasmic glutathione S-transferase. J. Steroid Biochem. 14: 83-90, 1981.

125. Guenthner, T.M. and Oesch, f.: The effects of modulation of microsomal epoxide hydrolase activity on microsome-catalyzed activation of benzo[a]pyrene and its covalent binding to DNA. Cancer Lett. 11: 175-183, 1981.

126. Oesch, F.; Bücker, M. and Glatt, H.R.: Activation of phenanthrene to mutagenic metabolites and evidence for at least two different activation pathways. Mutat. Res. 81: 1-10, 1981.

127. Jung, R.; Beermann, D.; Glatt, H.R. and Oesch, F.: Mutagenicity of structurally related oxiranes: derivatives of benzene and its hydrogenated congeners. Mutat. Res. 81: 11-19, 1981.

128. Kuhlmann, W.d.; Krischan, R.; Kunz, W.; Guenthner, T.M. and Oesch, F.: Focal elevation of liver microsomal epoxide hydrolase in early preneoplastic stages and its behaviour in the further course of hepatocarcinogenesis. Biochem. Biophys. Res. Commun. 98: 417-423, 1981.

129. Guenthner, T. and Oesch, F.: Metabolic activation and inactivation of chemical mutagens and carcinogens. TIPS 2: 129-132, 1981.

130. Guenthner, T.M.; Hammock, B.D.; Vogel, U. and Oesch, F.: Cytosolic and microsomal epoxide hydrolases are immunologically distinguishable from each other in the rat and mouse. J. Biol. chem. 256: 3163-3166, 1981.

131. Platt, K.L. and Oesch, F.: Reductive cyclization of keto acids to polycyclic aromatic hydrocarbons by hydroiodic acid-red phosphorus. J. Org. Chem. 46: 2601-2603, 1981.

132. Périn, F.; dufour, M.; Mispelter, J.; Ekert, B.; Künneke, C.; Oesch, F. and Zajdela, F.: Heterocyclic polycyclic aromatic hydrocarbon carcinogenesis: 7H-dibenzo[c,g]carbazole metabolism by microsomal enzymes from mouse and rat liver. Chem.-Biol. Interactions 35: 267-284, 1981.

133. Bentley, P. and Oesch, F.: Enzymic mechanisms of oxidation, reduction and hydrolysis. In: Foreign Compound Metabolism in Mammals, Vol. 6 (ed. Hathway, D.E.), The Royal Society of Chemistry, Burlington House, London, pp. 64-110, 1981.

134. Glatt, H.R.; Vogel, K.; Bentley, P.; Sims, P. and Oesch, F.: Large differences in metabolic activation and inactivation of chemically closely related compounds: Effects of pure enzymes and enzyme induction on the mutagenicity of the twelve monomethylated benz[a]anthracenes, 7,12-dimethylbenz[a]anthracene and benz[a]anthracene in the Ames Test. Carcinogenesis 2: 813-821, 1981.

135. Guenthner, T. and Oesch, F.: Microsomal epoxide hydrolase and its role in polycyclic aromatic hydrocarbon biotransformation. In: Polycyclic Hydrocarbons and Cancer, Vol. 3 (eds. Gelboin, H. and Ts‘o, P.O.P.), Academic Press, New York, pp. 183-212, 1981.

136. Oesch, F.: Enzymic control of reactive metabolites derived from aromatic foreign compounds. Chimia 35: 405-406, 1981.

137. Lesca, P.; Guenthner, T.M. and Oesch, F.: Modulation of the covalent binding of aryl hydrocarbon metabolites to DNA in vitro after treatment of rats and mice with trans-stilbene oxide. Carcinogenesis 2: 1049-1056, 1981.

138. Guenthner, T.M.; Bentley, P. and Oesch, F.: Microsomal epoxide hydrolase. In: Detoxication and Drug Metabolism: Conjugation and Related Systems, Vol. 77 (ed. Jakoby, W.B.). Methods in Enzymology (eds.-in-chief, S.P. Colowick and N.O. Kaplan), Academic Press, New York, pp. 344-349, 1981.

139. Glatt, H.R.; de Balle, L. and Oesch, F.: Ethanol- or acetone-pretreatment of mice strongly enhances the bacterial mutagenicity of dimethylnitrosamine in assays mediated by liver subcellular fraction, but not in host-mediated assays. Carcinogenesis 2: 1057-1061, 1981.

140. Clegg, J.C.S.; Glatt, H.R. and Oesch, F.: Coordinate mutation and transformation of mouse fibroblasts: induction by nitroquinoline oxide and modulation by caffeine. Carcinogenesis 2: 1255-1259, 1981.

141. Oesch, f.; Puff, I. and Platt, K.L.: Purity of tritiated polycyclic aromatic hydrocarbons: Identification of (G-3H)-5,6-dihydrodibenz[a,h]anthracene as the major radioactive component in commercial (G-3H)-dibenz[a,h]anthracene. Anal. Biochem. 117: 208-212, 1981.

142. Oesch, F.; Beermann, D.; Sparrow, A.J.; Bentley, P. and Vogel-Bindel, U.: A highly sensitive assay for epoxide hydrolase using an endogenous epoxide as substrate: 16□,17□-epoxy-androst-4-en-3-one. Anal. biochem. 117: 223-230, 1981.

143. Bolt, H.M.; Filser, J.G.; Oesch, F.; Guenther, T.M.; Friedberg, T. and Bolt, M.: Metabolisierung von Vinylchlorid: Unterschiede zwischen Mensch und Versuchstier und ihre toxikologische Bedeutung. In: Epidemiologische Ansätze im Bereich der Arbeitsmedizin (eds. Schäcke, G. and Stollenz, E.), Gentner Verlag, Stuttgart, pp. 507-509, 1981.

144. Platt, K.L. and Oesch, F.: Synthesis of non-K-region ortho-quinones of polycyclic aromatic hydrocarbons from cyclic ketones. Tetrahydron Lett. 23: 163-166, 1982.

145. Waechter, F.; Bentley, P.; Germann, M.; Oesch, F. and Stäubli, W.: Immunoelectron-microscopic studies on the subcellular distribution of rat liver epoxide hydrolase and the effect of phenobarbitone and 2-acetaminofluorene treatment. Biochem. J. 202: 677-686, 1982.

146. Oesch, F.; Stillger, G.; Frank, H. and Platt, K.L.: Improved syntheses of (+)-trans-9,10-dihydroxy-9,10-dihydrobenzo[a]pyrene and of (+)-trans-1,2-dihydroxy-1,2-dihydrodibenz[a,h]anthracene. J. Org. Chem. 47: 568-571, 1982.

147. Okada, Y.; Frey, A.B.; Guenthner, T.M.; Oesch, F.; Sabatini, D.d. and Kreibich, G.: Studies on the biosynthesis of microsomal membrane proteins. site of synthesis and insertion of cytochrome b5, cytochrome b5 reductase, cytochrome P-450 reductase and epoxide hydrolase. Europ. J. Biochem. 122: 393-402, 1982.

148. Glatt, H.R.; Cooper, C.s.; Grover, P.L.; Sims, P.; Bentley, P.; Merdes, M.; Waechter, F.; Vogel, K.; Guenthner, T.M. and Oesch, F.: Inactivation of a diol-epoxide by dihydrodiol dehydrogenase, but not by two epoxide hydrolases. Science 215: 1507-1509, 1982.

149. Oesch, F.: Fate of epoxides. In: Advances in Experimental Medicine and Biology - Biological Reactive Intermediates-II, Chemical Mechanisms and Biological Effects (eds. Snyder, R.; Parke, D.V.; Kocsis, J.J.; Jollow, D.J.; Gibson, C.g. and Witmer, C.M.), Plenum Press, New York, pp. 39-52, 1982.

150. Tunek, A. and Oesch, f.: Multi-step metabolic activation of benzene in rat liver microsomes. In: Advances in Experimental Medicine and Biology - Biological Reactive Intermediates-II, chemical Mechanisms and Biological Effects (eds. Snyder, R.; Parke, D.V.; Kocsis, J.J.; Jollow, D.J.; Gibson, C.G. and Witmer, C.M.), Plenum Press, New York, pp. 319-329, 1982.

151. Guenthner, T. and Oesch, F.: Modulation of epoxide hydrolase activity; Effect on the activation of benzo[a]pyrene and its covalent binding to DNA in the nucleus. In: Advances in Experimental Medicine and Biology - Biological Reactive Intermediates-II, Chemical Mechanims and Biological Effects (eds. Snyder, R.; Parke, D.V.; Kocsis, J.J.; Jollow, D.J.; Gibson, C.G. and Witmer, C.M.), Plenum Press, New York, pp. 705-716, 1982.

152. Vogel, K.; Platt, K.L.; Petrovic, P.; Seidel, A. and Oesch, F.: Dihydrodiol dehydrogenase: substrate specificity, inducibility and tissue distribution. In: Proceedings of the 22nd congress of the European Society of Toxicology held in Dublin, Arch. Toxicol. Suppl. 5: pp. 360-364, 1982.

153. Guenthner, T.M.; Vogel-Bindel, U. and Oesch, F.: Identification and characterization of a novel epoxide hydrolase from mouse liver microsomes. In: Proceedings of the 22nd congress of the European Society of Toxicology held in Dublin, Arch. Toxicol. Suppl.5: pp. 365-367, 1982.

154. Oesch, F.; Friedberg, T.; Herbst, M.; Paul, W.; wilhelm, N. and Bentley, P.: Effects of lindane treatment on drug metabolizing enzymes and liver weight of CF-1 mice in which it evoked hepatomas and in non-susceptible rodents. Chem.-Biol. Interactions. 40: 1-14, 1982.

155. Platt, K.L. and Oesch, F.: K-region trans-dihydrodiols of polycyclic arenes; an efficient and convenient preparation from o-quinones or o-diphenols by reduction with sodium borohydride in the presence of oxygen. Synthesis, 459-462, 1982.

156. Oesch, F. and Doerjer, G.: Detection of N2,3-etheno guanine in DNA after treatment with chloroacetaldehyde in vitro. Carcinogenesis 3: 663-665, 1982.

157. Bentley, P. and Oesch, F.: Foreign compound metabolism in the liver. In: Progress in Liver Diseases, Vol. VII (eds. Popper, H. and Schaffner, F.), Grune & Stratton, New York, pp. 157-178, 1982.

158. Oesch, F.: The role of microsomal epoxide hydrolase in endogenous steroid metabolism. In: Microsomes, Drug Oxidations, and Drug Toxicity (eds. Sato, R. and Kato, R.), Japan Scientific Societies Press, Tokyo, pp. 327-333, 1982.

159. Glatt, H.R.; Friedberg, T.; Vogel, K.; Guenthner, T.M.; Oesch, F.; Cooper, C.S.; Grover, P.L.; Sims, P.; Waechter, F.; Merdes, M. and Bentley, P.: Effect of six highly-purified enzymes on the mutagenicity of a vicinal diol-epoxide and of the K-region oxide of benz[a]anthracene. In: Microsomes, Drug Oxidations, and Drug Toxicity (eds. Sato, R. and Kato, R.), Japan Scientific societies Press, Tokyo, pp. 537-538, 1982.

160. Platt, K.L.; Bücker, M.; Golan, M. and Oesch, F.: The mutagenicity of dibenz[a,h]anthracene activated by phenobarbital-inducible mouse liver monooxygenase is potentiated by the presence of hydrophilic residues at the K-region of the molecule. Mutat. Res. 96: 1-13, 1982.

161. Vogel-Bindel, U.; Bentley, P. and Oesch, F.: Endogenous role of microsomal epoxide hydrolase: ontogenesis, induction, inhibition, tissue distribution, immunological behaviour and purification of microsomal epoxide hydrolase with 16□,17□-epoxy-androstene-3-one as substrate. Europ. J. Biochem. 126: 425-431, 1982.

162. Seidegard, J.; DePierre, J.W.; Guenthner, T.M. and Oesch, f.: The influence of different effectors on microsomal epoxide hydrolase activity towards various substrates. In: Microsomes, Drug Oxidations, and Drug Toxicity (eds. Sato, R. and Kato, R.), Japan Scientific Societies Press, Tokyo, pp. 239-240, 1982.

163. Raphael, D.; Glatt, H.R.; Protic, M. and Oesch, F.: Effects of various enzyme inducers on monooxygenase, glutathione S-transferase and epoxide hydrolase activities in cultured hepatoma cells. Chem.-Biol. Interactions 42: 27-43, 1982.

164. Oesch, F.: Chemical carcinogenesis by polycyclic aromatic hydrocarbons. In: NATO ASI Life Sciences Series. Chemical Carcinogenesis (ed. Nicolini, C.), Plenum Press, New York, pp. 1-24, 1982.

165. Oesch, F.: Problems associated with the use of chemical class controls in absence of information on the underlying mechanism. In: NATO ASI Life Sciences Series: Chemical Carcinogenesis (ed. Nicolini, C.), Plenum Press, New York, pp. 67-70, 1982.

166. Gill, S.S.; Wie, S.I.; Guenthner, T.M.; Oesch, F. and Hammock, B.D.: Rapid and sensitive enzyme-linked immunosorbent assay for the microsomal epoxide hydrolase. Carcinogenesis 3: 1307-1310, 1982.

167. Seidegard, J.; DePierre, J.W.; Guenthner, T.M. and Oesch, F.: Topology of epoxide hydrolase in the membrane of the endoplasmic reticulum. Acta Chem. Scand. B36: 555-575, 1982.

168. Platt, K.L. and Oesch, f.: Synthesis and properties of the seven isomeric phenols of dibenz[a,h]anthracene. J. Org. Chem. 47: 5321-5326, 1982.

169. Oesch, F. and Guenthner, T.M.: Effects of the modulation of epoxide hydrolase activity on the binding of benzo[a]pyrene metabolites to DNA in intact nuclei. Carcinogenesis 4: 57-65, 1983.

170. Oesch, F.; Vogel-Bindel, U.; Guenthner, T.M.; Cameron, R. and Farber, E.: Characterization of microsomal epoxide hydrolase in hyperplastic nodules. Cancer Res. 43: 313-319, 1983.

171. Platt, K.L. and Oesch, F.: Efficient synthesis of non-K-region dihydrodiols of polycyclic aromatic hydrocarbons from o-quinones and catechols. J. Org. Chem. 48: 265-268, 1983.

172. Wolf, C.R. and Oesch, F.: Isolation of a high spin form of cytochrome P-450 induced in rat liver by 3-methylcholanthrene. Biochem. Biophys. Res. Commun. 111: 504-511, 1983.

173. Oesch, F.: Importance of enzymes involved in metabolic activation and inactivation. In: Short-Term Tests for Carcinogenesis, Quo Vadis? (eds. Mazue, G. and Roncucci, R.), Excerpta Medica, Amsterdam, pp. 186-205, 1983.

174. Oesch, F.: Chemisch ausgelöste Krebsentstehung. Robert Koch Stiftung Beiträge und Mitteilungen/Robert Koch Foundation Bulletin and Communications 5: 21-29, 1983.

175. Walker, C.H. and Oesch, F.: Enzymes in selective toxicity. In: Biological Basis of Detoxication (eds. Caldwell, J. and jakoby, W.B.), a volume of Biochemical Pharmacology and Toxicology, Academic Press, New York, pp. 349-368, 1983.

176. Pyerin, W.; Wolf, C.R.; Kinzel, V.; Kübler, D. and Oesch, F.: Phosphorylation of cytochrome-P-450-dependent monooxygenase components. Carcinogenesis 4: 573-576, 1983.

177. Oesch, F.; Zimmer, A. and Glatt, H.R.: Microsomal epoxide hydrolase in different rat strains. Biochem. Pharmacol. 32: 1783-1788, 1983.

178. Wolf, C.R.; Oesch, F.; Timms, C.W.; Guenthner, T.; Hartmann, R.; Maruhn, M. and Burger, R.: Use of monoclonal and polyclonal antibodies as structural and topographical probes for hepatic epoxide hydrolase. FEBS Lett. 157: 271-276, 1983.

179. Glatt, H.R.; Protic-Sabljic, M. and Oesch, F.: Mutagenicity of endogenous compounds, glutathione and cysteine, in the Ames test. Science 220: 961-963, 1983.

180. Oesch, F.; Protic-Sabljic, M.; Friedberg, T.; Klimisch, H.-J. and Glatt, H.R.: Vinylidene chloride: changes in drug-metabolizing enzymes, mutagenicity and relation to its targets for carcinogenesis. Carcinogenesis 4: 1031-1038, 1983.

181. Glatt, H.R.; Wölfel, T. and Oesch, F.: Determination of epoxide hydrolase activity in whole cells (human lymphocytes) and activation by benzoflavones. Biochem. Biophys. Res. Commun. 110: 525-529, 1983.

182. Oesch, F.; Milbert, U.; Friedberg, T. and Wolf, C.R.: Identification of novel glutathione S-transferases in kidney and lung and the inducibility of various isozymes in liver and other organs. In: Extrahepatic Drug Metabolism and Chemical Carcinogenesis (eds. Rydström, J.; Montelius, J. and Bengtsson, M.), Elsevier Biomedical Press, Amsterdam, pp. 163-170, 1983.

183. Glatt, H.r.; Jung, R. and Oesch, F.: Bacterial mutagenicity investigation of epoxides: drugs, drug metabolites, steroids and pesticides. Mutat. Res. 11: 99-118, 1983.

184. Ohnhaus, E.E.; Berger, W.; Duckert, F. and Oesch, F.: The influence of dimethylbiguanide on phenprocoumon elimination and its mode of action. Klin. Wochenschr. 61: 851-858, 1983.

185. Friedberg, T.; Milbert, U.; Bentley, P.; Guenthner, T.M. and Oesch, F.: Purification and characterization of a new cytosolic glutathione S-transferase (glutathione S-transferase X) from rat liver. Biochem. J. 215: 617-625, 1983.

186. Glatt, H.R.; Friedberg, T.; Grover, P.L.; Sims, P. and Oesch, F.: Inactivation of a diol-epoxide and a K-region epoxide by glutathione S-transferases: High efficiency of the new form X. Cancer Res. 43: 5713-5717, 1983.

187. Oesch, F.; Sparrow, A.J. and Platt, K.L.: Radioactively labelled epoxides. Part IV. Tritium labelled □- and ß-methyl styrene oxides. J. Lab. Comp. Radiopharm. 20: 1297-1303, 1983.

188. Oesch, F.: Drug detoxification: Epoxide hydrolase. In: Development Pharmacology (ed. MacLeod, S.), Allan R. Liss, New York, pp. 81-105, 1983.

189. Guenthner, T.M. and Oesch, F.: Identification and characterization of a new epoxide hydrolase from mouse liver microsomes. J. biol. chem. 258: 15054-15061, 1983.

190. Frey, A.B.; Friedberg, T.; Oesch, F. and Kreibich, G.: Studies on the subunit composition of rat liver glutathione S-transferases. J. Biol. Chem. 258: 11321-11325, 1983.

191. Oesch, F.: chemische Umwelt - zwischen Furcht und Sicherheit. In: Genetische Herkunft und Zukunft des Menschen (ed. Passarge, E.), Verlag Chemie, Weinheim, pp. 121-130, 1984.

192. Oesch, F.: Scope of the application of the biochemical basis of chemical carcinogenesis towards a more rational risk estimation. In: Biochemical Basis of Chemical Carcinogenesis (eds. Greim, H.; Jung, R.; Kramer, M.; Marquardt, H. and Oesch, F.), Raven Press, New York, pp. 1-3, 1984.

193. Oesch, F.; Glatt, H.R.; Vogel, K.; Seidel, A.; Petrovic, P. and Platt, K.L.: Dihydrodiol dehydrogenase: A new level of control by both sequestration of proximate and inactivation of ultimate carcinogens. In: Biochemical Basis of Chemical Carcinogenesis (eds. Greim, H.; Jung, R.; Kramer, M.; Marquardt, H. and Oesch, F.), Raven Press, New York, pp. 23-31, 1984.

194. Glatt, H.R.; Mertes, I.; Wölfel, T. and Oesch, F.: Epoxide hydrolase in laboratory animals and in man. In: Biochemical Basis of Chemical Carcinogenesis (eds. Greim, H.; jung, R.; Kramer, M.; Marquardt, H. and Oesch, F.), Raven Press, New York, pp. 107-121, 1984.

195. Oesch, F.; Timms, C.W.; Walker, C.H.; Guenthner, T.M.; Sparrow, A.; Watabe, T. and Wolf, C.R.: Existence of multiple forms of microsomal epoxide hydrolase with radically different substrate specifities. Carcinogenesis 5: 7-9, 1984.

196. Wolf, C.R.; Buchmann, A.; Friedberg, T.; Moll, E.; Kuhlmann, W.D.; Kunz, H.W. and Oesch, F.: Dynamics of the localisation of drug metabolising enzymes in tissues and cells. Biochem. Soc. Transact. 12: 60-62, 1984.

197. Oesch, F.: Detoxication and toxication of foreign compounds. Fresenius Z. Anal. Chem. 317: 643-644, 1984.

198. Doerjer, G.; Bedell, m.A. and Oesch, f.: DNA adducts and their biological relevance. In: Mutations in Man (ed. Obe, G.), Springer Verlag, Heidelberg, pp. 20-34, 1984.

199. Wörner, W. and Oesch, F.: Identity of dihydrodiol dehydrogenase and 3□-hydroxysteroid dehydrogenase in rat but not in rabbit liver cytosol. FEBS Lett. 170: 263-267, 1984.

200. Glatt, H.R. and Oesch, F.: Variations in epoxide hydrolase activities in human liver and blood. In: Banbury Report 16: Genetic Variability in Responses to Chemical Exposure. Cold Spring Harbor Laboratory, pp. 189-203, 1984.

201. Wolf, C.R.; Moll, E.; Friedberg, T.; Oesch, F.; Buchmann, A.; Kuhlmann, W.D. and Kunz, H.W.: Characterization, localization and regulation of a novel phenobarbital-inducible form of cytochrome P450, compared with three further cyt. P450-isoenzymes, NADPH cyt. P450-reductase, glutathione transferases and microsomal epoxide hydrolase. Carcinogenesis 5: 993-1001, 1984.

202. Glatt, H.R. and Oesch, F.: Metabolizing systems used in mutagenicity tests and their significance. In: Critical Evaluation of Mutagenicity Tests (eds. Baß, R.; Glocklin, V.; Grosdanoff, P.; Henschler, D.; Kilbey, B.; Müller, D. and Neubert, D.), MMV Medizin Verlag, München, pp. 399-420, 1984.

203. Oesch, F.: Relationship between transformation and mutation in cells in culture. In: Critical Evaluation of Mutagenicity Tests (eds. Baß, R.; Glocklin, V.; Grosdanoff, P.; Henschler, D.; Kilbey, B.; Müller, D. and Neubert, D.), MMV Medizin Verlag, München, pp. 485-488, 1984.

204a. Oesch, F.: Metabolism of carcinogens, possibilities for modulation. In: Modifiers of Tumorigenesis (ed. thorling, E.B.), Munksgaard, Copenhagen, pp. 15-33, 1984.

204b. Oesch, F.: Metabolism of carcinogens, possibilities for modulation. Acta Pharmacol. Toxicol. 55, Suppl. II: 15-33, 1984.

205. Lorenz, J.; Glatt, H.R.; Fleischmann, R.; Ferlinz, R. and Oesch, F.: Drug metabolism in man and its relationship to that in three rodent species: Monooxygenase, epoxide hydrolase and glutathione S-transferase activities in subcellular fractions of lung and liver. Biochem. Med. 32: 43-56, 1984.

206. Borm, P.J.A.; Kroon, M.; Noordhoek, J.; Platt, K.L. and Oesch, F.: Dose dependent activation of rat small intestinal monooxygenase-activity towards benzo[a]pyrene and 7-ethoxycoumarin after oral pretreatment with cimetidine. Res. Commun. Chem. Pathol. Pharmacol. 44: 99-111, 1984.

