

CURRICULUM VITAE

Susanne Mandrup

Personal information

Date of birth June 3, 1962
 Nationality Danish
 Family status Married. Two children born 1989 and 1992, respectively.
 Address Præstevejen 8, Østrup, 5450 Otterup

Education

1988 Master degree in Molecular Biology, Odense University
 1992 PhD degree in Biochemistry, Odense University

Professional experience

(Maternity leave 6 months in 1989-90 and 6 months in 1992-93)

1992-95 Post doc at Dept. Biochemistry and Dept. Molecular Biology, Odense University
 1995-96 Post doc in Prof. M. Daniel Lane's lab, Johns Hopkins University, Baltimore, USA
 1996-1999 Assistant Professor Dept. Molecular Biology, Odense University
 1999-2008 Associate Professor Dept. Biochemistry and Molecular Biology, SDU
 2008 – pres. Professor Dept. Biochemistry and Molecular Biology, SDU

Professional courses

1997 Educational course for assistant professors ('Adjunktpædagogikum')
 2006-07 Course in research management taught by Copenhagen Business School

Awards and honors

1994 The Simon Spies Foundation's Natural Science Research Prize
 2007 Marie Lønggaard's Award for excellence in research and teaching
 2012 Niels Schwartz Sørensen Award for Diabetes Research
 2012 Recipient of Sapere Aude Advanced Grant
 2013 Member of AcademiaNet – Expert Database for Outstanding Female Scientists and Scholars
 2014 Member of Academia Europea
 2015 Portrayed by Cell Metabolism as one of the leading female scientists in metabolism
 2015 Recipient of the Advanced Grant from the Novo Nordisk Foundation
 2016 Chair position at Danish Institute for Advanced Study
 2016 Member of the Royal Danish Academy of Sciences and Letters

Major external committees and panels

2000 - 2005 Executive board of the Danish Society for Biochemistry and Molecular Biology
 2003 - 2012 Co-founder and member of the executive board of the Danish PhD school of Metabolism
 2005 - 2010 The Danish Natural Science Research Council
 2007 - 2014 Award Committee for the European Lipid Science Award
 2008 - National Bibliometric Group for Molecular Biology, Cell Biology and Biotechnology
 2009 - The Medical and Natural Science Committee of the Novo Nordisk Foundation
 2012 - Member of the Council and the Research Committee of the Danish Diabetes Academy
 2013 - ERC panel member, from 2015 chair of ERC Consolidator Grant LS2 panel

Major internal committees

2004 – 2010 Chairman of the PhD Study Committee at Dept. of Biochemistry and Molecular Biology
 2004 – 2010 PhD Study Board of Natural Science.
 2009 – 2012 Academic Council, Faculty of Natural Science.

Editorial and Advisory Boards

2011- Editorial Board of Trends in Endocrinology and Metabolism
 2011- Editorial Board of Cell Reports
 2013- Editorial Board of Molecular and Cellular Biology
 2013- Editorial Board of Molecular Endocrinology
 2012- Scientific Advisory Board of the European Genomics Institute for Diabetes, Lille, France

2013- Scientific Advisory Board of the large scale FP7 project HUMAN

Ad hoc international evaluation tasks and referee work

- Expert scientific evaluator for ERC, EC FP6, FP7 and H2020 programs, European Foundation for the Study of Diabetes, National Institute of Health, the Finnish Academy of Science, the Norwegian Research Council, the Swiss National Fund, the French Medical Research Council, Biotechnology and Biological Science Council, UK, and the Dutch Diabetes Fond, the Russian Skolkovo Foundation,
- Member of >40 PhD and faculty position evaluation committees in Denmark, Norway, Sweden, France, and the Netherlands.
- Referee work for several journals including: Nature, Nature Med., Science, Cell, Molecular Cell, Cell Metabolism, Cell Reports, PNAS, Genes & Dev., Genome Res., J. Clin. Invest., Trends Endocrinol. & Metab., Mol. Cell Biol., Diabetes, Diabetologia, PloS Biology, Nucl. Acid Res., Endocrinology, J. Lipid Res., J. Cell Science, Mol. Syst. Biol., J. Cell. Phys., BMC Genomics, Am. J. Physiol., Obesity Rev etc.