207. Pyerin, W.; Taniguchi, H.; Stier, A.; Oesch, F. and Wolf, C.R.: Phosphorylation of rabbit liver cytochrome P-450 LM2 and its effect on monooxygenase activity. Biocem. Biophys. Res. Commun. 122: 620-626, 1984.

208. Batt, A.; Siest, G. and Oesch, F.: Differential regulation of two microsomal epoxide hydrolases in hyperplastic nodules from rat liver. Carcinogenesis 5: 1205-1206, 1984.

209. Beermann, D.; Petrovic, P.; Seidel, A. and Oesch, F.: A facile microsynthesis of 14C-labelled picene. J. Lab. Comp. Radiopharm. XXI: 781-787, 1984.

210. Timms, C.; Oesch, F.; Schladt, L. and Wörner, W.: Multiple forms of epoxide hydrolase. In: Proceedings of the 9th International Congress of Pharmacology (eds. Mitchell, J.F.; Paton, W. and turner, P.), Macmillan press, London, pp. 231-237, 1984.

211. Glatt, H.R.; Utesch, D. and Oesch, F.: Hepatocyte- but not S9-mediated mutagenicity correlates with the carcinogenicity of methylbenz[a]anthracenes. In: Polynuclear Aromatic Hydrocarbons: Chemistry and Biology (eds. Cooke, M. and Dennis, A.J.), Batelle Press, Columbus, Ohio, pp. 475-484, 1984.

212. Glatt, H.R.; Yona, I.; Ben-Shoshan, S.; Jerushalmy, P.; Blum, J. and Oesch, F.: Exceptionally potent mutagenicity in bacterial and mammalian cells by aziridines derived from polycyclic aromatic hydrocarbons. In: Polynuclear Aromatic Hydrocarbons: Chemistry and Biology (eds. Cooke, M. and Dennis, A.J.), Batelle Press, Columbus, Ohio, pp. 485-496, 1984.

213. Glatt, H.R.; Utesch, D.; Turchi, G.; Doerjer, G. and Oesch, F.: Hepatocytes as metabolizing system in bacterial mutagenicity tests. In: Max von pettenkofer-Berichte, pp. 13-32, 1984.

214. Oesch, F.: Significance of various enzymes in the control of mutagenic and carcinogenic metabolites derived from aromatic structures. In: Toxicologic Pathology, vol. 12: Chemical Carcinogenesis: Xenobiotics and Biotransformation (Proceedings of the Second International Symposium), pp. 391-396, 1984.

215. Oesch, F.: Metabolism of genotoxic agents: Control of reactive epoxides by hydrolase and transferase reactions. In: Proceedings of the International Seminar on Methods of Monitoring Human Exposure to Carcinogenic and Mutagenic Agents held in Espoo, Finland, 12.-15. December 1983 (eds. Hemminki, K.; Henschler, D.; Lauwerys, R.; Legator, M.; Saracci, R.; Sorsa, M. and Vainio, H.), International Agency for Research on Cancer, Lyon, pp. 73-83, 1984.

216. Amelizad, Z.; Narbonne, J.-F. and Oesch, F.: Nutritional influence on some cytochrome P-450 characteristics. Biochem. Pharmacol. 34: 383-384, 1985.

217. Mertes, I.; Fleischmann, R. and Oesch, F.: Interindividual variations in the activities of cytosolic and microsomal epoxide hydrolase in human liver. Carcinogenesis 6: 219-223, 1985.

218. Glatt, H.R. and Oesch, F.: Activation of N-acetoxy- and N-hydroxy-2-acetylaminofluorene to mutagenic and cytotoxic metabolites by V79 Chinese hamster cells. Mutat. Res. 149: 265-269, 1985.

219. Buchmann, A.; Kuhlmann, W.D.; Schwarz, M.; Kunz, H.W.; Wolf, C.R.; Moll, E.; Friedberg, T. and Oesch, F.: Regulation and expression of four cytochrome P-450 isoenzymes, NADPH-cytochrome P-450 reductase, the glutathione transferases B and C and microsomal epoxide hydrolase in preneoplastic and neoplastic lesions in rat liver. Carcinogenesis 6: 513-521, 1985.

220. Robertson, L.W.; Regel, U.; Filser, J.G. and Oesch, F.: Absence of lipid peroxidation as determined by ethane exhalation in rats treated with 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Arch. Toxicol. 57: 13-16, 1985.

221. Oesch, F.: Erfassung von Mutationen in Bakterien und deren Relevanz für den Säuger. Swiss Chem. 7: 66-67, 1985.

222. Glatt, H.R.; Bücker, M.; Platt, K.L. and Oesch, F.: Host-mediated mutagenicity experiments with benzo[a]pyrene and two of its metabolites. Mutat. Res. 156: 163-169, 1985.

223. Liptay-Reuter, I.; Dose, K.; Guenthner, T.; Wörner, A. and Oesch, F.: Vitamin K epoxide reductase activity in the metabolism of epoxides. Biochem. Pharmacol. 34: 2617-2620, 1985.

224. Glatt, H.R.; Ludewig, G.; Platt, K.L.; Yona, I.; Ben-Shoshan, S.; Jerushalmy, P.; Blum, J. and Oesch, F.: Arene imines, a new class of exceptionally potent mutagens in bacterial and mammalian cells. Cancer Res. 45: 2600-2607, 1985.

225. Oesch, f.: Enzymic control of metabolically produced epoxides. In: Microsomes and Drug Oxidations, Proceedings of the 6th International Symposium, Brighton, 6-10 August 1984 (eds. Boobis, A.R.; Caldwell, J.; De Matteis, F. and Elcombe, C.R.), Taylor and Francis, London, pp. 178-189, 1985.

226. Klein, J.; Milbert, U. and Oesch, F.: Was wissen wir heute über chemisch ausgelöste Krebsentstehung? In: Wirkstoffe im Zellgeschehen (ed. Böger, P.), Konstanzer Bibliothek, Band 1, Universitätsverlag, Konstanz, pp. 33-54, 1985.

227a. Wolf, C.r.; Hartmann, R.; Oesch, f. and Adams, D.J.: Regulation and multiplicity of drug metabolising enzymes in tissues and cells In: Drug Metabolism Molecular Approaches and Pharmacological Implications (ed. Siest, G.), Pergamon Press, Oxford, pp. 121-130, 1985.

227b. Wolf, C.R.; Hartmann, R.; Oesch, F. and Adams, D.J.: Regulation and multiplicity of drug metabolising enzymes in tissues and cells. Biochem. Pharmacol. Suppl. 1: 121-130, 1985.

228. Wieser, R.J.; Heck, R. and Oesch, F.: Involvement of plasma membrane glycoproteins in the contact-dependent inhibition of growth of human fibroblasts. Exp. Cell Res. 158: 493-499, 1985.

229. Glatt, H.R. and Oesch, F.: Mutagenicity of cysteine and penicillamine and its enantiomeric selectivity. Biochem. Pharmacol. 34: 3725-3728, 1985.

230. Schramm, H.; Robertson, L.W. and Oesch, F.: Differential regulation of hepatic glutathione transferase and glutathione peroxidase activities in the rat. Biochem. Pharmacol. 34: 3735-3739, 1985.

231. Nishihara, Y.; Robertson, L.W.; Oesch, F. and Utsumi, K.: Interaction of tetrachlorobiphenyls with isolated rat liver mitochondria. J. Pharmacobio-Dyn. 8: 726-732, 1985.

232. Manschreck, A.; Pustet, N.; Robertson, L.W.; Oesch, F. and Püttmann, M.: Enantiomers of polychlorinated biphenyls - Semipreparative enrichment by liquid chromatography. Liebigs Ann. Chem., 2101-2103, 1985.

233. Bochnitschek, W.; Seidel, A.; Kunz, H. and Oesch, F.: Reactive metabolites of carcinogenic polycylic hydrocarbons: synthesis and trapping reaction of 9-hydroxybenzo[a]pyrene 4,5-oxide. Angew. Chem. Int. Ed. Engl. 24: 699-700, 1985.

234. Oesch, F.; Bentley, P.; Golan, M. and Stasiecki, P.: Metabolism of benzo[a]pyrene by subcellular fractions of rat liver: evidence for similar patterns of cytochromes P-450 in rough and smooth endoplasmic reticulum but not in nuclei and plasma membrane. Cancer Res. 45: 4838-4843, 1985.

235. Glatt, H.R.; Halfer-Wirkus, H.; Herborn, J.; Lehrbach, E.; Löffler, S.; Porn, W.; Setiabudi, F.; Wölfel, T.; Gemperlein-Mertes, I.; Doerjer, G. and Oesch, F.: Interindividual variations in epoxide-detoxifying enzymes. In: Familial Cancer, 1st Int. Res. Conf. (eds. Müller and Weber), Karger, Basel, pp. 242-247, 1985.

236. Adams, D.J.; Seilman, S.; Amelizad, Z.; Oesch, F. and Wolf, R.C.: Identification of human cytochromes P-450 analogous to forms induced by phenobarbital and 3-methylcholanthrene in the rat. Biochem. J. 232: 869-876, 1985.

237. Glatt, H.R. and Oesch, F.: Propyldazine is mutagenic in Salmonella typhimurium and Escherichia coli: Distinct specificity for strains TA1537 and TA97. Teratog. Carcinog. Mutagen. 5: 339-345, 1985.

238. Renauer, D.; Oesch, F.; Kinkel, J.; Unger, K.K. and Wieser, R.J.: Fractionation of membrane proteins on immobilized lectins by high-performance liquid affinity chromatography. Anal. biochem. 151: 424-427, 1985.

239. Hodgson, R.M.; Seidel, A.; Bochnitschek, W.; Glatt, H.R.; Oesch, F. and Grover, P.L.: The formation of 9-hydroxychrysene-1,2-diol as an intermediate in the metabolic activation of chrysene. Carcinogenesis 6: 135-139, 1985.

240. Adams, D.J.; Oesch, F.; Hartmann, R. and Wolf, C.R.: Induction and suppression of cytochromes P-450 in rat tissues. Biochem. Soc. Transact. 13: 358, 1985.

241. Ishikawa, T.; Milbert, U.; Oesch, F. and Sies, H.: The major isozyme of rat cardiac glutathione transferases. Its correspondence to hepatic transferase X. Eur. J. Biochem. 154: 299-305, 1986.

242. Walker, C.H.; Timms, C.W.; Wolf, C.R. and Oesch, F.: The hydration of sterically hindered epoxides by epoxide hydrolase of the rat and rabbit. Biochem. Pharmacol. 35: 499-503, 1986.

243. Oesch, F.; Steinberg, P.; Lafranconi, M. and Glatt, H.R.: The role of liver parenchymal and non-parenchymal cells in the control of mutagenic and carcinogenic metabolites. Editorial. Falk´s Hepatology No. 3: VII-XIV, 1986.

244. Frei, E.; Pool, B.L.; Glatt, H.R.; Gemperlein-Mertes, I.; Oesch, F.; Schlehofer, J.R.; Schmezer, P.; Weber, H. and Wiessler, M.: Determination of DNA single strand breaks and selective DNA amplification by N-nitrodimethylamine and analogs, and estimation of the indicator cells´ metabolic capacities. J. Cancer Res. Clin. Oncol. 111: 123-128, 1986.

245. Oesch, F.: Enzymatic control of reactive metabolites. In: Colleque International, INSERM - Université - CNRS, Hepatotoxicité Médicamenteuse (ed. Fillastre, J.P.), Rouen, pp. 199-207, 1986.

246. Glatt, H.R. and Oesch, F.: Structural and metabolic parameters governing the mutagenicity of polycyclic aromatic hydrocarbons. In: Chemical Mutagens: Principles and Methods for Their Detection, Vol. 10 (ed. de Serres, F.J.), Plenum Publishing Corporation, New York, pp. 73-127, 1986.

247. Wermuth, B.; Platt, K.L.; Seidel, A. and Oesch, F.: Carbonyl reductase provides the enzymatic basis of quinone detoxication in man. Biochem. Pharmacol. 35: 1277-1282, 1986.

248. Oesch, f.: Mechanisms in chemical carcinogenesis: Enzymatic control of reactive metabolites. Cancer Lett. 30: 22-24, 1986.

249. Mönig, J.; Asmus, K.-D.; Robertson, L.W. and Oesch, F.: Polychlorinated biphenyl radical cations: A pulse radiolysis investigation. J. Chem. Soc. Perkin Trans. II: 891-896, 1986.

250. Lafranconi, W.M.; Glatt, H.R. and Oesch, F.: Xenobiotic metabolizing enzymes of rat liver nonparenchymal cells. Toxicol. Appl. Pharmacol. 84: 500-511, 1986.

251. Oesch, F.; Lafranconi, M. and Glatt, H.R.: Role of parenchymal versus non-parenchymal cells in the control of biologically reactive intermediates. Adv. Exp. Med. Biol. 197: 53-61, 1986.

252. Oesch, F.; Schladt, L.; Hartmann, R.; Timms, C. and Wörner, W.: Rat cytosolic epoxide hydrolase. Adv. Exp. Med. Biol. 197: 195-201, 1986.

253. Glatt, H.R.; Oesch, F. and Neumann, H.-G.: V79 chinese hamster cells deacetylate trans-N-acetoxy-4-acetylaminostilbene and trans-N-hydroxy-4-acetylaminostilbene to mutagenic and cytotoxic metabolites. Cell Biol. Toxicol. 2: 213-221, 1986.

254. Oesch, F.: Short-term and long-term modulation of the enzymatic control of mutagenic and carcinogenic metabolites. In: Genetic Toxicology of Environmental Chemicals, Part A: Basic Principles and Mechanisms of Action (eds. Ramel, C.; Lambert, B. and Magnusson, J.), Alan R. Liss, Inc., pp. 495-506, 1986.

255. Wieser, R.J. and Oesch, F.: Contact inhibition of growth of human diploid fibroblasts by immobilized plasma membrane glycoproteins. J. Cell Biol. 103: 361-367, 1986.

256. Amelizad, Z.; Narbonne, J.-F.; Daubeze, M.; Bonnamour, D. and Oesch, F.: Monooxygenase activity of systems reconstituted with fractions from rats fed standard and low protein diets. Biochem. Pharmacol. 35: 3169-3171, 1986.

257. Glatt, H.R.; Seidel, A.; Bochnitschek, W.; Marquardt, H.; Marquardt, H.; Hodgson, R.M.; Grover, P.L. and Oesch, F.: Mutagenic and cell-transforming activities of triol-epoxides as compared to other chrysene metabolites. Cancer Res. 46: 4556-4565, 1986.

258. Oesch, F.; Adler, S.; Rettelbach, R. and Doerjer, G.: Repair of etheno DNA adducts by N-glycosylases. In: The Role of Cyclic Nucleic Acid Adducts in Carcinogenesis and Mutagenesis (eds. Singer, B. and Bartsch, H.), IARC Scientific Publications No. 70, International Agency for Research on Cancer, Lyon, pp. 373-379, 1986.

259. Doerjer, G.; Nies, E.; Mertes, I. and Oesch, F.: Three-dimensional fluorometry for the detection of DNA adducts. In: The Role of Cyclic Nucleic Acid Adducts in Carcinogenesis and Mutagenesis (eds. Singer, B. and Bartsch, H.), IARC Scientific Publications No. 70, International Agency for Resarch on Cancer, Lyon, pp. 419-424, 1986.

260. Oesch, F.: Zur aktuellen Mutagenitätstestung und über Trends. In: Aktuelle Probleme der Biomedizin (eds. Burger, O.K.; Grosdanoff, P.; Henschler, D.; Kraupp, O. and Schnieders, B.), Walter de Gruyter & Co., Berlin - New York, pp. 191-198, 1986.

261. Seidegard, J.; DePierre, J.W.; Guenthner, T.M. and Oesch, F.: The effects of metyrapone, chalcone epoxide, benzil, clotrimazole and related compounds on the activity of microsomal epoxide hydrolase in situ, in purified form and in reconstituted systems towards different substrates. Eur. J. Biochem. 159: 415-423, 1986.

262. Schladt, L.; Wörner, W.; Setiabudi, F. and Oesch, F.: Distribution and inducibility of cytosolic epoxide hydrolase in male Sprague-Dawley rats. Biochem. Pharmacol. 35: 3309-3316, 1986.

263. Buchmann, A.; Kunz, W.; Wolf, C.r.; Oesch, F. and Robertson, L.W.: Polychlorinated biphenyls, classified as either phenobarbital- or 3-methylcholanthrene-type inducers of cytochrome P-450, are both hepatic tumor promoters in diethylnitrosamine-initiated rats. Cancer Lett. 32: 243-253, 1986.

264. Platt, K.L.; Utesch, D.; Gemperlein-Mertes, I.; Glatt, H.R. and Oesch, F.: Metabolizing systems in short-term in vitro tests for carcinogenicity. Fd. Chem. toxic. 24: 721-729, 1986.

265. Hodgson, R.M.; Weston, A.; Seidel, A.; Bochnitschek, W.; Glatt, H.R.; Oesch, F. and Grover, P.L.: Metabolism of chrysene to triols and a triol-epoxide in mouse skin and rat liver preparations. In: Polynuclear Aromatic Hydrocarbons: Chemistry, Characterization and Carcinogenesis (eds. Cooke, M. and Dennis, A.J.), Battelle Press, Columbus (Ohio), pp. 387-399, 1986.

266. Glatt, H.R.; Seidel, A.; Bochnitschek, W.; Marquardt, H.; Marquardt, H.; Hodgson, R.M.; Grover, P.L. and Oesch, F.: Mutagenicity in bacterial and mammalian cells of diol-epoxides, triol-epoxides and other metabolites of chrysene. In: Polynuclear Aromatic Hydrocarbons: Chemistry, Characterization and Carcinogenesis (eds. Cooke, M. and Dennis, A.J.), Battelle Press, Columbus (Ohio) pp. 343-358, 1986.

267. Nishihara, Y.; Robertson, L.W.; Oesch, F. and utsumi, K.: The effects of tetrachlorobiphenyls on the electron transfer reaction of isolated rat liver mitochondria. Life Sci. 38: 627-635, 1986.

268. Phillips, D.H.; Glatt, H.R.; Seidel, A.; Bochnitschek, W.; Oesch, f. and Grover, P.L.: Mutagenic potential and DNA adducts formed by diol-epoxides, triol-epoxides and K-region epoxide of chrysene in mammalian cells. Carcinogenesis 7: 1739-1743, 1986.

269. Hodgson, R.M.; Seidel, A.; Bochnitschek, W.; Glatt, H.R.; Oesch, F. and Grover, P.L.: Metabolism of the bay-region diol-epoxide of chrysene to a triol-epoxide and the enzyme-catalysed conjugation of these epoxides with glutathione. Carcinogenesis 7: 2095-2098, 1986.

270. Azais, V.; Pascal, G.; Arand, M.; Oesch, F. and Robertson, L.W.: Effects of congeneric polychlorinated biphenyls on liver and kidney retinoid levels. Chemosphere 15: 1905-1908, 1986.

271. Püttmann, M.; Oesch, F.; Robertson, L.W. and Manschreck, A.: Characteristics of polychlorinated biphenyl (PCB) atropisomers. Chemosphere 15: 2061-2064, 1986.

272. Mertes, I.; Glatt, H.R. and Oesch, F.: Methodenentwicklung zur Prüfung von kanzerogenen und mutagenen Stoffen mit metabolisch aktiven Zellen in Kultur. In: Schriftenreihe des

Bundesministeriums für Forschung und Technologie: Carcinogenese, Mutagenese, Teratogenese, Nr. ISBN 3-88135-171-X, pp. 32-40, 1986.

273. Glatt, H.R.; Robertson, L.W.; Arand, M.; Rauch, P.; Schramm, H.; Setiabudi, F.; Pöchlauer, P.; Müller, E.P. and Oesch, F.: cis- and trans-1,2-diphenylaziridines: Induction of xenobiotic-metabolizing enzymes in rat liver and mutagenicity in Salmonella typhimurium. Arch. Toxicol. 59: 242-248, 1986.

274. Glatt, H.R.; Shtelzer, S.; Sheradsky, T.; Blum, J. and Oesch, F.: Mutagenicity of N-substituted phenanthrene 9,10-imines in Salmonella typhimurium and Chinese hamster V79 cells. Environ. Mutagenesis 8: 829-837, 1986.

275. Schollmeier, M.; Frank, H.; Oesch, F. and Platt, K.L.: Assignment of absolute configuration to metabolically formed trans-dihydrodiols of dibenz[a,h]-anthracene by two distinct spectroscopic methods. J. Org. Chem. 51: 5368-5372, 1986.

276. Milbert, U.; Wörner, W. and Oesch, F.: Characterization of rat hepatic and renal glutathione S-transferases. In: Primary Changes and Control Factors in Carcinogenesis (eds. Friedberg, T. and Oesch, F.), Deutscher Fachschriften-Verlag, Wiesbaden, pp. 14-21, 1986.

277. Steinberg, P.; Lafranconi, W.M.; Buchmann, A.; Schwarz, M.; Kunz, W.D. and Oesch, F.: Biochemical and immunocytochemical evidences for the presence of drug metabolizing enzymes in rat liver Kupffer and endothelial cells. In: Primary Changes and Control Factors in Carcinogenesis (eds. Friedberg, T. and Oesch, F.), Deutscher Fachschriften-Verlag, Wiesbaden, pp. 22-25, 1986.

278. Schwarz, M.; Buchmann, A.; Pearson, D.; Peres, G.; Schael, S.; Kuhlmann, W.d.; Kunz, H.w.; Wolf, C.R. and Oesch, F.: Alterations in gene expression in preneoplastic and neoplastic hepatic lesions. In: Primary Changes and Control Factors in Carcinogenesis (eds. Friedberg, T. and Oesch, F.), Deutscher Fachschriften-Verlag, Wiesbaden, pp. 102-106, 1986.

279. Ansprach, B.; Inthoff, H.; Renauer, D.; Kinkel, J.N.; Kunz, H.; Oesch, F.; Unger, K.K. and Wieser, R.: Development of HPLC methods for the analysis and isolation of plasma membrane proteins. In: primary Changes and Control Factors in Carcinogenesis (eds. Friedberg, T. and Oesch, F.), Deutscher Fachschriften-Verlag, Wiesbaden, pp. 126-129, 1986.

280. Wolf, C.R.; Seilman, S.; Oesch, F.; Mayer, R.T. and Burke, M.D.: Multiple forms of cytochrome p-450 related to forms induced marginally by phenobarbital. Biochem. J. 240: 27-33, 1986.

281. Glatt, H.R. and Oesch, F.: Species differences in enzymes controlling reactive epoxides. In: Mouse Liver Tumors (eds. Chambers, P.L.; Henschler, D. and Oesch, F.) Arch. Toxicol., Suppl. 10: 111-124, 1987.

282. Steinberg, P.; Lafranconi, W.M. and Oesch, F.: The distribution of carcinogen metabolizing enzymes in the mouse liver: comparison of parenchymal and non-parenchymal cell populations. In: Mouse Liver Tumors (eds. Chambers, P.L.; Henschler, D. and Oesch, F.), Arch. Toxicol., Suppl. 10: 148-156, 1987.

283. Oesch, F.; Aulmann, W.; Platt, K.L. and Doerjer, G.: Individual differences in DNA repair capacities in man. In: Mouse Liver Tumors (eds. Chambers, P.L.; Henschler, D. and Oesch, F.), Arch. Toxicol., Suppl. 10: 172-179, 1987.

284. Schladt, L.; Hartmann, R.; Timms, C.; Strolin-Benedetti, M.; Dostert, R.; Wörner, W. and Oesch, F.: Concomitant induction of cytosolic but not microsomal epoxide hydrolase with peroxisomal ß-oxidation by various hypolipidemic compounds. biochem. Pharmacol. 36: 345-351, 1987.

285. Glatt, H.r.; Faigle, J.W. and Oesch, F.: Tricyclic drugs: potent mutagenicity of traces of a nitroarene formed in the reaction of opipramol with nitrite. Mutat. Res. 190: 7-11, 1987.

286. Oesch, F.: Mechanisms in chemical carcinogenesis: Enzymatic control of reactive metabolites. In: Concepts and Theories in Carcinogenesis (eds. Maskens, A.P.; Ebbesen, P. and burny, A.), Excerpta Medica, Amsterdam - New York - Oxford, pp. 53-63, 1987.

287. Janik-Schmitt, B.; Oesch, F. and Wieser, R.J.: Immobilized glycolipids from human diploid fibroblasts inhibit DNA synthesis of cultured human fibroblasts. Exp. Cell Res. 169: 15-24, 1987.

288. Turchi, G.; Glatt, H.R.; Doerjer, G. and Oesch, F.: A benzo[a]pyrene metabolite-DNA adduct occurring in the activating cell but not in exogenous DNA. Mutat. Res. 190: 31-34, 1987.

289. Utesch, D.; Glatt, H.R. and Oesch, F.: Rat hepatocyte-mediated bacterial mutagenicity in relation to the carcinogenic potency of benzo[a]anthracene, benzo[a]pyrene, and twenty-five methylated derivatives. Cancer Res. 47: 1509-1515, 1987.

290. Glatt, H.r.; Eich, E.; Pertz, H.; Becker, C. and Oesch, F.: Mutagenicity experiments on agroclavines, new natural antineoplastic compounds. Cancer Res. 47: 1811-1814, 1987.

291. Pyerin, W.; Taniguchi, H.; Horn, F.; Oesch, f.; Amelizad, Z.; Friedberg, T. and Wolf, C.r.: Isoenzyme-specific phosphorylation of cytochromes P-450 and other drug metabolizing enzymes. Biochim. Biophys. Res. Commun. 142: 885-892, 1987.

292. Milbert, U.; Wörner, W.; Thomas, H. and Oesch, F.: The role of the glutathione transferases in detoxifying carcinogens: Further characterization of rat hepatic and renal glutathione transferases. In: Glutathione S-Transferases and Carcinogenesis (eds. mantle, T.J.; Pickett, C.B. and Hayes, J.d.), Taylor & Francis, London, pp. 139-148, 1987.

293. Hodgson, R.M.; Seidel, A.; Bochnitschek, W.; Glatt, H.R.; oesch, F. and Grover, P.L.: formation of glutathione conjugates from chrysene diol- and triol-epoxides: evidence for the further metabolism of the ‘Bay-region‘ diol-epoxide of chrysene to a triol-epoxide. In: Glutathione S-Transferases and Carcinogenesis (eds. mantle, T.J.; Pickett, C.B. and Hayes, J.D.), Taylor & Francis, London, pp. 239-243, 1987.

294. Turchi, G.; Carluccio, M.A.; Oesch, f.; Gemperlein, I. and Glatt, H.R.: Characterization of an epithelial, nearly diploid liver cell strain, from Chinese hamster, able to activate promutagens. Mutagenesis 2: 127-135, 1987.

295. Tsuda, H.; Moore, M.A.; Asamoto, M.; Inoue, T.; Fukushima, S.; Ito, N.; Satoh, K.; Amelizad, Z. and Oesch, F.: Immunohistochemically demonstrated altered expression of cytochrome P-450 molecular forms and epoxide hydrolase in N-ethyl-N-hydroxyethylnitrosamine-induced rat kidney and liver lesions. Carcinogenesis 8: 711-717, 1987.

296. Oesch, F.: Significance of various enzymes in the control of reactive metabolites. Arch. Toxicol. 60: 174-178, 1987.

297. Oesch, F. and Schladt, L.: Coordinate induction of peroxisomal ß-oxidation activity and cytosolic epoxide hydrolase activity. Pharmac. Ther. 33: 29-35, 1987.

298. Oesch, F.; Janik-Schmitt, B.; Ludewig, G.; Glatt, H. and Wieser, R.J.: Glutaraldehyde-fixed transformed and non-transformed cells induce contact-dependent inhibition of growth in non-transformed C3H/10T1/2 mouse fibroblasts, but not in 3-methylcholanthrene-transformed cells. Eur. J. Cell Biol. 43: 403-407, 1987.

299. Arand, M.; Robertson, L.W. and Oesch, F.: A fluorometric assay for quantitating phenol sulfotransferase activities in homogenates of cell tissues. Anal. Biochem. 163: 546-551, 1987.

300. Oesch, F. and Steinberg, P.: A comparative study of drug metabolizing enzymes present in isolated rat liver parenchymal, Kupffer and endothelial cells. Biochem. Soc. Transact. 15: 372-373, 1987.

301. Setiabudi, F.; Oesch, F. and Platt, K.L.: Radioactively labelled epoxides. Part V. Tritium labelled K-region oxides and trans-dihydrodiols of pyrene, benzo[a]pyrene and dibenz[a,h]anthracene. J. Lab. Comp. Radiopharm. XXIV: 979-986, 1987.

302. Amelizad, Z.; narbonne, J.F.; Borin, C.; Robertson, L.W.; Periquet, A. and Oesch, F.: Effect of unbalanced diets on incorporation of □-aminolevulinic acid into cytochrome P-450. FEBS Lett. 220: 231-235, 1987.

303. Buchmann, A.; Schwarz, M.; Schmitt, R.; Wolf, C.R.; Oesch, F. and Kunz, W.: Development of cytochrome P-450-altered preneoplastic and neoplastic lesions during nitrosamine-induced hepatocarcinogenesis in the rat. Cancer Res. 47: 2911-2918, 1987.

304. Azais, V.; Arand, M.; Rauch, P.; Schramm, H.; Bellenand, P.; Narbonne, J.-F.; Oesch, F.; Pascal, G. and Robertson, L.W.: A time-course investigation of vitamin A levels and drug metabolizing enzyme activities in rats following a single treatment with prototypic polychlorinated biphenyls and DDT. Toxicology 44: 341-354, 1987.

305. Wieser, R.J. and Oesch, F.: Plasma membrane glycoporteins covalently bound to silica beads as a model for molecular studies of cell-cell interactions in culture. J. Biochem. Biophys. Methods. 15: 13-22, 1987.

306. Lilienblum, W.; Platt, K.L.; Schirmer, G.; Oesch, F. and Bock, K.W.: Regioselectivity of rat liver microsomal UDP-glucuronosyltransferase activities toward phenols of benzo[a]pyrene and dibenz[a,h]anthracene. Mol. Pharmacol. 32: 173-177, 1987.

307. Faigle, J.W.; Blattner, H.; Glatt, H.R.; Kriemler, H.-P.; Mory, H.; Storni, A.; Winkler, T. and Oesch, F.: Structures and mutagenic properties of products obtained by C-nitrosation of opipramol. Helv. Chim. Acta 70: 1296-1301, 1987.

308. Glatt, H.R.; Seidel, A.; Ribeiro, O.; Kirkby, C.; Hirom, P. and Oesch, f.: Metabolic activation to a mutagen of 3-hydroxy-trans-7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene, a secondary metabolite of benzo[a]pyrene. Carcinogenesis 8: 1621-1627, 1987.

309. Rauch, P.; Puettmann, M.; Oesch, F.; Okamoto, Y. and Robertson, L.W.: Differential induction of cytochrome P-450 by the enantiomers of trans-stilbene oxide. Biochem. Pharmacol. 36: 4355-4359, 1987.

310. Steinberg, P.; Lafranconi, W.M.; Wolf, C.R.; Waxman, D.J.; Oesch, F. and Friedberg, T.: Xenobiotic metabolizing enzymes are not restricted to parenchymal cells in rat liver. Mol. Pharmacol. 32: 463-470, 1987.

311. Friedberg, T. and Oesch, F.: Kontrollfaktoren der Tumorentstehung Forschungsmagazin der Johannes Gutenberg-Universität Mainz, April 1987: 27-32, 1987.

312. Glatt, H.R.; Gemperlein, I.; Turchi, G.; Heinritz, H.; Doehmer, J. and Oesch, F.: Search for cell culture systems with diverse xenobiotic-metabolising activities and their use in toxicological studies. Mol. Toxicol. 1: 313-334, 1987.

313. Wolf, C.R.; Meehan, R.; Burke, M.D.; Adams, J.; Oesch, F.; Friedberg, T.; Adesnik, M. and Hastie, N.: Molecular aspects of cytochrome P-450 monooxygenases: characterization of some constitutively expressed forms. In: Drug metabolism from Molecules to Man (eds. Benford, D.J.; Bridges, J.W. and Gibson, G.G.), Taylor & Francis, London, pp. 14-29, 1987.

314. Timms, C.; Schladt, L.; Robertson, L.; Rauch, P.; Schramm, H. and Oesch, F.: The regulation of rat liver epoxide hydrolases in relation to that of other drug-metabolizing enzymes. In: Drug Metabolism from Molecules to Man (eds. Benford, D.J.; Bridges, J.W. and Gibson, G.G.), Taylor & Francis, London, pp. 55-69, 1987.

315. Steinberg, P.; Lafranconi, W.M.; Friedberg, T. and Oesch, F.: Xenobiotic biotransformation enzymes are present in rat liver Kupffer and endothelial cells. In: Drug Metabolism from Molecules to Man (eds. Benford, D.J.; Bridges, J.W. and Gibson, G.G.), Taylor & Francis, London, pp. 404-410, 1987.

316. Janik-Schmitt, B.; Oesch, F.; Ludewig, G. and Wieser, R.J.: Loss of contact-dependent inhibition of growth in chemically transformed fibroblasts. In: Lectins and Glycoconjugates on Oncology (eds. Gabius, H.J. and Nagel, G.A.), Springer-Verlag, Heidelberg, pp. 187-192, 1987.

317. Kunz, H.W.; Buchmann, A.; Schwarz, M.; Schmitt, R.; Kuhlmann, W.D.; Wolf, C.R. and Oesch, F.: Expression and inducibility of drug-metabolizing enzymes in preneoplastic lesions of rat liver during nitrosamine-induced hepatocarcinogenesis. Arch. Toxicol. 60: 198-203, 1987.

318. Oesch, f.; Glatt, H.R. and Utesch, D.: Metabolic perspectives on in vitro toxicity tests. Xenobiotica 18: 35-44, 1988.

319. Volk, B.; Amelizad, Z.; anagnostopoulos, J.; Knoth, R. and Oesch, F.: First evidence of cytochrome P-450 induction in the mouse brain by phenytoin. Neurosci. Lett. 84: 219-224, 1988.

320. Doerjer, G.; Buchholz, U.; Kreuzer, K. and Oesch, f.: Biomonitoring of DNA damage by alkaline filter elution. Int. Arch. Occup. Environ. Health 60: 169-174, 1988.

321. Platt, K.L. and Oesch, F.: Metabolic pathways of dibenz[a,h]anthracene and their enzymatic control in relation to bacterial mutagenicity. In: Reviews in Biochemical Toxicology, Vol. 9 (eds. Hodgson, E.; Bend, J.R. and Philpot, R.M.), Elsevier Science Publishing, pp. 185-224, 1988.

322. Wieser, R.J. and Oesch, f.: Contact-dependent regulation of growth of diploid human fibroblasts is dependent upon the presence of terminal galactose residues on plasma membrane glycoproteins. Exp. Cell Res. 176: 80-86, 1988.

323. Heidmann, M.; Fonrobert, P.; Przybylski, M.; Platt, K.L.; Seidel, A. and Oesch, F.: Conjugation reactions of polyaromatic quinones to mono- and bis-glutathionyl adducts: direct

analysis by fast atom bombardment mass spectrometry. Biomed. Environm. Mass spectrometry 15: 329-332, 1988.

324. Oesch, F.; Schaefer, A. and Wieser, R.: 12-O-Tetradecanoylphorbol-13-acetate releases human diploid fibroblasts from contact-dependent inhibition of growth. Carcinogenesis 9: 1319-1322, 1988.

325. Tsuda, H.; Moore, M.A.; Asamoto, M.; Inoue, T.; Ito, N.; Satoh, K.; Ichihara, A.; Nakamura, T.; Amelizad, Z. and Oesch, F.: Effect of modifying agents on the phenotypic expression of cystochrome P-450, glutathione S-transferase molecular forms, microsomal epoxide hydrolase, glucose-6-phosphate dehydrogenase and □-glutamyltranspeptidase in rat liver preneoplastic lesions. Carcinogenesis 9: 547-554, 1988.

326. Steinberg, P.; Seibert, B. and Oesch, F.: Separation and biochemical characterization of rat liver parenchymal cell subpopulations. In: Experimental Hepatocarcinogenesis (eds. Roberfroid, M.B. and Preat, V.), Plenum Publishing corporation, New York, pp. 257-265, 1988.

327. Platt, K.L.; Petrovic, P.; Seidel, A.; Beermann, D. and Oesch, F.: Microsomal metabolism of picene. Chem.-Biol. Interact. 66: 157-175, 1988.

328. Oesch, F.; Hartmann, R.; Timms, C.; Strolin-Benedetti, M.; Dostert, P.; Woerner, W. and Schladt, L.: Time-dependence and differential induction of rat and guinea pig peroxisomal ß-oxidation, palmitoyl-CoA hydrolase, cytosolic and microsomal epoxide hydrolase after treatment with hypolipidemic drugs. J. Cancer Res. Clin. Oncol. 114: 341-346, 1988.

329. Doehmer, J.; Dogra, S.; Friedberg, T.; Monier, S.; Adesnik, M.; Glatt, H.R. and Oesch, F.: Stable expression of rat cytochrome P-450IIB1 cDNA in Chinese hamster cells (V79) and the metabolic activation of aflatoxin B1. Proc. natl. Acad. Sci. USA 85: 5769-5773, 1988.

330. Amelizad, Z.; Appel, K.E.; Oesch, f. and Hildebrandt, A.G.: Effect of antibodies of cytochrome P-450 on demethylation and denitrosation of N-nitrosodimethylamine and N-nitrosomethylaniline. J. Cancer Res. Clin. Oncol. 114: 380-384, 1988.

331. Steinberg, P.; Schladt, L.; Dienes, H.P.; Timms, C. and Oesch, F.: Microsomal and cytosolic epoxide hydrolases, the peroxisomal fatty acid ß-oxidation system and catalase: Activities, distribution and induction in rat liver parenchymal and non-parenchymal cells. Eur. J. Biochem. 176: 39-45, 1988.

332. Amelizad, Z.; Narbonne, J.F.; Wolf, C.R.; Robertson, L.W. and Oesch, f.: Effect of nutritional imbalances on cytochrome P-450 isozymes in rat liver. Biochem. Pharmacol. 37: 3245-3249, 1988.

333. Schladt, L.; Hartmann, R.; Woerner, W.; Thomas, H. and Oesch, F.: Purification and characterization of rat-liver cytosolic epoxide hydrolase. Eur. J. Biochem. 176: 31-37, 1988.

334. Schladt, L.; Thomas, H.; Hartmann, R. and Oesch, F.: Human liver cytosolic epoxide hydrolases. Eur. J. Biochem. 176: 715-723, 1988.

335. Oesch, F.; Schladt, L.; Steinberg, P. and Thomas, H.: Concomitant induction of cytosolic epoxide hydrolase and peroxisomal ß-oxidation by hypolipidemic compounds in rat and guinea pig liver. Arch. Toxicol. Suppl. 12: 248-255, 1988.

336. Romero, F.J.; Gath, I.; Thomas, H.; Milbert, U. and Oesch, F.: Purification and characterization of acidic glutathione S-transferases (EC 2.5.1.18) from rat kidney. Arch. Toxicol. Suppl. 12: 366-369, 1988.

337. Oesch, F.: Antimutagenesis by shift in monooxygenase isoenzymes and induction of microsomal epoxide hydrolase. Mutat. Res. 202: 335-342, 1988.

338. Setiabudi, F.; Oesch, F. and Platt, K.L.: Radioactively labelled epoxides. Part VI. Tritium-labelled mono- and dimethyl substituted phenyl oxiranes (styrene oxides). J. Lab. Comp. Radiopharmac. 25: 1209-1217, 1988.

339. Bartlomowicz, B.; Amelizad, Z.; Wolf, C.r.; Friedberg, T.; Utesch, d. and Oesch, F.: Studies on the phosphorylation of drug metabolizing enzymes. In: Toxicological and Immunological Aspects of Drug Metabolism and Environmental Chemicals (eds. Estabrook, R.; Lindenlaub, E.; Oesch, F. and de Weck, A.L.), Schattauer Verlag, Stuttgart-New York, pp. 155-163, 1988.

340. Amelizad, Z.; Manns, M.; Kyrietsoulis, A.; Gerken, G.; Lohse, A.; Reske, K.; Meyer zum Bueschenfelde, K.H. and Oesch, F.: Cytochrome P-450 as target antigens of LKM antibodies. In: Toxicological and Immunological Aspects of Drug Metabolism and Environmental Chemicals (eds. Estabrook, R.; Lindenlaub, E.; Oesch, F. and de Weck, A.L.), Schattauer Verlag, Stuttgart-New York, pp. 379-387, 1988.

341. Thomas, H. and Oesch, F.: Functions of epoxide hydrolases. ISI Atlas of Science: Biochemistry 1: 287-291, 1988.

342. Wieser, R.J.; Janik-Schmitt, B.; Renauer, D.; Schaefer, A.; Heck, R. and Oesch, F.: Contact dependent inhibition of growth of normal diploid human fibroblasts by plasma membrane glycoprotein. Biochimie 70: 1661-1671, 1988.

343. Jagadeesan, V. and Oesch, F.: Effect of dietary zinc deficiency on the activity of enzymes associated with phase I and II of drug metabolism in Fisher-344 rats: Activities of drug metabolising enzymes in zinc deficiency. Drug Nutrient Interactions 5: 403-413, 1988.

344. Pacifici, G.H.; Temellini, A.; Giuliani, L.; Rane, A.; Thomas, H. and Oesch, F.: Cytosolic epoxide hydrolase in humans: development and tissue distribution. Arch. Toxicol. 62: 254-257, 1988.

345. Glatt, H.R.; Hirom, P.C.; Kirkby, C.A.; Ribeiro, O.; Seidel, A. and Oesch, f.: Complex metabolic activation pathways of polycyclic aromatic hydrocarbons: 3-hydroxy-trans-7,8-dihydroxy-7,8-dihydrobenzo[a]pyrene as a proximate mutagen of 3-hydroxybenzo[a]pyrene. In: Chemical Carcinogenesis (eds. Feo, F.; Pani, P.; Columbano, A. and Garcea, R.), Plenum Publishing Corporation, pp. 37-44, 1988.

346. Dogra, S.; Filser, J.G.; Cojocel, C.; Greim, H.; Regel, U.; Oesch, F. and Robertson, L.W.: Long-term effects of commercial and congeneric polychlorinated biphenyls on ethane production and malondialdehyde levels, indicators of in vivo lipid peroxidation. Arch. Toxicol. 62: 369-374, 1988.

347. Manns, M.; Kyriatsoulis, A.; Amelizad, Z.; Gerken, G.; Lohse, A.; Reske, K.; Meyer zum Bueschenfelde, K.-H. and Oesch, F.: Relationship between the target antigen of liver-kidney microsomal (LKM) autoantibodies and rat isoenzymes of cytochrome P-450. J. Clin. Lab. Anal. 2: 245-248, 1988.

348. Tsuda, H.; Uwagawa, S.; Aoki, T.; Fukushima, S.; Imaida, K.; Ito, N.; Sato, K.; Nakamura, T. and Oesch, F.: analysis of the effects of modifying agents on six different phenotypes in preneoplastic foci in the liver in medium-term bioassay model in rats. In: Chemical Carcinogenesis. Models and Mechanisms (eds. Feo, F.; Pani, P.; Columbano, A. and Garcea, R.), Plenum Press, New York, pp. 399-405, 1988.

349. Magdalou, J.; Totis, M.; Boiteux-Antoine, A.-F.; Fournel-Gigleux, S.; Siest, G.; Schladt, L. and Oesch, f.: Effect of 1-benzylimidazole on cytochromes P-450 induction and on the activities of epoxide hydrolases and UDP-glucuronosyltransferases in rat liver. Biochem. Pharmacol. 37: 3297-3304, 1988.

350. Oesch, F.; Lafranconi, W.M.; Arand, M. and Steinberg, P.: Rat liver cell type specific patterns of drug metabolizing enzymes and consequences for the control of genotoxic metabolites. In: Microsomes and Drug Oxidations (eds. Miners, J.O.; Birkett, D.J.; Drew, R.; May, B.K. and McManus, M.E.), Taylor & Francis London, pp. 346-353, 1988.

351. Renauer, D.; Oesch, F.; Heck, R. and Wieser, R.: Identification of plasma membrane glycoproteins involved in the contact-dependent inhibition of growth of diploid human fibroblasts. Exp. Cell Res. 180: 504-514, 1989.

352. Bartlomowicz, B.; Waxman, D.J.; Utesch, D.; Oesch, F. and Friedberg, T.: Phosphorylation of carcinogen metabolizing enzymes: regulation of the phosphorylation status of the major phenobarbital inducible cytochromes P-450 in hepatocytes. Carcinogenesis 10: 225-228, 1989.

353. Oesch, F. and Klein, J.: Multiple dihydrodiol dehydrogenases and their differential toxicological significance. In: Xenobiotic Metabolism and disposition (eds. kato, R.; Estabrook, R.W. and Cayen, M.N.), Taylor & Francis, London, pp. 97-105, 1989.

354. Oesch, F.; Schladt, L.; Glatt, H.R. and Thomas, H.: Metabolism of chemical carcinogens. In: Liver Cell Carcinoma (eds. Bannasch, P.; Keppler, D. and Weber, G.), Kluwer Academic Publishers, London, pp. 243-250 , 1989.

355. Oesch, F.; Waxman, D.J.; Morrissey, J.J.; Honscha, W.; Kissel, W. and Friedberg, T.: Antibodies targeted against hypervariable and constant regions of cytochrome P450IIB1 and P450IIB2. Arch. biochem. Biophys. 270: 23-32, 1989.

356. Bartlomowicz, B.; Friedberg, T.; Utesch, D.; Molitor, E.; Platt, K.L. and Oesch, F.: Regio- and stereoselective regulation of monooxygenase activities by isoenzyme-selective phosphorylation of cytochrome P450. Biochem. Biophys. Res. Commun. 160: 46-52, 1989.

357. Seibert, B.; Oesch, F. and Steinberg, P.: Distribution and induction of cytochrome P-450 and two cytochrome P-450-dependent monooxygenase activities in rat liver parenchymal cell subpopulations separated by centrifugal elutriation. Arch. toxicol. 63: 18-22, 1989.

358. Grolier, P.; Cassand, P.; Antignac, E.; Narbonne, J.F.; Albrecht, R.; Azais, V.; Robertson, L.W. and Oesch, F.: Effects of prototypic PCBs on benzo[a]pyrene mutagenic activity related to vitamin A intake. Mutat. Res. 211: 139-145, 1989.

359. Doehmer, J.; Glatt, H.R.; Platt, K.L. and Oesch, F.: Gentechnologisch veränderte V79-Zellen für toxikologische Untersuchungen. GUM 1: 2-9, 1989.

360. Doehmer, J.; Dogra, S.; Friedberg, T.; Molitor, E.; Platt, K.L.; Glatt, H.R.; Monier, S.; Adesnik, M. and Oesch, F.: Stable expression of P450IIB1 cDNA in V79 cells In: Cytochrome P-450: biochemistry and biophysics (ed. Schuster, I.), Taylor & Francis, London, pp. 556-559, 1989.

361. Edigkaufer, M.; Dogra, S.; Oesch, F. and Doehmer, J.: BPV-DNA as eucaryotic vector for cytochrome P450IIB1 cDNA. In: Cytochrome P-450: Biochemistry and Biophysics (ed. Schuster, I.), Taylor & Fancis, London, pp. 560-563, 1989.

362. Amelizad, Z.; Appel, K.; Balabaud, C.; Schoepke, M. and Oesch, F.: Inducible form cytochrome P450 identified in human liver microsomes and metabolism of N-nitrosodimethylamine. In: Cytochrome P-450: biochemistry and Biophysics (ed. Schuster, I.), Taylor & Francis, London, pp. 612-615, 1989.

363. Waxman, J.D.; Lapenson, D.P.; Morrissey, J.J.; Park, S.S.; Gelboin, H.V.; Doehmer, J. and Oesch, F.: androgen hydroxylation catalyzed by a cell line (SD1) that stably expresses rat hepatic P-450 PB-4 (IIB1). Biochem. J. 260: 81-85, 1989.

364. Thomas, H.; Schladt, L.; Knehr, M.; Post, K.; Oesch, F.; Boiteux-Antoine, A.-F.; Fournel-Gigleux, S.; Magdalou, J. and Siest, G.: Effect of hypolipidemic compounds on lauric acid hydroxylation and phase II enzymes. Biochem. Pharmacol. 38: 1963-1969, 1989.

365. Jagadeesan, V. and Oesch, F.: Effect of nutrient stress on various phase I and phase II drug metabolizing enzymes of Sprague Dawley and fischer-344 rats. Nutrition Reports International 39: 177-183, 1989.

366. Pacifici, G.M.; Temellini, A.; Giuliani, L.; Rane, A.; Thomas, H. and Oesch, F.: Valpromide is a poor inhibitor of the cytosolic epoxide hydrolase. Arch. Toxicol. 63: 157-159, 1989.

367. Platt, K.L.; Molitor, E.; Doehmer, J.; Dogra, S. and Oesch, F.: Genetically engineered V79 Chinese hamster cell expression of purified cytochrome P-450IIB1 monooxygenase activity. J. Biochem. Toxicol. 4: 1-6, 1989.

368. Schramm, H.; Friedberg, T.; Robertson, L.W.; Oesch, F. and Kissel, W.: Perfluorodecanoic acid decreases the enzyme activity and the amount of glutathione S-transferases proteins and m-RNAs in vivo. Chem.-Biol. Interact. 70: 127-143, 1989.

369. Amelizad, S.; Appel, K.E.; Schoepke, M.; Ruehl, C.S. and Oesch, F.: Enhanced demethylation and denitrosation of N-nitrosodimethylamine by human liver microsomes from alcoholics. Cancer Lett. 46: 43-49, 1989.

370. Kubiczak, G.A.; Oesch, F.; Borlakoglu, J.T.; Kunz, H. and Robertson, L.W.: A unique approach to the synthesis of 2,3,4,5-substituted polybrominated biphenyls: quantitation in fireMaster FF-1 and fireMaster BP-6. J. Agr. Food Chem. 37: 1160-1164, 1989.

371. Glatt, H.R.; Padykdula, R.; Berchthold, G.A.; Ludewig, G.; Platt, K.L.; Klein, J. and Oesch, F.: Multiple activation pathways of benzene leading to products with varying genotoxic characteristics. Environm. Hlth. Perspect. 82: 81-89, 1989.

372. Fuchs, J. and Oesch, F.: Fortschritte in der Erkennung einer potentiellen Krebsgefährdung von Arbeitnehmern durch ihre berufliche Umgebung. Ergo-Med. 13: 107-111, 1989.

373. Steinberg, P.; Schramm, H.; Schladt, L.; Robertson, L.W.; Thomas, H. and Oesch, F.: The distribution, induction and isoenzyme profile of glutathione S-transferase and glutathione

peroxidase in isolated rat liver parenchymal, Kupffer and endothelial cells. Biochem. J. 264: 737-744, 1989.

374. Platt, K.L.; Frank, H. and Oesch, f.: Synthesis of the non-K-region arene oxides and tetrahydro epoxides of dibenz[a,h]anthracene. J. Chem. Soc. Perkin Trans. I: 2229-2233, 1989.

375. Thomas, H.; Schladt, L.; Knehr, M. and Oesch, F.: Effect of diabetes and starvation on the activity of rat liver epoxide hydrolases, glutathione S-transferases and peroxisomal ß-oxidation. Biochem. Pharmacol. 38: 4291-4297, 1989.

376. Oesch, F. and Wolf, R.: Properties of the microsomal and cytosolic glutathione transferases involved in hexachloro-1:3-butadiene conjugation. Biochem. Pharmacol. 38: 353-359, 1989.

377. Oesch, F. and Arand, M.: Molecular aspects of carcinogenesis. Part B. J. Cancer Res. Clin. Oncol. 115: 606-607, 1989.

378. Knepper, T.; Lenhardt, S.; Przybylski, M.; Bosk, C.; Platt, K.L.; Seidel, A. and Oesch, F.: Identification and structural characterization of mono- and bis-glutathionyl conjugates from polyaromatic quinone metabolites. In: Advances in Mass spectrometry, Vol. 11B (ed. Longevialle, P.), Heyden & Son, pp. 1398-1399, 1989.

379. Schlemper, B.; Utesch, D.; Molitor, E.; Platt, K.L.; Oesch, F. and Steinberg, P.: Activation of several carcinogenic compounds to mutagenic metabolites by isolated rat liver Kupffer and endothelial cells. In: Cells of the Hepatic Sinusoid, Vol. 2 (eds. Wisse, E.; Knook, D.L. and Decker, K.), Kupffer Cell Foundation, Rijswijk, pp. 380-385, 1989.

380a. Friedberg, T.; Timms, C.; Kissel, W. and Oesch, F.: Evidence for several hepatic proteins related to microsomal epoxide hydrolase. In: Biological Monitoring of Exposure and the Response at the Subcellular Level to Toxic Substances (eds. Chambers, P.L.; Chambers, C.M. and Greim, H.), Springer Verlag, Heidelberg, pp. 145-152, 1989.

380b. Friedberg, T.; Timms, C.; Kissel, W. and Oesch, f.: Evidence for several hepatic proteins related to microsomal epoxide hydrolase. Arch. Toxicol. Suppl. 13: 145-152, 1989.

381a. Doehmer, J.; Dogra, S.; Edigkaufer, M.; Molitor, E.; Siegert, P.; Friedberg, T.; Glatt, H.R.; Platt, K.; Seidel, A.; Thomas, H. and Oesch, f.: Introduction of cytochrome P-450 genes into V79 Chinese hamster cells to generate new mutagenicity test system. In: Biological Monitoring of Exposure and the Response at the Subcellular Level to Toxic Substances (eds. Chambers, P.L.; Chambers, C.M. and Greim, H.), Springer Verlag, Heidelberg, pp. 164-168, 1989.

381b. Doehmer, J.; Dogra, S.; Edigkaufer, M.; Molitor, E.; Siegert, P.; Friedberg, T.; Glatt, H.R.; Platt, K.; Seidel, A.; Thomas, H. and Oesch, F.: Introduction of cytochrome P-450 genes into V79 Chinese hamster cells to generate new mutagenicity test system. Arch. Toxicol. Suppl. 13: 164-168, 1989.

382. Doehmer, J. and Oesch, F.: Anwendung gentechnologischer Verfahren zur Lösung medizinischer und toxikologischer Probleme. In: Forschungsmagazin der Johannes Gutenberg-Universität, Mainz, April 1989.

383. Puettmann, M.; Arand, M.; Oesch, F.; Mannschreck, A. and Robertson, L.W.: Chirality and the induction of xenobiotic-metabolizing enzymes: effects of the atropisomers of the polychlorinated biphenyl 2,2‘,3,4,4‘,6-hexachlorobiphenyl. In: Chirality and Biological Activity (eds. Holmstedt, B.; Frank, H. and Testa, B.), Alan R. Liss, New York, pp. 177-184, 1990.

384. Seidel, A.; Glatt, H.R.; Oesch, F. and Garrigues, P.: 2,9-Dimethylpicene: Synthesis, mutagenic activity, and identification in natural samples. Polycyclic Aromatic Comp. 1: 3-14, 1990.

385. Glatt, H.R.; Utesch, D.; Herbst, M. and Oesch, F.: Mutagenicity experiments on L-cysteine and D-penicillamine using V79 cells as indicators and for metabolic activation. Mutat. Res. 243: 187-193, 1990.

386. Platt, K.L.; Schollmeier, M.; Frank, H. and Oesch, F.: Stereoselective metabolism of dibenz[a,h]anthracene to trans-dihydrodiols and their activation to bacterial mutagens. Envir. Health Perspect. 88: 37-41, 1990.

387. Glatt, H.R.; Henschler, R.; Philipps, D.H.; Blake, J.W.; Steinberg, P.; Seidel, A. and Oesch, F.: Sulfotransferase-mediated chlorination of 1-hydroxymethylpyrene to a mutagen capable of penetrating indicator cells. Envir. Health Perspect. 88: 43-48, 1990.

388. Schaefer, A.; Wieser, R.J.; Romero, F. and Oesch, F.: Reduction of glutathione content by 12-O-tetradecanoylphorbol-13-acetate in confluent, but not in sparse cultures of human diploid fibroblasts. Carcinogenesis 11: 697-699, 1990.

389. Gabbert, H.E.; Gerharz, C.-D.; Ramp, U.; Hoffmann, J.; Oster, O.; Oesch, F. and Doehmer, J.: Enhanced expression of the proto-oncogenes fos and raf in the rhabdomyosarcoma cell line BA-HAN-1C after differentiation induction with retinoic acid and N-methylformamide. Int. J. Cancer 45: 724-730, 1990.

390. Chen, L.-C.; Borges, T.; Glauert, H.P.; Knight, S.A.B.; Sunde, R.A.; Schramm, H.; Oesch, F.; Chow, K.C. and Robertson, L.W.: Modulation of selenium-dependent glutathione peroxidase by perfluorodecanoic acid in rats: effect of dietary selenium. J. Nutr. 120: 298-304, 1990.

391. Dogra, S.; Doehmer, J.; Glatt, H.R.; Moelders, H.; Siegert, P.; Friedberg, T.; Seidel, A. and Oesch, F.: Stable expression of rat cytochrome P-450IA1 cDNA in V79 Chinese hamster cells and their use in mutagenicity testing. Mol. Pharmacol. 37: 608-613, 1990.

392. Friedberg, T.; Grassow, M.A. and Oesch, F.: Selective detection of mRNA forms encoding the major phenobarbital inducible cytochromes P450 and other members of the P450IIB family by the RNAse A protection assay. Arch. Biochem. Biophys. 279: 167-173, 1990.

393. Narbonne, J.-F.; Grolier, P.; Albrecht, R.; Azais, V.; Oesch, F. and Robertson, L.W.: A time course investigation of vitamin A level and lipid composition of the liver endoplasmic reticulum in rats following treatment with congeneric polychlorobiphenyls. Toxicology 60: 253-261, 1990.

394. Oesch, F.; Doehmer, J.; Friedberg, T.; Glatt, H.R.; Oesch-Bartlomowicz, B.; Platt, K.L.; Steinberg, P.; Utesch, D. and Thomas, H.: Toxicological implications of enzymatic control of reactive metabolites. Hum. Exp. Toxicol. 9: 171-177, 1990.

395. Oesch, F. and Thomas, H.: Metabolism of chemical carcinogens. In: Biochemistry of Chemical Carcinogenesis (eds. Garner, R.C. and Hradec, J.), Plenum Press, New York, pp. 13-24, 1990.

396. Thomas, H.; Schladt, L.; Doehmer, J.; Knehr, M. and Oesch, F.: Rat and human liver cytosolic epoxide hydrolases: evidence for multiple forms on the level of protein and mRNA. Envir. Health Perspect. 88: 49-55, 1990.

397. Gauss, C.; Klein, J.; Post, K.; Suckau, D.; Schneider, K.; Thomas, H.; Oesch, F. and Przybylski, M.: Mass spectrometric peptide mapping analysis and structural characterization of dihydrodiol dehydrogenase isoenzymes. Envir. Health Perspect. 88: 57-62, 1990.

398. Doehmer, J.; Seidel, A.; Oesch, F. and Glatt, H.R.: Genetically engineered V79 Chinese hamster cells metabolically activate the cytostatic drugs cyclophosphamide and ifosfamide. Envir. Health Perspect. 88: 63-65, 1990.

399. Oesch-Bartlomowicz, B. and Oesch, F.: Phosphorylation of cytochrome P450 isoenzymes in intact hepatocytes and its importance for their function in metabolic processes. Arch. Toxicol. 64: 257-261, 1990.

400. Glatt, H.R.; Gemperlein, I.; Setiabudi, F.; Platt, K.L. and Oesch, F.: Expression of xenobiotic-metabolizing enzymes in propagatable cell cultures and induction of micronuclei by 13 compounds. Mutagenesis 5: 241-249, 1990.

401. Masento, M.S.; Taylor, G.W.; Watson, D.; Seidel, A.; Bochnitschek, W.; Oesch, F. and Grover, P.L.: Metabolism of 3-hydroxychrysene by rat liver microsomal preparations. Chem.-Biol. Interactions 74: 163-178, 1990.

402. Oesch-Bartlomowicz, B.; Vogel, S.; Arens, H.-J. and Oesch, F.: Modulation of the control of mutagenic metabolites derived from cyclophosphamide and ifosfamide by stimulation of protein kinase A. Mutat. Res. 232: 305-312, 1990.

403. Platt, K.L.; Pfeiffer, E.; Petrovic, P.; Friesel, H.; Beermann, D.; Hecker, E. and Oesch, F.: Comparative tumorigenicity of picene and dibenz[a,h]anthracene in the mouse. Carcinogenesis 10: 1721-1726, 1990.

404. Klein, S. and Oesch, F.: A new assay for O6-alkylguanine-DNA-alkyltransferase to determine DNA repair capacities using Lambda-phage-DNA as substrate. Carcinogenesis 10: 1771-1774, 1990.

405. Klein, J.; Post, K.; Thomas, H.; Woerner, W.; Setiabudi, F.; Frank, H.; Oesch, f. and Platt, K.L.: The oxidation of the highly tumorigenic benz[a]anthracene 3,4-dihydrodiol by rat liver dihydrodiol dehydrogenase. Chem.-Biol. Interactions 76: 211-226, 1990.

406. Friedberg, T.; Siegert, P.; Grassow, M.A.; Bartlomowicz, B. and Oesch, F.: Studies of the expression of the cytochrome P450IA, P450IIB, and P450IIC gene family in extrahepatic and hepatic tissues. Environ. Health Perspect. 88: 67-70, 1990.

407. Steinberg, P.; Schlemper, B.; Molitor, E.; Platt, K.L.; Seidel, A. and Oesch, F.: Rat liver endothelial and Kupffer cell-mediated mutagenicity of polycyclic aromatic hydrocarbons and Aflatoxin B1. Environ. Health Perspect. 88: 71-76, 1990.

408. Wieser, R.J.; Renauer, D.; Schaefer, A.; Heck, R.; Engel, R.; Schuetz, S. and Oesch, f.: Growth control in mammalian cells by cell-cell contacts. Environ. Health Perspect. 88: 251-253, 1990.

409. Wieser, R.J.; Schuetz, S.; Tschank, G.; Thomas, H.; Dienes, H.-P. and Oesch, F.: Isolation and characterization of a 60-70-kD plasma membrane glycoprotein involved in the contact-dependent inhibition of growth. J. Cell Biol. 111: 2681-2692, 1990.

410. Hradec, J.; Seidel, A.; Platt, K.L.; Glatt, H.R.; Oesch, F. and Koblyakov, V.: The initiator tRNA acceptance assay as a short-term test for carcinogens. 6. Results with 78 polycyclic aromatic compounds. Carcinogenesis 11: 1921-1926, 1990.

411. Oesch, F.; Doehmer, J.; Friedberg, T.; Glatt, H.R.; Oesch-Bartlomowicz, B.; Platt, K.-L.; Steinberg, P.; Utesch, D. and Thomas, H.: Control of ultimate mutagenic species by diverse enzymes. In: Mutation and the Environment, Part B: Metabolism, Testing Methods and Chromosomes (eds. Mendelsohn, M.L. and Albertini, R.J.), Wiley-Liss, New York, pp. 49-65, 1990.

412. Oesch, F.; Gath, I.; Igarashi, T.; Glatt, H.R.; Oesch-Bartlomowicz, B. and Thomas, H.: Role of the well-known basic and recently discovered acidic glutathione S-transferases in the control of genotoxic metabolites. In: Molecular and Cellular Effects and Their Impact on Human Health (eds. Sipes, G.; Snyder, R. and Witmer, C.), Plenum Publishing Company, New York, pp. 25-39, 1990.

413. Thomas, H.; Timms, C.W. and Oesch, F.: Epoxide hydrolases: molecular properties, induction, polymorphisms and function. In: Frontiers of Biotransformation, Vol.2 (eds. Ruckpaul, K. and Rein, H.), Akademie-Verlag, Berlin, pp. 278-337, 1990.

414. Gerharz, C.D.; Doehmer, J.; Mayer, H.; Oesch, F. and Gabbert, H.: Morphological, biochemical, and molecular biological characterization of a rat rhabdomyosarcoma cell line during differentiation induction in vitro. Environm. Hlth. Perspect. 88: 187-191, 1990.

415. Müller, G.; Oesch, F. and Wieser, R.J.: Identification of the receptor for contactinhibin. In: Protein glycosylation: Cellular, Biotechnological and Analytical Aspects (ed. Conradt, H.s.), GBF Monographs, Vol. 15, VCH, pp. 69-72, 1990.

416. Schütz, S.; Oesch, f. and Wieser, R.J.: Biosynthesis of contactinhibin a plasmamembrane glycoprotein involved in contact-dependent inhibition of growth. In: Protein Glycosylation: Cellular, Biotechnological and analytical Aspects (ed. Conradt, H.S.), Vol. 15, VCH, pp. 73-76, 1990.

417. Bolt, H.M.; Greim, H.;Marquardt, H.; Neumann, H.G.; Oesch, F. and Ohnesorge, F.K.: Zur Toxizität von Zahnfüllungen aus Amalgam. Medizinische Klinik 85: 350-352, 1990.

418. Ludewig, G.; Dogra, S.; Seidel, A.; Setiabudi, F.; Oesch, F. and Glatt, H.R.: Quinones derived from polycyclic aromatic hydrocarbons: induction of diverse mutagenic and genotoxic effects in mammalian cells. In: Polynuclear Aromatic Hydrocarbons (eds. Cooke, M.; Loening, K. and Merritt, J.), Battelle Press, Columbus (Ohio), pp. 545-556, 1991.

419. Arand, M.; Coughtrie, M.W.H.; Burchell, B.; Oesch, F. and Robertson, L.W.: Selective induction of bilirubin UDP-glucuronosyltransferase by perfluorodecanoic acid. Chem.-Biol. Interact. 77: 97-105, 1991.

420. Glatt, H.R.; Seidel, A.; Schrode, R.; Ribeiro, O.; Kirkby, C.A.; Hirom, P.C. and Oesch, F.: 3-Hydroxybenzo[a]pyrene-7,8-dihydrodiol compared with benzo[a]pyrene-7,8-dihydrodiol and 3-hydroxybenzo[a]pyrene with regard to mutagenicity. In: Polynuclear Aromatic Hydrocarbons (eds. Cooke, M.; Loening, K. and Merritt, J.), Battelle Press, Columbus (Ohio), pp. 357-368, 1991.

421. Seidel, A.; Bochnitschek, W.; Glatt, H.R.; Hodgson, R.M.; Grover, P.L. and Oesch, F.: Activated metabolites of chrysene: Synthesis of 9-hydroxychrysene-1,2-diol and the corresponding bay-region syn- and anti-triol-epoxides. In: Polynuclear Aromatic Hydrocarbons (eds. Cooke, M.; Loening, K. and Merritt, J.), Battelle Press, Columbus (Ohio), pp. 801-818, 1991.

422. Glatt, H.R.; Piée, A.; Pauly, K.; Steinbrecher, T.; Schrode, R.; Oesch, F. and Seidel, A.: Fjord- and bay-region diol-epoxides investigated for stability, SOS induction in Escherichia coli, and mutagenicity in Salmonella typhimurium and mammalian cells. Cancer Res. 51: 1659-1667, 1991.

423. Steinberg, P.; Hacker, H.J.; Dienes, H.P.; Oesch, F. and Bannasch, P.: Enzyme histochemical and immunohistochemical characterization of oval and parenchymal cells proliferating in livers of rats fed a choline-deficient/DL-ethionine-supplemented diet. Carcinogenesis 12: 225-231, 1991.

424. Honscha, W.; Oesch, F. and Friedberg, T.: Tissue-specific expression and differential inducibility of several microsomal epoxide hydrolase mRNAs which are formed by alternative splicing. Arch. Biochem. Biophys. 287: 380-385, 1991.

425. Oesch, F.; Schladt, L.; Knehr, M.; Doehmer, J. and Thomas, H.: Epoxide hydrolase isoenzymes and their individual contribution to the control of toxic metabolites. In: NATO ASI Live Sciences Series: Molecular Aspects of Monooxygenases and Bioactivation of Toxic Compounds (eds. Arinc, E.; Schenkman, J.B. and Hodgson, E.), Plenum Press, New York, pp. 435-445, 1991.

426. Oesch, F.; Gath, I.; Igarashi, T.; Glatt, H.R. and Thomas, H.: Role of the well-known basic and recently discovered acidic glutathione S-transferases in the control of genotoxic metabolites. In: NATO ASI Life Sciences Series: Molecular Aspects of Monooxygenases and Bioactivation of Toxic Compounds (eds. Arinc, E.; Schenkman, J.B. and Hodgson, E.), Plenum Press, New York, pp. 447-461, 1991.

427. Klein, J.; Seidel, A.; Frank, H.; Oesch, F. and Platt, K.L.: Regiospecific oxidation of polycyclic aromatic dihydrodiols by rat liver dihydrodiol dehydrogenase. Chem.-Biol. Interactions 79: 287-303, 1991.

428. Krämer, A.; Frank, H.; Setiabudi, F.; Oesch, F. and Glatt, H.R.: Influence of the level of cytosolic epoxide hydrolase on the induction of sister chromatid exchanges by trans-ß-ethylstyrene 7,8-oxide in human lymphocytes. Biochem. Pharmacol. 42: 2147-2152, 1991.

429. Schlemper, B.; Harrison, J.; Garner, R.C.; Oesch, F. and Steinberg, P.: DNA binding, adduct characterisation and metabolic activation of aflatoxin B1 catalysed by isolated rat liver parenchymal, Kupffer and endothelial cells. Arch Toxicol. 65: 633-639, 1991.

430. Arand, M.; Knehr, M.; Thomas, H.; Zeller, H.D. and Oesch, F.: An impaired peroxisomal targeting sequence leading to an unusual bicompartmental distribution of cytosolic epoxide hydrolase. FEBS Lett. 294: 19-22, 1991.

431. Utesch, D.; Molitor, E.; Platt, K.L. and Oesch, F.: differential stabilization of cytochrome P-450 isoenzymes in primary cultures of adult rat liver parenchymal cells. In Vitro Cell. Dev. Biol. 27A: 858-863, 1991.

432. Doehmer, J. and Oesch, F.: V79 Chinese hamster cells genetically engineered for stable expression of cytochromes P450. In: Methods in Enzymology (eds. Waterman, M.R. and Johnson, E.F.), Academic Press, New York, Vol. 206, pp. 117-123, 1991.

433. Friedberg, T.; Kissel, W.; Arand, M. and Oesch, F.: Production of site-specific P450 antibodies using recombinant fusion proteins as antigens. In: Methods in Enzymology (eds. Waterman, M.R. and Johnson, E.F.), Academic Press, New York, Vol. 206, pp. 193-201, 1991.

434. Doehmer, J.; Barrenscheen, S.; Dogra, S.; Edigkaufer, M.; Glatt, H.R.; Oesch, F.; Platt, K.L.; Seidel, A. and Wölfel, C.: Die gentechnoloigsche Konstruktion von V79 Chinesische Hamsterzellen zur stabilen Expression von Fremdstoff-metabolisierenden Enzymen. Alternativen zu Tierexperimenten 15: 52-65, 1991.

435. Lecoq, S.; Ni Shé, M.; Grover, P.L.; Platt, K.L.; Oesch, F. and Phillips, D.H.: The in vitro metabolic activation of dibenz[a,h]anthracene, catalyzed by rat liver microsomes and examined by 32P-postlabelling. Cancer Lett. 57: 261-269, 1991.

436. Volk, B.; Hettmannsperger, U.; Papp, T.; Amelizad, Z.; Oesch, F. and Knoth, R.: Mapping of phenytoin-inducible cytochrome P450 immunoreactivity in the mouse central nervous system. Neuroscience 42: 215-235, 1991.

437. Lecoq, S.; Ni She, M.; Hewer, A.; Grover, P.L.; Platt, K.L.; Oesch, F. and Phillips, D.H.: The metabolic activation of dibenz[a,h]anthracene in mouse skin examined by 32P-postlabelling: minor contribution of the 3,4-diol 1,2-oxides to DNA binding. Carcinogenesis 12: 1079-1083, 1991.

438. Oesch, F.; Arand, M.; Coughtrie, M.W.; Burchell, B. and Steinberg, P.: The distribution of UDP-glucuronosyltransferases in rat liver parenchymal and nonparenchymal cells. Biochem. Pharmacol. 43: 731-737, 1992.

439. Wieser, R.J. and Oesch, F.: Contact-inhibition of growth by complex carbohydrates. Trends Glycosci. Glycotechn. 4: 160-167, 1992.

440. Robbins, D.K.; Wedlund, P.J.; Elsberg, S.; Oesch, F. and Thomas, H.: Interaction of valproic acid and some analogues with microsomal epoxide hydrolase. Biochem. Pharmacol. 43: 775-783, 1992.

441. Oesch, F. and Klein, S.: Relevance of environmental alkylating agents to the repair protein O6-alkylguanine-DNA alkyltransferase: determination of individual and collective repair capacities of O6-methylguanine. Cancer Res. 52: 1801-1803, 1992.

442. Utesch, D. and Oesch, F.: Dependency of the in vitro stabilization of differentiated functions in liver parenchymal cells on the type of cell line used for co-culture. In Vitro Cell. Dev. Biol. 28A: 193-198, 1992.

443. Klein, J.; Thomas, H.; Post, K.; Wörner, W. and Oesch, F.: Dihydrodiol dehydrogenase activities of rabbit liver are associated with hydroxysteroid dehydrogenases and aldo-keto reductases. Eur. J. Biochem. 205: 1155-1162, 1992.

444. Wieser, R.J.; Engel, R.; Müller, G.; Schütz, S. and Oesch, F.: Wachstumsregulation durch Zell-Zellkontakte. Forschungsmagazin der Johannes Gutenberg-Universität Mainz 8: 63-74, 1992.

445. Jung, D.; Klein, S.; fuchs, J.; Engel-Jung, J.; Krämer, I.; Beyermann, P.; Oesch, F. and Konietzko, J.: Genmonitoring bei Zytostatika zubereitendem pharmazeutischem Personal. Krankenhauspharmazie 13: 101-104, 1992.

446. Steinberg, P. and Oesch, F.: Liver cell specific toxicity of xenobiotics. In: Tissue specific toxicity: Biochemical Mechanisms (eds. Dekant, W. and Neumann, H.G.), Academic Press, London, pp. 117-137, 1992.

447. Utesch, D.; Diener, B.; Molitor, E.; Oesch, F. and Platt, K.L.: Characterization of cryopreserved rat liver parenchymal cells by metabolism of diagnostic substrates and activities of related enzymes. Biochem. Pharmacol. 44: 309-315, 1992.

448. Jennings, G.S.; Oesch, F. and Steinberg, P.: In vivo formation of aflatoxin B1-DNA adducts in parenchymal and non-parenchymal cells of rat liver. Carcinogenesis 13: 831-835, 1992.

449. Klein, J.; Post, K.; Seidel, A.; Frank, H.; Oesch, F. and Platt, K.L.: Quinone reduction and redox cycling catalyzed by purified rat liver dihydrodiol/3□-hydroxysteroid dehydrogenase. Biochem. Pharmacol. 44: 341-349, 1992.

450. Wieser, R.; Engel, R. and Oesch, F.: Chemotactic migration of human diploid fibroblasts is inhibited by contactinhibin. In Vitro Cell. Dev. Biol. 28: 233-234, 1992.

451. Klein, S. and Oesch, F.: Assay for O6-alkylguanine-DNA-alkyltransferase using oligonucleotides containing O6-methylguanine in a Bam HI recognition site as substrate. Analyt. Biochem. 205: 294-299, 1992.

452. Utesch, D. and Oesch, F.: Phenol sulfotransferase activity in rat liver parenchymal cells cultured on collagen gels. Drug Metab. Dispos. 20: 614-615, 1992.

453. Gebel, T.; Arand, M. and Oesch, F.: Induction of the peroxisome proliferator activated receptor by fenofibrate in rat liver. FEBS Lett. 309: 37-40, 1992.

454. Tanner, B.; Friedberg, T.; Beck, T.; Mitze, M.; Weikel, W.; Oesch, F. and Knapstein, P.G.: Molekulargenetischer und immunhistologischer Nachweis der Onkogenprodukte des c-erbB-2 in Mammakarzinomen. Tumordiagn. Ther. 13: 24-29, 1992.

455. Jernström, B.; Seidel, A.; Funk, M.; Oesch, F. and Mannervik, B.: Glutathione conjugation of trans-3,4-dihydroxy 1,2-epoxy 1,2,3,4-tetrahydrobenzo[c]phenanthrene isomers by human glutathione transferases. Carcinogenesis 13: 1549-1555, 1992.

456. Doehmer, J.; Wölfel, C.; Dogra, S.; Doehmer, C.; Seidel, A.; Platt, K.L.; Oesch, f. and Glatt, H.R.: Applications of stable V79-derived cell lines expressing rat cytochromes P4501A1, 1A2 and 2B1. Xenobiotica 22: 1093-1099, 1992.

457. Friedberg, T.; Grassow, M.a.; Bartlomowicz-Oesch, B.; siegert, P.; Arand, M.; Adesnik, M. and Oesch, f.: Sequence of a novel cytochrome Cyp2B cDNA coding for a protein which is expressed in a sebaceous gland but not in the liver. Biochem. J. 287: 775-783, 1992.

458. Oesch, F.; Wagner, H.; Platt, K.L. and Arand, M.: Improved sample preparation for the testosterone hydroxylation assay using disposable extraction columns. J. Chromatogr. 582: 232-235, 1992.

459. Glatt, H.R.; Becker, R.; Piée, A.; Oesch, F. and Friedberg, T.: Stable expression of heterologous microsomal epoxide hydrolase in BHK21 cells: influence on the mutagenicity of benzo[a]pyrene 4,5-oxide. In: Environmental Hygiene III (eds. Seemayer, N.H. and Hadnagy, W.), Springer Publishing Company, Heidelberg, pp. 67-70, 1992.

460. Jung, D.; Konietzko, J.; Klein, S.; Fuchs, J.; Engel-Jung, J.; Krämer, J.; Beyermann, P. and Oesch, F.: Genotoxisches Monitoring bei Zytostatika-zubereitendem Personal. In: Verhandlungen der Deutschen Gesellschaft für Arbeitsmedizin, 32. Jahrestagung (eds. Kreutz, R. and Piekarski, C.), Gentner Verlag Stuttgart, pp. 486-488, 1992.

461. Fuchs, J.; Wullenweber, U.; Oesch, F.; Bienfait, H.G. and Hiltl, G.: DNA-Schäden bei gegenüber Ethylenoxid exponierten Arbeitnehmern. In: Verhandlungen der Deutschen Gesellschaft für Arbeitsmedizin, 32. Jahrestagung (eds. Kreutz, R. and Piekarski, C.), Gentner Verlag Stuttgart, pp. 495-498, 1992.

462. Oesch, F.: Xenobiotic metabolizing enzymes as regulators of toxicity. In: The Toxicology Forum, 1992 Annual European Meeting (ed. shubik, P.), Caset Publishing Company, Fairfax, Virginia, pp. 354-360, 1992.

463. Hengstler, J.G.; Fuchs, J. and Oesch, F.: DNA strand breaks and DNA crosslinks in peripheral mononuclear blood cells of ovarian cancer patients during chemotherapy with cyclophosphamide/carboplatin. Cancer Res. 52: 5622-5626, 1992.

464a. Oesch, F.; Oesch-Bartlomowicz, B.; Arens, H.J.; Friedberg, T.; Utesch, D.; Glatt, H.R. and Platt, K.L.: Molecular and cellular basis for adequate metabolic design of genotoxicity studies. In: Toxicology from Discovery and Experimentation to the Human Perspective (eds. P.L. Chambers, C.M. Chambers, H.M. Bolt and P. Preziosi), Elsevier, Amsterdam-London-New York-Tokyo, pp. 643-649, 1992.

464b. Oesch, F.; Oesch-Bartlomowicz, B.; Arens, H.J.; Friedberg, T.; Utesch, D.; Glatt, H.R. and Platt, K.L.: Molecular and cellular basis for adequate metabolic design of genotoxicity studies. Toxicol. Lett. 64/65: 643-649, 1992.

465. Knehr, M.; Arand, M.; Hagen, M.; Zeller, H.-D.; Thomas, H. and Oesch, F.: The use of the PCR technique in cloning low abundant genes: isolation of a cytosolic epoxide hydrolase cDNA. In: Europ. Biotechnol. Today: The Impact of Basic Sciences on Diagnosis and Therapy (eds. Malavasi, F.; Cortese, R. and Albertini, A.), Intercept Publishers, Andover, UK, pp. 217-222, 1992.

466. Arand, M.; Friedberg, T. and Oesch, F.: Colorimetric quantitation of trace amounts of sodium lauryl sulfate in the presence of nucleic acids and proteins. Analyt. Biochem. 207: 73-75, 1992.

467. Utesch, D.; Arand, M.; Thomas, H.; Petzinger, E. and Oesch, F.: Xenobiotic-metabolizing enzyme activities in hybrid cell lines established by fusion of primary rat liver parenchymal cells with hepatoma cells. Xenobiotica 22: 1451-1457, 1992.

468. Hengstler, J.; Löffler, S.; Schaefer, M.; Glatt, H.R.; Fuchs, J.; Flesch, P. and Oesch, F.: DNA strand break induction, mutagenicity, and cytotoxicity of the mycotoxins 11-ß-hydroxy-7-deoxy-rosenonolactone, rosenonolactone and trichothecin. Mycotoxin Res. 8: 77-83, 1992.

469. Oesch, F.; Friedberg, T.; Glatt, H.-R.; Oesch-Bartlomowicz, B.; Platt, K.L. and Thomas, H.: The role of individual carcinogen metabolizing enzymes in chemical carcinogenesis. In: Chemical Carcinogenesis (eds. Somogyi, A.; Appel, K.E. and Katenkamp, A.), bga Schriften 3/92, MMV-Medizinverlag München, pp. 157-164, 1992.

470. Hacker, H.J.; Steinberg, P.; Toshkov, I.; Oesch, F. and Bannasch, P.: Persistence of the cholangiocellular and hepatocellular lesions observed in rats fed a choline-deficient/DL-ethionine-supplemented diet. Carcinogenesis 13: 271-276, 1992.

471. Steinberg, P.; Störkel, S.; Oesch, F. and Thoenes, W.: Carbohydrate metabolism in human renal clear cell carcinomas. Lab. Invest. 67: 506-511, 1992.

472. Tanner, B.; Friedberg, T.; Mitze, M.; Beck, T.; Oesch, F. and Knapstein, P.-G.: C-erbB-2-oncogene expression in breast carcinoma: analysis by S1 nuclease protection assay and immunohistochemistry in relation to clinical parameters. Gynecol. Oncol. 47: 228-233, 1992.

473. Heberer, H.; Angerer, J.; Oesch, F. and Klein, S.: Lösung arbeitsmedizinischer Probleme durch Betriebe und Universitäten - Beispiel Vinylchlorid. In: Krebsrisiken am Arbeitsplatz (eds. A. Horst; K. Norpoth and C. Verkoyen), Springer-Verlag, Berlin, pp. 19-31, 1992.

474. Fuchs, J. and Oesch, F.: Die Verwendung der alkalischen Filterelution zur Detektion genschädigender Belastungen am Arbeitsplatz [Usage of the alkaline filter elution for monitoring the genotoxic working place-related risk]. In: Krebsrisiken am Arbeitsplatz (eds. A. Horst; K. Norpoth and C. Verkoyen), Springer-Verlag, Berlin, pp. 127-139, 1992.

475. Glatt, H.R.; Wameling, C.; Elsberg, S.; Thomas, H.; Marquardt, H.; Hewer, A.; Phillips, D.H.; Oesch, F. and Seidel, A.: Genotoxicity characteristics of reverse diol-epoxides of chrysene. Carcinogenesis 14: 11-19, 1993.

476. Utesch, D.; Traiser, M.; Gath, I.; Dorresteijn, A.W.C.; Maier, P. and Oesch, F.: Effects of sodium butyrate on DNA content, glutathione S-transferase activities, cell morphology and growth characteristics of rat liver nonparenchymal epithelial cells in vitro. Carcinogenesis 14: 457-462, 1993.

477. Mlcoch, J.; Fuchs, J.; Oesch, F. and Platt, K.L.: Characterization of DNA adducts at the bay region of dibenz[a,h]anthracene formed in vitro. Carcinogenesis 14: 469-473, 1993.

478a. Steinbrecher, T.; Wameling, C.; Oesch, F. and Seidel, A.: Die Aktivierung der C-2-Position von Purin durch die Trifluormethansulfonatgruppe: Synthese von N2-alkylierten Desoxyguanosinen. Angewandte Chemie 105: 408-410, 1993.

478b. Steinbrecher, T.; Wameling, C.; Oesch, F. and Seidel, A.: Activation of the C2 position of purine by the trifluoromethanesulfonate group: synthesis of N2-alkylated deoxyguanosines. Angew. Chem. Int. Ed. Engl. 32: 404-406, 1993.

479. Pack, R.; Heck, R.; Dienes, H.P.; Oesch, F. and Steinberg, P.: Isolation, biochemical characterization, long-term culture, and phenotype modulation of oval cells from carcinogen-fed rats. Exp. Cell Res. 204: 198-209, 1993.

480. Steinbrecher, T.; Becker, A.; Stezowski, J.J.; Oesch, F. and Seidel, A.: Synthesis of oligodeoxynucleotides containing diastereomeric dihydrodiol epoxide-N6-deoxyadenosine adducts of polycyclic aromatic hydrocarbons. Tetrahedron Lett. 34: 1773-1774, 1993.

481. Diener, B.; Utesch, D.; Beer, N.; Dürk, H. and Oesch, F.: A method for the cryopreservation of liver parenchymal cells for studies of xenobiotics. Cryobiology 30: 116-127, 1993.

482. Fuchs, J.; Mlcoch, J.; Platt, K.-L. and Oesch, F.: Characterization of highly polar bis-dihydrodiol epoxide-DNA adducts formed after metabolic activation of dibenz[a,h]anthracene. Carcinogenesis 14: 863-867, 1993.

483. Fuchs, J.; Mlcoch, J.; Oesch, F. and Platt, K.-L.: Characterization of highly polar DNA adducts derived from dibenz[a,h]anthracene (DBA), 3,4-dihydroxy-3,4-dihydro-DBA, and 3,4,10,11-tetrahydroxy-3,4,10,11-tetrahydro-DBA. Toxicol. Industrial Health 9: 503-509, 1993.

484. Knehr, M.; Thomas, H.; Arand, M.; Gebel, T.; Zeller, H.-D. and Oesch, F.: Isolation and characterization of a cDNA encoding rat liver cytosolic epoxide hydrolase and its functional expression in Escherichia coli. J. Biol. Chem. 268: 17623-17627, 1993.

485. Schaumann, Ch.; Oesch, F.; Unger, K.K. and Wieser, R.J.: Analytical technique for studying the structure of glycoprotein N-glycans. J. Chromatogr. 646: 227-234,1993.

486. Wameling, C.; Glatt, H.R.; Oesch, F. and Seidel, A.: Stereospecific synthesis of the diastereomeric "reverse" dihydrodiol epoxides of chrysene and picene. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 191-198, 1993.

487. Platt, K.L.; Setiabudi, F. and Oesch, F.: Regiospecific carrier-free radiosynthesis of [5,12-14C]dibenz[a,h]anthracene. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 199-205, 1993.

488. Funk, M.; Frank, H.; Platt, K.L.; Oesch, F. and Seidel, A.: Synthesis and characterization of glutathione conjugates of diastereomeric bay- and fjord-region dihydrodiol epoxide. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 207-214, 1993.

489. Steinbrecher, T.; Wameling, C.; Oesch, F. and Seidel, A.: Synthesis of polycyclic aromatic hydrocarbon adducts attached to the exocyclic amino group of 2‘-deoxyguanosine via nucleophilic substitution. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 223-230, 1993.

490. Glatt, H.R.; Wameling, C.; Elsberg, S.; Thomas, H.; Marquardt, H.; Hewer, A.; Phillips, D.H.; Oesch, F. and Seidel, A.: "Reverse" diol-epoxides of chrysene: Genotoxicity characteristics. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 879-886, 1993.

491. Reichert, S.; Doehmer, J.; Frank,H.; Oesch, F. and Platt, K.L.: Stereoselective formation of picene trans-3,4-dihydrodiol by rat liver microsomes and by a cell line which stably expresses cytochrome P540c (P4501A1). In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 895-903, 1993.

492. Lecoq, S.; Pfau, W.; Ni She, M.; Platt, K.L.; Seidel, A.; Oesch, F.; Phillips, D.H. and Grover, P.L.: Comparison of the metabolic activation of dibenz[a,h]anthracene and picene using 32P-postlabelling. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 921-928, 1993.

493. Platt, K.L.; Schollmeier, M.; Frank, H. and Oesch, F.: Bisdihydrodiol epoxides play a dominant role in the stereoselective biotransformation of dibenz[a,h]anthracene to genotoxic metabolites. In: Polycyclic Aromatic Compounds (eds. P. Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 1141-1150, 1993.

494. Glatt, H.R.; Pauly, K.; Wölfel, C; Dogra, S; Seidel, A; Lee, H.; Harvey, R.G.; Oesch, F. and Doehmer, J.: Stable expression of heterologous cytochromes P450 in V79 cells: Mutagenicity studies with polycyclic aromatic hydrocarbons. In: Polycyclic Aromatic Compounds (eds. P.

Garrigues and M. Lamotte). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 1167-1174, 1993.

495. Monnerjahn, S.; Seidel, A.; Steinberg, P.; Oesch, F.; Hinz, M.; Stezowsky, J.J.; Hewer, A.; Phillips, D.H. and Glatt, H.R.: Formation of DNA adducts from 1-hydroxymethylpyrene in liver cells in vivo and in vitro. In: Postlabelling Methods for Detection of DNA Adducts (eds. D.H. Phillips, M. Castegnaro and H. Bartsch), International Agency for Research on Cancer, Lyon, pp. 189-193, 1993.

496. Fuchs, J. and Oesch, F.: Die Berücksichtigung von unterschiedlich empfindlichen Subpopulationen bei der Beurteilung einer potentiell kanzerogenen Arbeitsplatzexposition am Beispiel einer Ethylenoxid-Exposition. In: Arbeitsmedizin und Umweltmedizin: Erkrankungen durch Lösungsmittelgemische (eds. G. Triebig and O. Stelzer), Deutsche Gesellschaft für Arbeitsmedizin und Umweltmedizin e.V., Gentner Verlag, Stuttgart, pp. 221-224, 1993.

497. Glatt, H.R.; Doehmer, J.; Dogra, S.; Friedberg, T. and Oesch, F.: Gene technological construction of cells expressing single cytochromes P450: use in mutagenicity investigation on aflatoxin B1 and benzo[a]pyrene-7,8-dihydrodiol. International Programme on Chemical Safety, World Health Organization, WHO/PCS 41: 165-175,1993.

498. Krämer, A.; Pudil, J.; Frank, H.; Oesch, F. and Glatt, H.R.: Some substrates and inhibitors of cytosolic epoxide hydrolase induce sister-chromatid exchanges in mammalian cells, but do not induce gene mutations in Salmonella typhimurium and V79 cells. Mutat. Res. 290: 165-174, 1993.

499. Carmichael, P.L.; Platt, K.L.; Ní Shé, M.; Lecoq, S.; Oesch, F.; Phillips, D.H. and Grover, P.L.: Evidence for the involvement of a bis-diol-epoxide in the metabolic activation of dibenz[a,h]anthracene to DNA-binding species in mouse skin. Cancer Res. 53: 944-948, 1993.

500. Snyder, R.; Chepiga, T.; Yang, C.S.; Thomas, H.; Platt, K. and Oesch, F.: Benzene metabolism by reconstituted cytochromes P450 2B1 and 2E1 and its modulation by cytochrome b5, microsomal epoxide hydrolase, and glutathione transferases: evidence for an important role of microsomal epoxide hydrolase in the formation of hydroquinone. Toxicol. Appl. Pharmacol. 122: 172-181, 1993.

501. Lorenz, J.; Friedberg, T.; Paulus, R.; Oesch, F. and Ferlinz, R.: Oncogene overexpression in non-small-cell lung cancer tissue: prevalence and clinicopathological significance. Clin. Investig. 72: 156-163, 1994.

502. Oesch, F. and Diener, B.: Rational species extrapolation of toxic effects. In: Use of Mechanistic Information in Risk Assessment (eds. H.M. Bolt, B. Hellman and L. Dencker). Springer-Verlag, Berlin, Heidelberg, pp. 161-168, 1994.

503. Arand, M; Grant, D.F.; Beetham, J.K.; Friedberg, T.; Oesch, F. and Hammock, B.D.: Sequence similarity of mammalian epoxide hydrolases to the bacterial haloalkane dehalogenase and other related proteins; Implication for the potential catalytic mechanism of enzymatic epoxide hydrolysis. FEBS Lett. 338: 251-256, 1994.

504. Steinberg, P.; Weiße, G.; Eigenbrodt E. and Oesch, F.: Expression of L- and M2-pyruvate kinases in proliferating oval cells and cholangiocellular lesions developing in the livers of rats fed a methyl-deficient diet. Carcinogenesis, 15: 125-127, 1994.

505. Hammock, B.D.; Pinot, F.; Beetham, J.K.; Grant, D.F.; Arand, M.E. and Oesch, F.: Isolation of a putative hydroxyacyl enzyme intermediate of an epoxide hydrolase. Biochem. Biophys. Res. Commun. 198: 850-856, 1994.

506. Diener, B.; Beer, N; Dürk, H.; Traiser, M.; Utesch, D.; Wieser, R.J. and Oesch, F.: Gap junctional intercellular communication of cultured rat liver parenchymal cells is stabilized by epithelial cells and their isolated plasma membranes. Experientia 50: 124-126,1994.

507. Funk, M.; Frank, H.; Oesch, F. and Platt, K.L.: Development of chiral stationary phases for the enantiomeric resolution of dihydrodiols of polycyclic aromatic hydrocarbons by □ -donor-acceptor interactions. J. Chromatogr. A 659: 57-68, 1994.

508. Hengstler, J.G.; Fuchs, J.; Gebhard, S. and Oesch, F.: Glycolaldehyde causes DNA-protein crosslinks: a new aspect of ethylene oxide genotoxicity. Mutat. Res. 304: 229-234, 1994.

509. Post, K.; Seidel, A.; Platt, K.L.; Oesch, F. and Klein, J.: Regiospecific reduction of polycyclic aromatic quinones by rabbit liver dihydrodiol dehydrogenases. Chem.-Biol. Interactions 90: 157-168, 1994.

510. Oesch, F.; Hengstler, J.G. and Fuchs, J.: Cigarette smoking protects mononuclear blood cells of carcinogen exposed workers from additional work exposure-induced DNA single strand breaks. Mutat. Res. 321: 175-185, 1994.

511. Steinberg, P.; Steinbrecher, R.; Schrenk, D.; Münzel, P.; Bruck, M.; Gschaidmaier, H.; Oesch, F. and Bock, K.W.: Drug-metabolizing enzyme activities in freshly solated oval cells and in an established oval cell line from carcinogen-fed rats. Cell Biol. Toxicol. 10: 59-65, 1994.

512. Fuchs, J.; Wullenweber, U.; Hengstler, J.G.; Bienfait, H.G.; Hiltl, G. and Oesch, F.: Genotoxic risk for humans due to work place exposure to ethylene oxide: remarkable individual differences in susceptibility. Arch. Toxicol. 68: 343-348, 1994.

513. Oesch, F.; Weiß, C.-M. and Klein, S.: Use of oligonucleotides containing ethenoadenine to study the repair of this DNA lesion. Determination of individual and collective repair activities. Arch. Toxicol. 68: 358-363, 1994.

514. Funk, M.; Gath, I.; Seidel, A.; Platt, K.-L.; Oesch, F. and Zeller, H.-D.: Different enzyme kinetics during the glutathione conjugation of the four stereoisomers of the fjord-region diolepoxides of benzo[c]phenanthrene by the □-class rat liver glutathione S-transferase HTP II. Biochem. Pharmacol. 47: 505-514, 1994.

515. Traiser, M.; Diener, B.; Fändrich, F.; Vogel, I.; Leissner, J.; Hohenfellner, R.; Utesch, D. and Oesch, F.: Isolation and cryopreservation of human hepatocytes. Transplantationsmedizin 6: 84-90, 1994.

516. Glatt, H.R.; Seidel, A.; Oesch, F. and Gumbsch, A.: Fjord-region diol-epoxides of benzo[c]chrysene are potent inducers of micronuclei in murine bone marrow. Mutat. Res. 309, 37-43, 1994.

517. Friedberg, T.; Becker, R.; Oesch, F. and Glatt, H.R.: Studies on the importance of microsomal epoxide hydrolase in the detoxication of arene oxides using the heterologous expression of the enzyme in mammalian cells. Carcinogenesis 15: 171-175, 1994.

518. Oesch, F.; Oesch-Bartlomowicz, B.; Glatt, H.R.; Platt, K.-L. and Arand, M.: Importance of individual enzymes in the control of ultimate carcinogens. In: Cytochrome P450. 8th International Conference. (ed. Lechner, M.C.), John Libbey Eurotext, Paris, pp. 147-153, 1994.

519. Oesch, F. and Arand, M.: Induction of drug-metabolizing enzymes by short/intermediate-term exposure to peroxisome proliferators: a synopsis. In: Peroxisome Proliferators: Unique Inducers of Drug-Metabolizing Enzymes (ed. Moody, D.E.), CRC Press, Boca Raton, pp. 161-174, 1994.

520. Seidel, A.; Luch, A.; Platt, K.L.; Oesch, F. and Glatt, H.R.: Activated fjord-region metabolites of dibenzo[a,l]pyrene: synthesis and mutagenic activities of the diastereomeric syn- and anti-11,12-dihydrodiol 13,14-epoxides. In: Polycyclic Aromatic Compounds (eds. M. Zander, G. Grimmer, W.C. Herndon, E.J. La Voie, V. Snieckus, T. Vo-Dinh and C.M. White). Gordon and Breach Science Publishers, Amsterdam, Netherlands, pp. 191-198, 1994

521. Strolin-Benedetti, M.; Marrari, P.; Colombo, M.; Castelli, M.G.; Arand, M.; Oesch, F. and Dostert, P.: The anticonvulsant FCE 26743 is a selective and short-acting MAO-B inhibitor devoid of inducing properties towards cytochrome P450-dependent testosterone hydroxylation in mice and rats. J. Pharm. Pharmacol. 46: 814-819, 1994.

522. Diener, B.; Traiser, M.; Arand, M.; Leissner, J.; Witsch, U.; Hohenfellner, R.; Fändrich, F.; Vogel, I.; Utesch, D. and Oesch, F.: Xenobiotic metabolizing enzyme activities in isolated and cryopreserved human liver parenchymal cells. Toxicol. in Vitro 8: 1161-1166, 1994.

523. Oesch, F.; Oesch-Bartlomowicz, B.; Arens, J.; Fändrich, F.; Vogel, E.; Friedberg, T. and Glatt, H.R.: Mechanism-based predictions of interactions. Environm. Health Perspect. 102: 5-9, 1994.

524. Thomas, H.; Strolin-Benedetti, M.; Dostert, P. and Oesch, F.: The effect of indobufen on the activities of selected rat liver phase I and phase II drug metabolizing enzymes, peroxisomal ß-oxidation and hepatic glutathione status. J. Pharm. Pharmacol. 46: 833-837, 1994.

525. Oesch, F.: Fremdstoffmetabolismus. In: Lehrbuch der Toxikologie (eds. H. Marquardt and S.G. Schäfer). B.I.-Wissenschaftsverlag, Mannheim, pp. 68-93, 1994.

526. Glatt, H.R.; Pauly, K.; Frank, H.; Seidel, A.; Oesch, F.; Harvey, R.G. and Werle-Schneider, G.: Substance-dependent sex differences in the activation of benzylic alcohols to mutagens by hepatic sulfotransferases of the rat. Carcinogenesis 15: 2605-2611, 1994.

527. Friedberg, T.; Löllmann, B.; Becker, R.; Holler, R. and Oesch, F.: The microsomal epoxide hydrolase has a single membrane signal anchor sequence which is dispensable for the catalytic activity of this protein. Biochem. J. 303: 967-972, 1994.

528. Arand, M., Friedberg, T. and Oesch, F.: Monitoring sodium lauryl sulfate (SDS) contamination. In: Cell Biology: A Laboratory Handbook, Vol. 2 (ed. Celis, J.E.), Academic Press, San Diego, pp. 276-278, 1994.

529. Luch, A.; Glatt, H.R.; Platt, K.L.; Oesch, F. and Seidel, A.: Synthesis and mutagenicity of the diastereomeric fjord-region 11,12-dihydrodiol 13,14-epoxides of dibenzo[a,l]pyrene. Carcinogenesis 15: 2507-2516, 1994.

530. Steinberg, P.; Steinbrecher, R.; Radaeva, S.; Schirmacher, P.; Dienes, H.P.; Oesch, F. and Bannasch, P.: Oval cell lines OC/CDE 6 and OC/CDE 22 give rise to cholangio-cellular and undifferentiated carcinomas after transformation. Lab. Invest. 71: 700-709, 1994.

531. Schuler, M.; Hengstler, J.G., Oesch, F. and Huber, Ch.: Sekundäre Neoplasien nach Immunsuppression. Dtsch. med. Wschr. 119: 1747-1754, 1994.

532. Dunkelberg, H.; Fuchs, J.; Hengstler, J.G.; Klein, E.; Oesch, F. and Strüder, K.: Genotoxic effects of the herbicides alachlor, atrazine, pendimethaline, and simazine in mammalian cells. Bull. Environ. Contam. Toxicol. 52: 498-504, 1994.

533. Jennings, G.S.; Heck, R.; Oesch, F. and Steinberg, P.: Metabolism and cytotoxicity of aflatoxin B1 in cultured rat hepatocytes and nonparenchymal cells: implications for tumorigenesis. Toxicol. Appl. Pharmacol. 129: 86-94, 1994.

534. Arand, M., Gath, I., Thomas, H. and Oesch, F.: Die Komplexität fremdstoff-metabolisierender Systeme am Beispiel der Glutathion S-Transferasen. In: Fremdstoffmetabolismus und Klinische Pharmakologie (eds. Dengler, H.J. and Mutschler, E.), Gustav Fischer Verlag, Stuttgart, pp. 123-140, 1994.

535. Blumrich, M.; Pack, R.; Oesch, F.; Petzinger, E. and Steinberg, P.: Deficiency of bile acid transport and synthesis in oval cells from carcinogen-fed rats. Hepatology 19: 722-727, 1994.

536. Beetham, J.K.; Grant, D.; Arand, M.; Garbarino, J.; Kiyosue, T.; Pinot, F.; Oesch, F.; Belknap, W.R.; Shinozaki, K. and Hammock, B.: Gene evolution of epoxide hydrolases and recommended nomenclature. DNA Cell Biol. 14: 61-71, 1995.

537. Diener, B.; Abdel-Latif, H.; Arand, M. and Oesch, F.: Xenobiotic metabolizing enzyme activities and viability are well preserved in EDTA-isolated rat liver parenchymal cells after cryopreservation. Toxicol. Appl. Pharmacol. 130: 149-153, 1995.

538. Härtter, S.; Arand, M; Oesch, F. and Hiemke, C.: Non competitive inhibition of clomipramine N-demethylation by fluvoxamine. Psychopharmacology 117: 149-153, 1995.

539. Oesch, F.; Arens, H.J.; Fändrich, F.; Friedberg, T.; Richter, B.; Yamazaki, H. and Oesch-Bartlomowicz, B.: Significance of posttranslational modification of drug metabolizing enzymes by phosphorylation for the control of carcinogenic metabolites. NATO ASI Series H90: 411-427, 1995.

540. Fuchs, J.; Hengstler, J.G.; Jung, D.; Hiltl, G.; Konietzko, J. and Oesch, F.: DNA damage in nurses handling antineoplastic agents. Mutat. Res. 342: 17-23, 1995.

541. Fuchs, J.; Burg, J.; Hengstler, J.G.; Bolm-Audorff, U. and Oesch, F.: DNA damage in mononuclear blood cells of metal workers exposed to N-nitrosodiethanolamine in synthetic cutting fluids. Mutat. Res. 342: 95-102, 1995.

542. Diener, B.; Becker, R.; Martus, H.-J.; Traiser, M.; Steinberg, P. and Oesch, F.: Malignantly transformed non-parenchymal liver epithelial cells and transformed oval cells suppress the homotypical gap junctional intercellular communication of co-cultured rat liver parenchymal cells. Carcinogenesis 16: 633-636, 1995.

543. Brenner, W.; Langer, P.; Oesch, F.; Edgell, C.-J.S. and Wieser R.J.: Tumor cell - endothelium adhesion in an artificial venule. Anal. Biochem. 225: 213-219, 1995.

544. Oesch, F.; Fuchs, J.; Vaupel, J. and Hengstler, J.G.: DNA single strand break analysis in mononuclear blood cells of petrol pump attendants. Int. Arch. Occup. Environ. Health 67: 35-39, 1995.

545. Oesch, F. and Diener, B.: Cell systems for use in studies on the relationship between foreign compound metabolism and toxicity. Pharmac. Toxicol. 76: 325-327, 1995.

546. Gradl, G.; Faust, D.; Oesch, F. and Wieser, R.J.: Density-dependent regulation of cell growth by contactinhibin and the contactinhibin receptor. Current Biology 5: 526-535, 1995.

547. Hengstler, J.G.; Fuchs, J.; Bolm-Audorff, U.; Meyer, S. and Oesch, F.: Single-strand breaks in deoxyribonucleic acid in fire fighters accidentally exposed to o-nitroanisole and other chemicals. Scand. J. Work Environ. Health 21: 36-42, 1995.

548. Oesch, F.; Hengstler, J.G.; Arand, M. and Fuchs, J.: Detection of primary DNA damage: applicability to biomonitoring of genotoxic occupational exposure and in clinical therapy. Pharmacogenetics 5: S118-S122, 1995.

549. Funk, M.; Gath, I.; Seidel, A.; Oesch, F. and Platt, K.L.: Conjugation of anti-dihydrodiol epoxides of benzo[a]pyrene, chrysene, benzo[c]phenanthrene and dibenz[a,h]anthracene with glutathione catalyzed by cytosol and by the Mu-class glutathione transferase HTP II from rat liver. Chem.-Biol. Interact. 95: 189-201, 1995.

550. Fändrich, F.; Degiuli, B.; Vogel-Bindel, U.; Arand, M. and Oesch, F.: Induction of rat liver microsomal epoxide hydrolase by its endogenous substrate 16□,17□-epoxyestra-1,3,5-trien-3-ol. Xenobiotica 25: 239-244, 1995.

551. Traiser, M.; Diener, B.; Utesch, D. and Oesch, F.: The gap junctional intercellular communication is no prerequisite for the stabilization of xenobiotic metabolizing enzyme activities in primary rat liver parenchymal cells in vitro. In Vitro Cell. Dev. Biol. 31: 266-273, 1995.

552. Oesch, F.; Fändrich, F.; Glatt, H.R.; Oesch-Bartlomowicz, B.; Platt, K.-L. and Utesch, D.: Use of mechanistic information for adequate metabolic design of genotoxicity studies and toxicological interactions of drugs and environmental chemicals. In: Molecular Aspects of Oxidative Drug Metabolizing Enzymes (eds. Annç, E., Schenkman, J.B. and Hodgson, E.), NATO ASI Series, Vol. H90, Springer-Verlag Berlin Heidelberg, pp. 397-409, 1995.

553. Wieser, R.J. and Oesch, F.: Molekulare Grundlagen der Wachstumsregulation durch Zellkontakte. Med. Welt 46: 272-279, 1995.

554. Wieser, R.J.; Baumann, C.E. and Oesch, F.: Cell-contact mediated modulation of contactinhibin-sialylation. Glycoconjugate J. 12: 672-679, 1995.

555. Honscha, W.; Platte, H.-D.; Oesch, F. and Friedberg, T.: Relationship between the microsomal epoxide hydrolase and the hepatocellular transport of bile acids and xenobiotics. Biochem. J. 311: 975-979, 1995.

556. Oesch, F.; Abdel-Latif, H. and Diener, B.: Viability, attachment efficiency, and xenobiotic metabolizing enzyme activities are well maintained in EDTA isolated rat liver parenchymal cells after hypothermic preservation for up to 3 days in University of Wisconsin solution. In Vitro Cell. Dev. Biol. 31: 590-594, 1995.

557. Oesch, F.; Oesch-Bartlomowicz, B. and Glatt, H.R.: Importance of individual enzymes in the control of ultimate carcinogens. In: Pharmacological Sciences: Perspectives for Research and Therapy in the Late 1990‘s (eds. Cuello, C. and Collier, B.). Birkhäuser Publishing Company, pp. 435-439, 1995.

558. Oesch, F.; Essigmann, J.M.; Kemp, C.J.; Kuroki, T. and Goodman, J.I.: Molecular and cellular aspects of chemical carcinogenesis. In: Pharmacological Sciences: Perspectives for Research and Therapy in the Late 1990‘s (eds. Cuello, C. and Collier, B.). Birkhäuser Publishing Company, pp. 441-446, 1995.

559. Diener, B. and Oesch, F.: Cryopreserved and hypothermically stored rat liver parenchymal cells as metabolizing system in the Salmonella mutagenicity assay. Mutat. Res. 335: 309-316, 1995.

560. Becker, R. and Oesch, F.: In vitro test systems for identifying potential chemical carcinogens. Chimia 49: 361-364, 1995.

561. Seidel, A.; Oesch, F. and Steinberg, P.: Malignant transformation of the liver tumour precursor cell line OC/CDE 22 by the four stereoisomeric fjord region 3,4-dihydrodiol 1,2-epoxides ob benzo[c]phenanthrene. Carcinogenesis 16: 2111-2115, 1995.

562. Steinberg, P.; Steinbrecher, R.; Blumrich, M.; Oesch, F. and Petzinger, E.: Potential liver stem cells ("oval cells") and their capacity to transport bile acids. In: Cell Biology and Molecular Basis of Liver Transport (eds. Wehner, F. and Petzinger, E.), Projekt Verlag, Dortmund, pp. 55-59, 1995.

563. Arand, M.; Wagner, H. and Oesch, F.: Asp333, Asp495, and His523 form the catalytic triad of rat soluble epoxide hydrolase. J. Biol. Chem. 271: 4223-4229, 1996.

564. Fuchs, J.; Hengstler, J.G.; Boettler, G. and Oesch, F.: Primary DNA damage in peripheral mononuclear blood cells of workers exposed to bitumen-based products. Int. Arch. Occup. Environ. Health 8: 141-146, 1996.

565. Arand, M.; Mühlbauer, R.; Hengstler, J.; Jäger, E.; Fuchs, J.; Winkler, L. and Oesch, F.: A multiplex polymerase chain reaction protocol for the simultaneous analysis of the glutathione S-transferase GSTM1 and GSTT1 polymorphisms. Anal. Biochem. 236: 184-186, 1996.

566. Jäger, E.; Ringhoffer, M.; Karbach, J.; Arand, M.; Oesch, F. and Knuth, A.: Inverse relationship of melanocyte differentiation antigen expression in melanoma tissues and CD8+ cytotoxic T-cell responses: Evidence for immunoselection of antigen-loss variants in vivo. Int. J. Cancer 66: 470-476, 1996.

567. Jung, D.; Clark, G.; Hengstler, J.; Uhrig, P.; Edler, L.; Needham, L.; Lucier, G.; Patterson, D.; Oesch, F. and Konietzko, J.: Ah-Rezeptor, Enzymaktivität und Dioxinspiegel. Forum DKG 11: 108-110, 1996.

568. Oesch, F.; Arand, M.; Strolin-Benedetti, M.; Castelli, M.G. and Dostert, P.: Inducing properties of rifampicin and rifabutin for selected enzyme activities of the cytochrome P-450 and UDP-glucuronosyltransferase superfamilies in female rat liver. J. Antimicrobial Chemotherapy 37: 1111-1119, 1996.

569. Friedberg, T.; Löllmann, B.; Becker, R.; Holler, R.; Arand, M. and Oesch, F.: Investigating the role of the microsomal epoxide hydrolase membrane topology and its implication for drug

metabolism pathways. In: Biological Reactive Intermediates V (eds. R. Snyder et al.), Plenum Press, New York, pp. 17-24, 1996.

570. Arand, M.; Hinz, W.; Müller, F.; Hänel, K.; Winkler, L.; Mecky, A.; Knehr, M.; Dürk, H.; Wagner, H.; Ringhoffer, M. and Oesch, F.: Structure and mechanism of soluble epoxide hydrolase and its relation to microsomal epoxide hydrolase. In: Control Mechanisms of Carcinogenesis (eds. Hengstler, J.G. and Oesch, F.), Publishing House of the Editors, pp. 116-134, 1996.

571. Steinberg, P.; Jennings, G.S.; Schlemper, B. and Oesch, F.: Molecular mechanisms underlying the liver cell type-specific toxicity of aflatoxin B1. In: Control Mechanisms of Carcinogenesis (eds. Hengstler, J.G. and Oesch, F.), Publishing House of the Editors, pp. 135-147, 1996.

572. Becker, R.; Oesch, F. and Steinberg, P.: The role of oval cells in rat liver carcinogenesis. In: Control Mechanisms of Carcinogenesis (eds. Hengstler, J.G. and Oesch, F.), Publishing House of the Editors, pp. 148-158, 1996.

573. Wieser, R.J.; Faust, D.; Gradl, G.; Dietrich, D. and Oesch F.: Cell growth: A matter of contact. In: Control Mechanisms of Carcinogenesis (eds. Hengstler, J.G. and Oesch, F.), Publishing House of the Editors, pp. 282-295, 1996.

574. Tanner, B.; Kreutz, E.; Weikel, W.; Meinert, R.; Oesch, F.; Knapstein, P.G. and Becker, R.: Prognostic significance of c-erbB-2 mRNA in ovarian carcinoma. Gynecol. Oncol. 62: 268-277, 1996.

575. Gemechu-Hatewu, M.; Platt, K.-L.; Oesch, F. and Steinberg, P.: Distribution and induction of aflatoxin B1-9a-hydroxylase activity in rat liver parenchymal and non-parenchymal cells. Arch. Toxicol. 70: 553-558, 1996.

576. Dietrich, C.; Plaumann, T.; Oesch, F. and Wieser, R.: Subcellular distribution of ras in human and murine fibroblasts. Biochem. Biophys. Res. Commun. 226: 172-175, 1996.

577. Dietrich, C.; Bartsch, T.; Schanz, F.; Oesch, F. and Wieser, R.: p53-Dependent cell cycle arrest induced by N-acetyl-L-leucinyl-L-leucinyl-L-norleucinal in platelet-derived growth factor-stimulated human fibroblasts. Proc. Natl. Acad. Sci. USA 93: 10815-10819, 1996.

578. Wieser, J.R.; Heisner, A.; Stehling, P.; Oesch, F. and Reutter, W.: In vivo modulated N-acyl side chain of N-acetylneuraminic acid modulates the cell contact-dependent inhibition of growth. FEBS Lett. 395: 170-173, 1996.

579. Friedberg, T.; Holler, R.; Löllmann, B.; Arand, M. and Oesch, F.: The catalytic activity of the endoplasmic reticulum-resident protein microsomal epoxide hydrolase towards carcinogens is retained on inversion of its membrane topology. Biochem. J. 319: 131-136, 1996.

580. Jäger, E.; Ringhoffer, M.; Dienes, H.P.; Arand, M.; Karbach, J.; Jäger, D.; Ilsemann, C.; Hagedorn, M.; Oesch, F. and Knuth, A.: Granulocyte-macrophage-colony-stimulating factor enhances immune responses to melanoma-associated peptides in vivo. Int. J. Cancer 67: 54-62, 1996.

581. Frank, H.; Luch, A.; Oesch, F. and Seidel, A.: Assignment of absolute configuration to metabolically formed trans-dihydrodiols of dibenzo[a,l]pyrene by the exciton chirality method using a new red-shifted chromophore. Polycyclic Aromatic Comp. 10: 109-116, 1996.

582. Seidel, A.; Sun, Z.; Kroth, H.; Steinbrecher, T.; Oesch, F. and Friedberg, T.: DNA polymerase action on oligonucleotide templates from human protooncogene containing N6-deoxyadenosine adducts derived from trans addition of (+)- and (-)-anti-benzo[c]phenanthrene-3,4-dihydrodiol 1,2-epoxides at Codon 61. Polycyclic Aromatic Comp. 10: 161-170, 1996.

583. Buchwald-Goebel, S.; Oesch, F. and Seidel, A.: A tandem photochemical approach for the synthesis of biologically important metabolites of benzo[b]fluoranthene. Polycyclic Aromatic Comp. 10: 325-332, 1996.

584. Kroth, H.; Hertkorn, N.; Oesch, F. and Seidel, A.: Synthesis of stereoisomeric N6-deoxyadenosine adducts of syn- and anti-dihydrodiol epoxides of benzo[a]pyrene and their incorporation into 18-mer DNA sequences from human Ha-ras protooncogene. Polycyclic Aromatic Comp. 10: 349-356, 1996.

585. Becker, R.; Lüthgens, B.; Oesch, F.; Dienes, H.-P. and Steinberg, P.: Ha-rasVal12 but not p53Ser247 leads to a significant neoplastic transformation rate of the putative rat liver stem cells (oval cells). Carcinogenesis 17: 2635-2640, 1996.

586. Fuchs, J.; Hengstler, J.G.; Hummrich, F. and Oesch, F.: Transient increase in DNA strand breaks in car refinishing spray painters. Scand. J. Work Environ. Health. 22: 438-443, 1996.

587. Luch, A.; Seidel, A.; Glatt, H.R.; Oesch, F and Platt, K.L.: Correlation of the extent of fjord-region oxidation with DNA binding and mutagenicity of the enantiomeric 11,12-dihydrodiols of dibenzo[a,l]pyrene. Polycycl. Arom. Compds. 10: 101-108, 1996.

588. Platt, K.L.; Charissé, H.; Tommasone, M.; Diener, B. and Oesch, F.: Direct analysis of phase I metabolites, phenol sulfates, glucuronides and glutathione conjugates of benzo[a]pyrene in freshly isolated, hypothermically stored and cryopreserved hepatocytes. Polycycl. Arom. Compds. 10: 67-75, 1996.

589. Steinberg, P.; Frank, H.; Oesch, F. and Seidel, A.: The stereoisomeric fjord-region benzo[c]phenanthrene-3,4-dihydrodiol 1,2-oxides malignantly transform rat liver epithelial cells. Polycycl. Arom. Compds. 10: 275-282, 1996.

590. Jäger, E.; Ringhoffer, M., Arand, M.; Karbach, J.; Jäger, D.; Ilsemann, C.; Hagedorn, M.; Oesch, F. and Knuth, A.: Cytolytic T cell reactivity against melanoma associated differentiation antigens in peripheral blood of melanoma patients and healthy individuals. Melanoma Res. 6: 419-425, 1996.

591. Hengstler, J.G.; Fuchs, J.; Tanner, B.; Oesch-Bartlomowicz, B.; Hölz, C. and Oesch, F.: Analysis of DNA single-strand breaks in human venous blood: A technique which does not require isolation of white blood cells. Environm. Molec. Mutagen. 29: 58-62, 1997.

592. Jäger, E.; Ringhoffer, M.; Altmannsberger, M.; Arand, M.; Karbach, J.; Jäger, D.; Oesch, F. and Knuth, A.: Immunoselection in vivo: independent loss of MHC classI and melanocyte differentiation antigen expression in metastatic melanoma. Int. J. Cancer 71: 142-147, 1997.

593. Hengstler, J.G; Hengst, A.; Fuchs, J.; Tanner, B.; Pohl, J. and Oesch, F.: Induction of DNA crosslinks and DNA strand lesions by cyclophosphamide after activation by cytochrome P450 2B1. Mutat. Res. 373: 215-223, 1997.

594. Zhang, N.; Siegel, K.; Odenthal, M.; Becker, R.; Oesch, F.; Dienes, H.P.; Schirmacher, P. and Steinberg, P.: The role of insulin-like factor II in the malignant transformation of rat liver oval cells. Hepatology 25: 900-905, 1997.

595. Dietrich, C.; Wallenfang, K.; Oesch, F. and Wieser, R.: Translocation of cdk2 to the nucleus during G1-phase in PDGF-stimulated human fibroblasts. Exp. Cell Res. 232: 72-78, 1997.

596. Müller, F.; Arand, M.; Frank, H.; Seidel, A.; Hinz, W.; Winkler, L.; Hänel, K.; Blée, E.; Beetham, J.K.; Hammock, B.D. and Oesch, F.: Visualization of a covalent intermediate between microsomal epoxide hydrolase, but not cholesterol epoxide hydrolase, and their substrates. Eur. J. Biochem. 245: 490-496, 1997.

597. Holler, R.; Arand, M.; Mecky, A.; Oesch, F. and Friedberg, T.: The membrane anchor of microsomal epoxide hydrolase from human, rat, and rabbit displays an unexpected membrane topology. Biochem. Biophys. Res. Commun. 236: 754-759, 1997.

598. Tanner, B.; Hengstler, J.G.; Laubscher, S.; Meinert, R.; Oesch, F.; Weikel, W.; Knapstein, P.G. and Becker, R.: mdm 2 mRNA expression is associated with survival in ovarian cancer. Int. J. Cancer 74: 438-442, 1997.

599. Gemechu-Hatewu, M.; Platt, K.-L.; Oesch, F.; Hacker, H.-J.; Bannasch, P. and Steinberg, P.: Metabolic activation of aflatoxin B1 to aflatoxin B1-8,9-epoxide in woodchucks undergoing chronic active hepatitis. Int. J. Cancer 73: 587-591, 1997.

600. Dietrich, C.; Wallenfang, K.; Oesch, F. and Wieser, R.: Differences in the mechanisms of growth control in contact-inhibited and serum-deprived human fibroblasts. Oncogene 15: 2743-2747, 1997.

601. Oesch-Bartlomowicz, B.; Arens, H.J.; Richter, B.; Hengstler, J.G. and Oesch, F.: Control of the mutagenicity of aromatic amines by protein kinases and phosphatases. I. The protein phosphatase inhibitors okadaic acid and ortho-vanadate drastically reduce the mutagenicity of aromatic amines. Arch. Toxicol. 71: 601-611, 1997.

602. Padma, P.R.; Oesch-Bartlomowicz, B.; Hengstler, J.G. and Oesch, F.: Control of the mutagenicity of arylamines by protein kinases and phosphatases: II. Lack of response of rat liver N-acetyl transferases to phosphorylation modulators. Arch. Toxicol. 71: 655-659, 1997.

603. Herrero, M.E.; Arand, M.; Hengstler, J.G. and Oesch, F.: Recombinant expression of human microsomal epoxide hydrolase protects V79 Chinese hamster cells from styrene oxide- but not from ethylene oxide-induced DNA strand breaks. Environm. Molec. Mutagen. 30: 429-439, 1997.

604. Hengstler, J.G.; Bockisch, A.; Fuchs, J.; Grimms, W.; Zapf, A.-O.; Lade, K.; Meinert, R.; Oesch-Bartlomowicz, B.; Tanner, B. and Oesch, F.: Increase in DNA single-strand break rejoining by continuous exposure of human mononuclear blood cells to radioiodine (131I) in vitro. Int. J. Radiat. Biol. 72: 607-613, 1997.

605. Oesch, F.; Fuchs, J.; Arand, M.; Gebhard, S.; Hallier, A.; Oesch-Bartlomowicz, B.; Jung, D.; Tanner, B.; Bolm-Audorff, U.; Hiltl, G.; Bienfait, H.G.; Konietzko, J. and Hengstler, J.G.: Möglichkeiten und Grenzen der alkalischen Filterelution zum Biomonitoring gentoxischer Belastungen. In: Molekulare Marker bei beruflich verursachten Tumoren. Schriftenreihe der Bundesanstalt für Arbeitsschutz und Arbeitsmedizin, Dortmund/Berlin, pp. 71-101, 1997.

606. Tanner, B.; Hengstler, J.G.; Dietrich, B.; Henrich, B.; Steinberg, P.; Weikel, W.; Meinert, R.; Kaina, R., Oesch, F. and Knapstein, P.G.: Glutathione, glutathione S-transferase □ and □, and aldehyde dehydrogenase content in relationship to drug resistance in ovarian cancer. Gynecol. Oncol. 65: 54-62, 1997.

607. Hayes, R.B.; Klein, S.; Suruda, A.; Schulte, P.; Boeninger, M.; Stewart, P.; Livingston, G.K. and Oesch, F.: O6-Alkylguanine DNA alkyltransferase activity in student embalmers. Am. J. Ind. Med. 31: 361-365, 1997.

Schleger, C.; Heck, R.; Niketeghad, F.; Schirmacher, P.; Radaeva, S.; Oesch, F.; Dienes, H.P.; Bannasch, P. and Steinberg, P.: Establishment and chacterization of a nontumorigenic cell line derived from a human hepatocellular adenoma expressing hepatocyte-specific markers. Exp. Cell Res. 236: 418-426, 1997.

609. Tanner, B.; Hengstler, J.G.; Laubscher, S.; Meinert, R.; Oesch, F.; Knapstein, P.G. and Becker, R.: MDM2 and mRNA expression is associated with survivalin ovarian cancer. Int. J. Cancer 74: 1-5, 1997.

610. Tanner, B.; Hengstler, J.G.; Luch, A.; Meinert, R.; Kreutz, E.; Arand, M.; Wilkens, C.; Hofmann, M.; Oesch, F.; Knapstein, P.G. and Becker, R.: C-myc mRNA expression in epithelial ovarian carcinomas in relation to estrogen receptor status, metastatic spread, survival time, FIGO stage, and histologic grade and type. Int. J. Gynecol. Pathol. 17: 66-74, 1998.

611. Hengstler, J.G.; Arand, M.; Herrero, M.E. and Oesch, F.: Polymorphisms of N-acetyltransferases, glutathione S-transferases, microsomal epoxide hydrolase and sulfotransferases: influence on cancer susceptibility. Recent Results Cancer Res. 154: 47-85, 1998.

612. Jankowiak, R.; Ariese, F.; Hewer, A.; Luch, A.; Zamzow, D.; Hughes, C.; Phillips, D.; Seidel, A.; Platt, K.L.; Oesch, F. and Small, G.J.: Structure, conformations, and repair of DNA adducts from dibenzo[al]pyrene: 32P-postlabeling and fluorescence studies. Chem. Res. Toxicol. 11: 674-685, 1998.

613. Hengstler, J.G.; Kett, A.; Arand, M.; Oesch-Bartlomowicz, B.; Oesch, F.; Knapstein, P.G. and Tanner, B.: Glutathione S-transferase T1 and M1 gene defects in ovarian carcinoma. Cancer Lett. 130: 43-48, 1998.

614. Hengstler, J.G.; Böttger, T.; Tanner, B.; Dietrich, B.; Henrich, M., Knapstein, P.G., Junginger, Th. and Oesch, F.: Resistance factors in colon cancer tissue and the adjacent normal colon tissue: glutathione S-transferases □ and □, glutathione and aldehyde dehydrogenase. Cancer Lett. 128: 105-112, 1998.

615. Oesch-Bartlomowicz, B.; Padma, P.R.; Becker, R.; Richter, B.; Hengstler, J.G.; Freeman, J.E.; Wolf, C.R. and Oesch, F.: Differential modulation of CYP2E1 activity by cAMP dependent protein kinase upon Ser129 replacement. Exp. Cell Res. 242: 294-302, 1998.

616. Hu, X.; Seidel, A.; Frank, H.; Srivastava, S.K.; Xia, H.; Pal, A.; Zheng, S.; Oesch, F. and Singh, S.V.: Differential enantioselectivity of murine glutathione S-transferase isoenzymes in the glutathione conjugation of trans-3,4-dihydroxy-1,2-oxy-1,2,3,4-tetrahydrobenzo[c]phenanthrene stereoisomers. Arch. Biochem. Biophys. 358: 40-48, 1998.

617. Seidel, A.; Friedberg, T.; Löllmann, B.; Schwierzok, A.; Funk, M.; Frank, H.; Holler, R.; Oesch, F. and Glatt, H.R.: Detoxification of optically active bay- and fjord-region polycyclic

aromatic hydrocarbon dihydrodiol epoxides by human glutathione transferase P1-1 expressed in Chinese hamster V79 cells. Carcinogenesis 19: 1975-1981, 1998.

618. Bock, K.W.; Degen, G.H.; Foth, H.; Kahl, R.; Kappus, H.; Neumann, H.G.; Oesch, F. and Schulte-Hermann, R.: [Ozone-position of the Advisory Commission of the Toxicology Section of the German Society for Experimental and Clinical Pharmacology and Toxicology (DGPT)]. Pneumology 52: 358-365, 1998.

619. Arand, M.; Müller, F.; Mecky, A.; Hinz, W.; Urban, P.; Pompon, D.; Kellner, R. and Oesch, F.: Catalytic triad of microsomal epoxide hydrolase: replacement of Glu404 with Asp leads to a strongly increased turnover rate. Biochem. J. 337: 37-43, 1999.

620. Wieser, R.J.; Faust, D.; Dietrich, C. and Oesch, F.: p16ink4 mediates contact-inhibition of growth. Oncogene 18: 277-281, 1999.

621. Bock, K.W.; Raschko, F.T.; Gschaidmeier, H.; Seidel, A.; Oesch, F.; Grove, A.D. and Ritter, J.K.: Mono- and diglucuronide formation from benzo[ ]pyrene and chrysene diphenols by AHH-1 cell-expressed UDP-glucuronosyltransferase UGT1A7. Biochem. Pharmacol. 57: 653-656, 1999.

622. Erb, Ch.; Seidel, A.; Frank, H.; Platt, K.L.; Oesch, F. and Klein, J.: Formation of N-methylnicotinamide in the brain from a dihydropyridine-type prodrug. Biochem. Pharmacol. 57: 681-684, 1999.

623. Mullen, R.T.; Trelease, R.N.; Duerk, H.; Arand, M.; Hammock, B.D.; Oesch, F. and Grant, D.F.: Differential subcellular localization of endogenous and transfected soluble epoxide hydrolase in mammalian cells: evidence for isozyme variants. FEBS Lett. 445: 301-305, 1999.

624. Oesch, F. and Arand, M.: Role of individual enzymes in the control of genotoxic metabolites. In: Molecular and Applied Aspects of Oxidative Drug Metabolizing Enzymes (ed. E. Arinc), Plenum Publishing Company, London, pp. 211-220, 1999.

625. Schlink, K.; Janßen, K.; Nitzsche, S.; Gebhard, S.; Hengstler, J.G.; Klein, S. and Oesch, F.: Activity of O6-methylguanine DNA methyltransferase in mononuclear blood cells of formaldehyde-exposed medical students. Arch. Toxicol. 73: 15-21, 1999.

626. Schleger, C.; Becker, R., Oesch, F. and Steinberg, P.; The human p53 gene mutated at position 249 per se is not sufficient to immortalize human liver cells. Hepatology 29: 834-838, 1999.

627. Hengstler, J.G.; Tanner, B.; Möller, L.; Vydra, M.; Oesch, F.; Meinert, R. and Kaina, B.: Activity of O6-methylguanine-DNA methyltransferase in relation to p53 status and therapeutic response in ovarian cancer. Int. J. Cancer 84: 388-395, 1999.

628. Hengstler, J.G.; Lange, J.; Kett, A.; Dornhöfer, N.; Meinert, R.; Arand, M.; Knapstein, P.G.; Becker, R.; Oesch, F. and Tanner, B.: Contribution of c-erbB-2 and topoisomerase II to chemoresistance in ovarian cancer. Cancer Res. 59: 3206-3214, 1999.

629. Steinberg, P.; Klingelhoffer, A.; Schafer, A.; Wust, G.; Weisse, G.; Oesch, F. and Eigenbrodt, E.: Expression of pyruvate kinase M2 in preneoplastic hepatic foci of N-nitrosomorpholine-treated rats. Virchows Arch. 434: 213-220, 1999.

630. Pal, A.; Seidel, A.; Xia, H.; Hu, X.; Srivastava, S.K.; Oesch, F. and V.Singh, S.: Specificity of murine glutathione S-transferase isozymes in the glutathione conjugation of (-)-anti- and (+)-syn-stereoisomers of benzo[g]chrysene 11,12-diol 13,14-epoxide. Carcinogenesis 20: 1997-2001, 1999.

631. Strolin-Benedetti M.; Brogin G.; Bani, M.; Oesch, F. and Hengstler, J.G.: Association of cytochrome P450 induction with oxidative stress in vivo as evidenced by 3-hydroxylation of salicylate. Xenobiotica 29: 1171-1180, 1999.

632. Hengstler, J.G.; van der Burg, B.; Steinberg, P. and Oesch, F.: Interspecies differences in cancer susceptibility and toxicology. Drug. Metab. Rev. 31: 917-970, 1999.

633. Arand, M.; Hemmer, H.; Dürk, H.; Baratti J.; Archelas, A.; Furstoss, R. and Oesch, F.: Cloning and molecular characterization of a soluble epoxide hydrolase from Aspergillus niger that is related to mammalian microsomal epoxide hydrolase. Biochem. J. 344: 273-280, 1999.

634. Hengstler, J.G. and Oesch, F.: Interspecies differences in xenobiotic metabolizing enzymes and their importance for interspecies extrapolation of toxicity. In: General and Applied Toxicology (eds. Ballantyne, B., Marrs, T.C. and Syversen, T.), Macmillan, London, 271-290, 1999.

635. Steinberg, P; Fischer T.; Kiulies, S.; Biefang,K.; Platt, K.-L.; Oesch, F.; Böttger, T.; Bulitta, C.; Kempf, P.and Hengstler, J.: Drug metabolizing capacity of cryopreserved human, rat, and mouse liver parenchymal cells in suspension. Drug Metab. Dispos. 27: 1415-1422, 1999.

636. Tanner, B.; Pilch, H., Schmidt, M.; Steuer, M.; Schäffer, U.; Knapstein, P.G.; Oesch, F. and Hengstler, J.G.: Correlation of c-erbB-2 and topoisomerase II□ mRNA expression in ovarian cancer. In: International Gynecologic Cancer Society (eds. S. Pecorelli, G. Atlante, P., Benedetti, S. Manucuso) Monduzzi Editore, Bologna, pp. 303-310, 1999.

637. Oesch, F.; Reifenrath, M.; Janßen,K.; Götte, W.; Jung, D.; Fuchs, J.; Gebhard, S.; Bienfait, H.G.; Schlink, K.; Dietrich, C.; Faust, D.; Epe, B., Bolm-Audorff, U. and Hengstler, J.G.: DNA-Schädigung und Hemmung der DNA-Reparatur. Onkologie 9: 30-31, 1999.

638. Hengstler, J.G.; Walz, J.; Kübel, R.; Truong, T.; Fuchs, J.; Seidel, A.; Arand, M and Oesch, F.: Enhancement of the mutagenicity of ethylene oxide and several directly acting mutagens by human erythrocytes and its reduction by xenobiotic interaction. In: Molecular and Applied Aspects of Oxidative Drug Metabolizing Enzymes (ed. E. Arinc), Kluwer Academic Plenum Publishers, pp. 221-246, 1999.

639. Oesch, F., and Arand, M.: Xenobiotic Metabolism. In: Toxicology (eds. H. Marquardt, S. Schäfer, D. McLellan and C. Welsch), pp. 83-110. Academic Press, San Diego, 1999.

640. Hengstler, J.G.; Utesch, D.; Steinberg, P.; Platt, K.L.; Diener, M.; Ringel, M.; Swales, N.; Fischer, T.; Biefang, K.; Gerl, M.; Böttger, T. and Oesch, F.: Cryopreserved primary hepatocytes as a constantly available in vitro model for the evaluation of human and animal drug metabolism and enzyme induction. Drug Metab. Rev. 32: 81-118, 2000.

641. Hengstler, J.G.; Ringel,M.; Biefang, K.; Hammel, S.; Milbert, U.; Gerl, M.; Klebach, M.; Diener, B.; Platt, K.L.; Böttger, T.; Steinberg, P. and Oesch, F.: Cultures with cryopreserved hepatocytes: applicability for studies of enzyme induction. Chem. Biol. Interact. 125: 51-73, 2000.

642. Zou, J.; Hallberg, B.M.; Bergfors, T., Oesch, F.; Arand, M.; Mowbray, S.L. and Jones, T.A.: Structure of Aspergillus niger epoxide hydrolase at 1.8 Å resolution: implications for the structure

and function of the mammalian microsomal class of epoxide hydrolases. Structure 8: 111-122, 2000.

643. Hengstler, J.G.; Bockisch, A.; Fuchs, J.; Grimm, W.; Görges, R.; Oesch-Bartlomowicz, B.; Zapf, A.O.; Lade, K.; Tanner, B.; Teichmann, E.; Thelen, M.; Gebhard, S. and Oesch, F.: Induction of DNA single-stand breaks by 131I and 99mTc in human mononuclear blood cells in vitro and extrapolation to the in vivo situation. Radiat. Res. 153: 512-520, 2000.

644. Oesch, F.; Herrero, M.E.; Hengstler, J.G.; Lohmann, M. and Arand, M.: Metabolic detoxification: Implications for thresholds. Toxicol. Pathol. 28: 382-387, 2000.

645. Hewitt, N.J.; Fischer, T.; Zuehlke, U.; Oesch, F. and Utesch, D.: Metabolic activity of fresh and cryopreserved cynomolgus monkey (Macaca fascicularis) hepatocytes. Xenobiotica 30: 665-681, 2000.

646. Hengstler, J.G.; Bauer, A.; Wolf, H.K.; Bulitta, C.J.; Tanner, B.; Oesch, F. and Boettger, T.: Mutation analysis of the cationic trypsinogen gene in patients with pancreatic cancer. Anticancer Res. 20: 2967-2974, 2000.

647. Oesch, F.; Arand, M. and Hengstler, J.G.: Enzympolymorphismen als Ursachen erhöhter Suszeptibilität in der chemischen Karzinogenese. In: „Strahlenbiologie und Strahlenschutz“ (eds. W.-U. Müller, G. Heinemann and F. Fehringer), Publication Series, Progress in Radiation Protection. pp. 374-393, 2000.

648. Teichmann, E.M.; Hengstler, J.G.; Schreiber, W.G.; Akbari, W.; Georgi, H.; Hehn, M.; Schiffer, I.; Oesch, F.; Spiess, H.W. und Thelen, M.: Possible mutagenic effects of magnetic fields. Rofo Fortschr. Geb. Rontgenstr. Neuen Bildgeb. Verfahr. 172: 934-9, 2000.

649. Härtter, S.; Wang, X.; Weigmann, H.; Friedberg, T.; Arand, M.; Oesch, F. and Hiemke, C.: Differential effects of fluvoxamine and other antidepressants on the biotransformation of melatonin. J. Clin. Psychopharmacol. 21: 167-174, 2001.

650. Ringhoffer, M.; Schmitt, M.; Jäger, E.; Karbach, J.; Oesch. F. and Arand, M.: Quantitative assessment of the expression of melanoma-associated antigens by noncompetitive reverse transcription polymerase chain reaction (RT-PCR). Int. J. Oncol. 19: 983-989, 2001.

651. Dietrich, C.; Gumpert, N.; Heit, I.; Bochert-Stuhlträger, M.; Oesch F. and Wieser, R.: Rottlerin induces a transformed phenotype in human keratinocytes. Biochem. Biophys. Res. Com. 282: 575-579, 2001.

652. Hengstler, J.G. and Oesch, F.: The Ames Test. Encyclopedia of Genetics (eds. Brenner, S. and Miller, J.), Academic Press, New York, pp. 51-54, 2001.

653. Heit, I.; Wieser, R.J.; Herget, T.; Faust, D.; Borchert-Stuhlträger, M.; Oesch, F. and Dietrich, C.: Involvement of protein kinase Cδ in contact-dependent inhibition of growth in human and murine fibroblasts. Oncogene 20: 5143-5154, 2001.

654. Janssen, K.; Eichhorn-Grombacher, U.; Schlink, K.; Nitzsche, S.; Oesch, F. and Kaina, B.: Long-time expression of DNA repair enzymes MGMT and APE in human peripheral blood mononuclear cells. Arch. Toxicol. 75: 306-312, 2001.

655. Janssen, K.; Schlink, K.; Götte, W.; Hippler, B.; Kaina, B. and Oesch, F.: DNA repair activity of 8-oxoguanine DNA glycosylase 1 (OGG1) in human lymphocytes is not dependent on genetic polymorphism Ser^{326}/Cys^{326}. Mutat. Res. 486: 207-216, 2001.

656. Oesch-Bartlomowicz, B.; Richter, B.; Becker, R.; Vogel, R.; Padma, P.R.; Hengstler, J.G. and Oesch, F.: cAMP-dependent phosphorylation of CYP2B1 as a functional switch for cyclophosphamide activation and its hormonal control in vitro and in vivo. Int. J. Cancer 94: 733-742, 2001.

657. Hengstler, J.G.; Pilch, H.; Schmidt, M.; Dahlenburg, H.; Sagemüller, J.; Schiffer, I.; Oesch, F.; Knapstein, P.G.; Kaina, B. and Tanner, B.: Metallothionein expression in ovarian cancer in relation to histopathologic parameters and molecular markers of prognosis. Int. J. Cancer 95: 121-127, 2001.

658a. Oesch, F.; Herrero, M.E.; Lohmann, M.; Hengstler, J.G. and Arand, M.: Sequestration of biological reactive intermediates by trapping as covalent enzyme-intermediate complex. In: "Biological Reactive Intermediates VI" (ed. R. Snyder), Kluwer Academic/Plenum Publishers, New York, pp. 577-586, 2001.

658b. Oesch, F.; Herrero, M.E.; Lohmann, M.; Hengstler, J.G. and Arand, M.: Sequestration of biological reactive intermediates by trapping as covalent enzyme-intermediate complex. Adv. Exp. Med. Biol. 500: 577-86, 2001.

659. Micke, P.; Hengstler, J.G.; Ros, R.; Bittinger, F.; Metz, T.; Gebhard, S.; Beeh, K.M.; Oesch, F. and Buhl, R.: c-erbB-2 expression in small-cell lung cancer is associated with poor prognosis. Int. J. Cancer 92: 474-479, 2001.

660. Schreiber, W.G.; Teichmann, E.M.; Schiffer, I.; Hast, J.; Akbari, W.; Georgi, H.; Graf, R.; Hehn, M.; Spiebeta, H.W.; Thelen, M.; Oesch, F. and Hengstler, J.G.: Lack of mutagenic and comutagenic effects of magnetic fields during magnetic resonance imaging. J. Magn. Reson. Imaging 14: 779-788, 2001.

661. Dietrich, C.; Scherwat, J.; Faust, D. and Oesch, F.: Subcellular localization of β-catenin is regulated by cell density. Biochem. Biophys. Res. Commun. 292: 195-199, 2002.

662. Arand, M. and Oesch, F.: Mammalian xenobiotic epoxide hydrolases. Handbook of Enzyme Systems that Metabolise Drugs and Other Xenobiotics (ed. C. Ioannides), John Wiley & Sons, Chichester, pp. 459-483, 2002.

663. Vodicka, P.; Koskinen, M.; Arand, M.; Oesch, F. and Hemminki, K.: Spectrum of styrene-induced DNA adducts: the relationship to other biomarkers and prospects in human biomonitoring. Mutat. Res. 511: 239-254, 2002.

664. Beerheide, W.; von Mach, M.A.; Ringel, M.; Fleckenstein, C.; Schumann, S.; Renzing, N.; Hildebrandt, A.; Brenner, W.; Jensen, O.; Gebhard, S.; Reifenberg, K.; Bender, J.; Oesch. F. and Hengstler, J.G.: Downregulation of β2-microglobulin in human cord blood somatic stem cells after transplantation into livers of SCID-mice: an escape mechanism of stem cells? Biochem. Biophys. Res. Commun. 294: 1052-1063, 2002.

665. Hast, J.; Schiffer, I.B.; Neugebauer, B.; Teichmann, E.; Schreiber, W.; Brieger, J.; Kim, D.W.; Gebhard, S.; Born, C.J.; Strugala, M.; Sagemüller, J.; Brenner, W.; Mann, W.J.; Oesch, F.;

Thelen, M. and Hengstler, J.G.: Angiogenesis and fibroblast proliferation precede formation of recurrent tumors after radiation therapy in nude mice. Anticancer Res. 22: 677-688, 2002.

666. Komlosh, A.; Volohonsky, G.; Porat, N.; Tuby, C.; Bluvshtein, E.; Steinberg, P.; Oesch, F. and Stark, A.A.: Gamma-Glutamyl transpeptidase and glutathione biosynthesis in non-tumorigenic and tumorigenic rat liver oval cell lines. Carcinogenesis 23: 671-8, 2002.

667. Ringel, M.; Oesch, F.; Gerl, M.; Klebach, M.; Quint, M.; Bader, A.; Bottger, T. and Hengstler, J.G.: Permissive and suppressive effects of dexamethasone on enzyme induction in hepatocyte co-cultures. Xenobiotica 32: 653-666, 2002.

668. Dietrich, C.; Faust, D.; Budt, S.; Moskwa, M.; Kunz, A.; Bock, K.W. and Oesch, F.: 2,3,7,8-Tetrachlorodibenzo-p-dioxin-dependent release from contact inhibition in WB-F344 cells: Involvement of cyclin A. Toxicol. Appl. Pharmacol. 183: 117-126, 2002.

669. Bockamp, E.; Maringer, M.; Spangenberg, C.; Fees, S.; Fraser, S.T.; Eshkind, L.; Oesch, F. and Zabel, B.: Of mice and models: improved animal models for biomedical research. Physiol. Genom. 11: 115-132, 2002.

670. Oesch-Bartlomowicz, B. and Oesch, F.: Fast regulation of cytochrome P450 activities by phosphorylation and consequences for drug metabolism and toxicity. Biol. Chem. 383: 1587-1592, 2002.

671. Hengstler, J.G.; Heimerdinger, C.K.; Schiffer, I.B.; Gebhard, S.; Sagemüller, J.; Tanner, B.; Bolt, H.M. and Oesch, F.: Dietary topoisomerase II-poisons: contribution of soy products to infant leukemia ? EXCLI J. 1: 8-14, 2002.

672. Haufroid, V.; Jakubowski, M.; Janasik, B.; Ligocka, D.; Buchet, J.-P.; Bergamaschi, E.; Manini, P.; Mutti, A.; Ghittori, S.; Arand, M.; Hangen, N.; Oesch, F.; Hirvonen, A. and Lison, D.: Interest of genotyping of drug-metabolizing enzymes for the interpretation of biological monitoring of exposure to styrene. Pharmacogenetics, 12:691-702, 2002.

673. Oesch-Bartlomowicz, B. and Oesch, F.: Cytochrome-P450 phosphorylation as a functional switch. Arch. Biochem. Biophys. 409: 228-234, 2003.

674. Dietrich, C.; Faust, D.; Moskwa, M.; Kunz, A.; Bock, K.-W. and Oesch, F.: TCDD-dependent downregulation of γ-catenin in rat liver epithelial cells (WB-F344). Int. J. Cancer: 103: 435-439, 2003.

675. Hengstler, J.G.; Bogdanffy, M.S.; Bolt, H.M. and Oesch, F.: Challenging dogma: Thresholds for genotoxic carcinogens? The case of vinyl acetate. Annu. Rev. Pharmacol. Toxicol. 43: 485-520, 2003.

676. Cronin, A.; Mowbray, S.; Dürk, H.; Homburg, S.; Fleming, I.; Fisslthaler, B.; Oesch, F. and Arand, M.: The N-terminal domain of mammalian soluble epoxide hydrolase is a phosphatase. Proc. Natl. Acad. Sci. USA, 100: 1552-1557, 2003.

677. Schiffer, I.B.; Schreiber, W.G.; Graf, R.; Schreiber, E.M.; Jung, D.; Rose, D.M.; Hehn, M.; Gebhard, S.; Sagemüller, J.; Spieß, H.W.; Oesch, F.; Thelen, M. and Hengstler, J.G.: No influence of magnetic fields on cell cycle progression using conditions relevant for patients during MRI. Bioelectromagnetics. 24: 241-250, 2003.

678. Arand, M.; Herrero-Plana, M.E.; Hengstler, J.G.; Lohmann, M.; Cronin, A. and Oesch, F.: Detoxification strategy of epoxide hydrolase. The basis for a threshold in chemical carcinogenesis. EXCLI J. 2: 22-30, 2003.

679. Gebhardt, R.; Hengstler, J.G.; Müller, D.; Glöckner, R.; Buenning, P.; Laube, B.; Schmelzer, E.; Ullrich, M.; Utesch, D.; Hewitt, N.; Ringel, M.; Hilz, B.R.; Bader, A.; Langsch, A.; Koose, T.; Burger, H.J.; Maas, J. and Oesch, F.: New hepatocyte in vitro systems for drug metabolism: metabolic capacity and recommendations for application in basic research and drug development, standard operation procedures. Drug Metab.Rev. 35: 145-213, 2003.

680. Hengstler, J.G.; Bolm-Audorff, U.; Faldum, A.; Janssen, K.; Reifenrath, M.; Götte, W.; Jung, D.; Mayer-Popken, O.; Fuchs, J.; Gebhard, S.; Bienfait, H.-G.; Schlink, K.; Dietrich, C.; Faust, D.; Epe, B. and Oesch, F.: Occupational exposure to heavy metals: DNA damage induction and DNA repair inhibition prove co-exposures to cadmium, cobalt and lead as more dangerous than hitherto expected. Carcinogenesis, 24: 63-73, 2003.

681. Arand, M.; Hallberg, B.M.; Zou, J.; Bergfors, T.; Oesch, F.; van der Werf, M.J.; de Bont, J.A.M.; Jones, T.A. and Mowbray, S.L.: Structure of Rhodococcus erythropolis limonene-1,2-epoxide hydrolase reveals a novel active site.EMBO J. 22: 2583-2592, 2003.

682. Schiffer, I.B.; Gebhard, S. Heimerdinger, C.K.; Heling, A.; Hast, J.; Wollscheid, U.; Seliger, B.; Tanner, B.; Gilbert, S.; Beckers, T.; Baasner, S.; Brenner, W.; Spangenberg, C.; Prawitt, D.; Trost, T.; Schreiber, W.G.; Zabel, B.; Thelen, M.; Lehr, H.A.; Oesch, F. and Hengstler, J.G.: Switching off HER-2/neu in a tetracycline-controlled mouse tumor model leads to apoptosis and tumor-size-dependent remission. Cancer Res. 63: 7221-7233, 2003.

683. Arand, M.; Cronin, A.; Oesch, F.; Mowbray, S.L. and Jones, T. A.: The tell tale structures of epoxide hydrolases. Drug Metab.Rev., 35, 365-383, 2003.

684. Micke, P.; Basrai, M.; Faldum, A.; Bittinger, F.; Ronnstrand, L.; Blaukat, A.; Beeh, K.M.; Oesch, F.; Fischer, B.; Buhl, R. and Hengstler, J.G.: Characterization of c-kit expression in small cell lung cancer: Prognostic and therapeutic implications. Clin. Cancer Res. 9: 188-194, 2003.

685. Tanner, B.; Grimme, S.; Schiffer, I.; Heimerdinger, C.; Schmidt, M.; Dutkowski, P.; Neubert, S.; Oesch, F.; Franzen, A.; Kölbl, H.; Fritz, G.; Kaina, B. and Hengstler, J.G.: Nuclear expression of apurinic/apyrimidinic endonuclease increases with progression of ovarian carcinomas. Gynecol. Oncol. 92: 568-577, 2004.

686. Reder-Hilz, B.; Ullrich, M.; Ringel, M.; Hewitt, N.; Utesch, D.; Oesch, F. and Hengstler, J.G.: Metabolism of propafenone and verapamil by cryopreserved human, rat, mouse and dog hepatocytes: comparison with metabolism in vivo. Naunyn-Schmiedeberg's Arch. Pharmacol. 369: 408-417, 2004.

687. Oesch-Bartlomowicz, B.; Janssen, K.; Wiss, O. and Oesch, F.: Guanine 6-0-methylation pattern within the dioxin responsive element of the CYP1A1 enhancer shows two critical guanines for AhR/ARNT binding. Chemistry & Biodiversity, 1: 473-480, 2004.

688. Oesch-Bartlomowicz, B. and Oesch, F.: Modulation of mutagenicity by phosphorylation of mutagen-metabolizing enzymes. Arch. Biochem. Biophys., 423: 31-36, 2004.

689. Oesch, F.; Hengstler, J.G. and Arand, M.: Detoxification strategy of epoxide hydrolase – the basis for a novel threshold for definable genotoxic carcinogens. Nonlinearity in Biology, Toxicology, and Medicine, 2: 21-26, 2004.

690. Oesch, F. and Hengstler, J.G.: Bedeutung des Metabolismus für die Risikocharakterisierung. In: Regulatorische Toxikologie (eds. F.-X. Reichl and M. Schwenk), Springer-Verlag, Heidelberg, pp. 361-374, 2004.

691. Prawitt, D..; Brixel, L.; Spangenberg, C.; Eshkind, L.; Heck, R.; Oesch, F.; Zabel, B. and Bockamp, E.: RNAi knock-down mice: an emerging technology for post-genomic functional genetics. Cytogenet. Genome Res. 105: 412-421, 2004.

692. Efferth, T.; Benakis, A.; Romero-Rodriguez, M.; Tomicic, M.; Rauh, R.; Steinbach, D.; Häfer, R.; Stamminger, T.; Kaina, B.; Oesch, F. and Marschall, M.: Enhancement of cytotoxicity of artemisinins toward cancer cells by ferrous iron. Free Radic. Biol. Med. 37: 998 – 1009, 2004.

693. Efferth, T. and Oesch, F.: Oxidative stress response of tumor cells: Microarray-based comparison between artemisinins and anthracyclines. Biochem. Pharmacol. 68: 3-10, 2004.

694. Arand, M. and Oesch, F.: Fremdstoffmetabolismus. Lehrbuch der Toxikologie (eds. S. Schäfer and H. Marquardt), Wissenschaftliche Verlagsanstalt Stuttgart, pp. 89-116, 2004.

695. Hoelper, P.; Faust, D.; Oesch, F. and Dietrich, C.: Transforming growth factor beta-1 is not involved in 2,3,7,8-tetrachlorodibenzo-p-dioxin-dependent release from contact-inhibition in WB-F344 cells. Arch. Toxicol. 78: 643-648, 2004.

696. Carmo, H.; Hengstler, J.G.; de Boer, D.; Ringel, M.; Carvalho, F.; Fernandes, E.; Remiao, F.; Dos Reys, L.A.; Oesch, F. and de Lourdes Bastos M.: Comparative metabolism of the designer drug 4-methylthioamphetamine by hepatocytes from man, monkey, dog, rabbit, rat and mouse. Naunyn Schmiedeberg's Arch.Pharmacol. 369: 198-205, 2004.

697. Oesch-Bartlomowicz, B. and Oesch, F.: Phosphorylation of cytochrome P450: First discovery of a posttranslational modification of a drug metabolizing enzyme. Biochem. Biophys. Res. Commun. 338: 446-449, 2005.

698. Muttray, A.; Spelmeyer, U.; Hommel, G.; Oesch, F.; Jung, D.; Rose, D.; Mayer-Popken, O.; Rossbach, B. and Letzel, S.: Acute exposure to 50 ppm toluene does not increase sleepiness. Environ. Toxicol. Pharmacol. 19: 665-669, 2005.

699. Ringel, M.; von Mach, M.A.; Santos, R.; Feilen, P.J.; Brulport, M.; Hermes, M.; Bauer, A.; Schormann, W.; Schiffer, I.B.; Tanner, B.; Schon, M.R.; Oesch, F. and Hengstler, J.G.: Hepatocytes cultured in alginate microspheres: an optimized technique to study enzyme induction. Toxicology, 206: 153-167, 2005.

700. Carmo, H.; Hengstler, J.G.; de Boer, D.; Ringel, M.; Remiao, F.; Carvalho, F.; Fernandes, E.; dos Reys, L.A.; Oesch, F. and de Lourdes Bastos M.: Metabolic pathways of 4-bromo-2.5-dimethoxy-phenethylamine (2C-B): analysis of phase I metabolism with hepatocytes of six species including human. Toxicology 206: 75-89, 2005.

701. Hölper, P.; Faust, D.; Oesch, F. and Dietrich, C.: Evaluation of the role of c-src and ERK in TCDD-dependent release from contact-inhibition in WB-F344 cell. Arch. Toxicol. 79: 201-207, 2005.

702. Arand, M.; Cronin, A.; Adamska, M. and Oesch F.: Epoxide hydrolases: structure, function, mechanism, and assay. Methods Enzymol. 400: 569-588, 2005.

703. Faust, D.; Dolado, I.; Cuadrado, A.; Oesch, F. Weiss, C.; Nebreda, A.R. and Dietrich, C.: p38 MAPK is required for contact inhibition. Oncogene 24: 7941-7945, 2005.

704. Weiss, C.; Faust, D.; Dürk, H.; Kolluri, S.K.; Pelzer, A.; Schneider, S.; Dietrich, C.; Oesch, F. and Göttlicher, M.: TCDD induces c-jun expression via a novel Ah (dioxin) receptor-mediated p38 MAPK-dependent pathway. Oncogene 24: 4975-4983, 2005.

705. Oesch-Bartlomowicz, B.; Huelster, A.; Wiss, O.; Antoniou-Lipfert, P.; Dietrich, C.; Arand, M.; Weiss, C.; Bockamp, E. and Oesch, F.: Aryl hydrocarbon receptor activation by cAMP vs. dioxin: divergent signaling pathways. Proc. Natl. Acad. Sci. U S A. 102: 9218-23, 2005.

706. Hengstler, J.G.; Brulport, M.; Schormann, W.; Bauer, A.; Hermes, M.; Nussler, A.K.; Fandrich, F.; Ruhnke, M.; Ungefroren, H.; Griffin, L,; Bockamp, E.; Oesch, F. and von Mach, M.A.: Generation of human hepatocytes by stem cell technology: definition of the hepatocyte. Expert Opin. Drug Metab. Toxicol. 1: 61-74, 2005.

707. Oesch-Bartlomowicz, B.; Arand, M.; Hengstler, J.G.; Schiffer, I.B. and Oesch, F.: Carcinogenesis control: From chemically reactive species to interference with proliferation. In: Controversies in Gynecological Oncology/Kontrowersije w ginekologii onkologicznej (ed. J. Kotarski), IZT, Lublin, Poland, pp. 13-18, 2005.

708. Schulte-Hermann, R.; Wogan, G.N.; Berry, C.; Brown, N.A.; Czeizel, A.; Giavini, E.; Holmes, L.B.; Kroes, R.; Nau, H.; Neubert, D.; Oesch, F.; Ott, T.; Pelkonen, O.; Robert-Gnasia, E.; Sullivan, F.M.: Analysis of reproductive toxicity and classification of glufosinate ammonium. Regulatory Toxicol. Pharmacol. 44: 1-76, 2006.

709. Carmo, H.; Brulport, M.; Hermes, M.; Oesch, F.; Silva, R.; Ferreira, L.M.; Branco, P.S.; Boer, D.D.; Remiao, F.; Carvalho, F.; Schon, M.R.; Krebsfaenger, N.; Doehmer, J.; Bastos, M.D. and Hengstler, J.G.: Influence of CYP2D6 polymorphism on 3,4-methylenedioxymethamphetamine ('Ecstasy') cytotoxicity. Pharmacogenet. Genomics 16: 789-799, 2006.

710. Hausherr, K.; Schiffer, I.B.; Gebhard, S.; Banic, A.; Tanner, B.; Kölbl, H.; Thoenes, E.; Beckers, T.; Spangenberg, C.; Prawitt, D.; Trost, T.; Zabel, B.; Oesch, F.; Hermes, M. and Hengstler, J.G.: Dephosphorylation of p-ERK-1/2 in relation to tumor remission after HER-2 and Raf1 blocking therapy in a conditional mouse model. Mol. Carcinogenesis 45: 302-308, 2006.

711. Vodicka, P.; Koskinen, M.; Naccarati, A.; Oesch-Bartlomowicz, B.; Vodickova, L.; Hemminki, K. and Oesch, F.: Styrene metabolism, genotoxicity, and potential carcinogenicity. Drug Metab. Rev. 38: 805-53, 2006.

712. Oesch-Bartlomowicz, B. and Oesch, F.: Mechanisms of toxication and detoxication which challenge drug candidates and drugs. In: Comprehensive Medicinal Medicine (eds. D. Triggle and J. Taylor), Elsevier, Philadelphia, PA, USA, pp 193-214, 2007.

713. Oesch, F.; Fabian, E.; Oesch-Bartlomowicz, B.; Werner, C. and Landsiedel, R: Drug metabolizing enzymes in the skin of man, rat, and pig. Drug Metab. Rev. 39: 659-698, 2007.

714. Carmo, H.; Brulport, M.; Hermes, M,; Oesch, F.; de Boer, D.; Remião, F.; Carvalho, F.; Schön, M.R.; Krebsfaenger, N.; Doehmer, J.; Bastos Mde, L. and Hengstler, J.G.: CYP2D6 increases toxicity of the designer drug 4-methylthioamphetamine (4-MTA). Toxicology 229: 236-44, 2007.

715. Weiss, C.; Faust, D.; Schreck,I.; Ruff, A.; Farwerck, T.; Melenberg, A.; Schneider, S.; Oesch-Bartlomowicz, B.; Zatloukalova, J., Vondracek, J. Oesch, F. and Dietrich, C.: TCDD derugulates contact inhibition in rat liver oval cells via Ah receptor, JunD and cyclin A. Oncogene 27: 2198-2207, 2008.

716. Oesch, F.; Weiss, C., Dietrich, C. and Oesch-Bartlomowicz, B.: Dose-response and potential thresholds in tumour development. In: Mechanisms of Chemical Carcinogenesis and Their Impact on Dose-Response Relationships – the Example of Dioxin and Benzo[a]pyrene (eds. C. Dietrich, F. Oesch, B. Oesch-Bartlomowicz and C. Weiss), Nofer Institute of Occupational Medicine, Lódz, Poland, pp 77-83, 2008.

717. Oesch, F.; Dietrich, C.; Naegeli, H.P.; Schwarz, M.; van der Horst, G.; Zanger, U.; Oesch, B. and Weiss, C.: New aspects on mechanisms of chemical carcinogenesis: emphasis on species and gender/sex differences and developmental/aging determinants. Arch. Toxicol. 82: 875-880, 2008.

718. Oesch-Bartlomowicz, B. and Oesch, F.: Phosphorylation of xenobiotic-metabolizing cytochromes P450. Anal. Bioanal. Chem. 392:1085-1092, 2008.

719. Baan, R.; Straif, K.; Grosse, Y.; Secretan, B.; El Ghissassi, F.; Bouvard, V.; Benbrahim-Tallaa, L.; Cogliano, V.; WHO International Agency for Research on Cancer Monograph Working Group: Turesky, R.; Neumann, H.-G.; Oesch, F.; Platzek, T.; Martelli, A.; Negri, E.; Fukushima, S.; 't Mannetje, A.; de Sanjosé, S.; Takkouche, B.; Sorahan, T.; Carreón-Valencia, T.; Chung, K.T.; Freeman, H.S.; Jameson, C.W.; Wu, X.; Zenser, T.; Zhang, Y.; Nohynek, G.J.; Huici-Montagud, A. and Skare, J.A.: Carcinogenicity of some aromatic amines, organic dyes, and related exposures. Lancet Oncol. 9:322-323, 2008.

720. Oesch-Bartlomowicz, B. and Oesch, F.: Role of cAMP in mediating AHR signaling. Biochem. Pharmacol. 77: 627-641, 2009.

721. Landsiedel, R.; Kapp, M.D.; Schulz, M.; Wiench, K. and Oesch F.: Genotoxicity investigations on nanomaterials: Methods, preparation and characterization of test material, potential artifacts and limitations - Many questions, some answers. Mutat. Res. Rev. 681: 241-258, 2009.

722. Finkenwirth, P.; Spelmeyer, U.; Hommel, G.; Rose, D.-M.; Jung, D.; Rossbach, B.; Mayer-Popken, O.; Platt, K.-L.; Oesch, F. and Muttray, A.: Effects of an acute exposure to toluene on the DNA repair activity of the human 8-oxoguanine DNA glycosylase 1 (hOGG1) in healthy subjects. Arch. Toxicol. 83: 777-784, 2009.

723. Schreck, I.; Chudziak, D.; Schneider, S.; Seidel, A.; Platt, K.-L.; Oesch, F. and Weiss, C.: Influence of aryl hydrocarbon- (Ah) receptor and genotoxins on DNA repair gene expression and cell survival of mouse hepatoma cells. Toxicology 259: 91-96, 2009.

724. Oesch, F.: Importance of knowledge on drug metabolism for the safe use of drugs in humans. Drug Metab. Rev. 41: 298-300, 2009.

725. Watelet, J.-B.; Strolin Benedetti, M.; Church, M.K. and Oesch, F.: Drug Metabolism and Disposition: Concepts and Applications in Allergic Diseases: General Conclusions. Drug Metab. Rev. 41: 528-529, 2009.

726. Oesch-Bartlomowicz, B.; Weiss, C.; Dietrich, C. and Oesch, F.: Circadian rhythms and chemical carcinogenesis: Potential link. An overview. Mutat. Res. 680: 83-86, 2009.

727. Dietrich, C.; Weiss, C.; Bockamp, E.; Brisken, C.; Roskams, T.; Morris, R.; Oesch-Bartlomowicz, B. and Oesch, F.: Stem cells in chemical carcinogenesis. Arch. Toxicol., in press.

728. Oesch, F.; Fabian, E.; Kamp, H.; Bernshausen, T.; Damm, G.; Triebel, S.; Döhmer, J.; Landsiedel, R.; van Ravenzwaay, B. and Metzler, M.: In vitro mammalian metabolism of the mitosis inhibitor zoxamide and the relationship to its in vitro toxicity. Xenobiotica, in press.