Major international and national research consortia

- **X-TRA-NET** (<http://rxrnet.dk/>) an EU FP6 STREP (2005-2009). Coordinator.
- **MitoHealth** (<http://www.mitohealth.org/>) a Nordic Center of Excellence (2007-2013). Member of executive board.
- **AtheroRemo** (<http://www.atheroremo.org/index.html>), EU FP7 large-scale project (2008-2013).
- **PATHWAY-27** (<http://www.pathway27.eu/>), EU FP7 large-scale project (2013-2018)
- **The Danish Diabetes Academy** (<http://www.danishdiabetesacademy.dk/>) supported by the Novo Nordisk Foundation (2012-2017). Susanne Mandrup is work package leader and member of the Council and the Research Committee.
- **Villum Center for Bioanalytical Sciences**. Major instrumentation center at the Science Faculty, University of Southern Denmark supported by the Villum Foundation

Recent international meetings

Invited speaker at >45 major international meetings (Keystone, CSHL, EMBO etc) and >40 international institutions since 2007 in the field of transcriptional regulation, metabolism and adipocyte differentiation.

Organizer of the following recent international meetings:

- Nuclear Receptors Focused Conference at WorldPharma 2010, Copenhagen, July 2010
- 58th Benzon Symposium "Adipose Tissue in Health and Disease", Copenhagen, August 2012.
- Nuclear Receptors & Disease, Cold Spring Harbor, US, October 30 - November 3, 2012
- 3rd International Conference on Foodomics, Cesena, Italy, May 22-24, 2013
- Metabolism & Disease: From Cell to Organism, Cold Spring Harbor, US, August 13-17, 2013
- EMBO Nuclear Receptor meeting, Sorrento, Italy, September 2013.
- Cell Symposium – Systems Approaches to Metabolism, Chicago 1-3, 2014
- Nuclear Receptors & Disease, Cold Spring Harbor, US, October 28 - November 1, 2014
- Metabolism & Disease: From Cell to Organism, Cold Spring Harbor, US, August 11-15, 2015
- EMBO Nuclear Receptor meeting, Ajaccio, France, September 2015.
- Metabolism & Disease: From Cell to Organism, Cold Spring Harbor, US, August 11-15, 2015
- Mechanisms of Metabolic Signaling, Cold Spring Harbor, US, May 16-20, 2017

Educational activities

Principal supervisor since 1999 of: 14 post docs, 30 PhD, 34 master and 64 bachelor students.

Current research profile

The Mandrup Group (<http://www.sdu.dk/mandrupgroup>) is part of the Functional Genomics and Metabolism Research Unit (www.sdu.dk/bmb/functionalgenomics) at SDU. The research in the group focuses on understanding the transcriptional network regulating adipocyte differentiation and in the molecular cross-talk between transcriptional regulation and metabolism in mammalian cells, in particular adipocytes and pancreatic β -cells. The group combines genome-wide studies mapping factor binding, epigenetic marks and chromatin structure with detailed molecular analyses of the cross-talk between transcriptional regulators.

People: 1 PI, 2 staff scientists, 4 post docs, 7 PhD students, 7 master students, 7 bachelor/ITEK students, 1 technician, 2 technician trainees, 1 secretary.

LIST OF PEER REVIEWED PUBLICATIONS

Susanne Mandrup

1. **S. Mandrup**, P. Højrup, K. Kristiansen & J. Knudsen (1991). Gene synthesis, expression in *Escherichia coli*, purification and characterization of the recombinant bovine acyl-CoA-binding protein. *Biochem. J.* **276**, 817-823.
2. K. V. Andersen, S. Ludvigsen, **S. Mandrup**, J. Knudsen, & F. M. Poulsen (1991). The Secondary Structure in Solution of Acyl-Coenzyme A Binding Protein from Bovine Liver Using ¹H Nuclear Magnetic Resonance Spectroscopy. *Biochemistry* **30**, 10654 - 10663.
3. H. O. Hansen, P. H. Andreasen, **S. Mandrup**, K. Kristiansen & J. Knudsen. (1991). Induction of acyl-CoA-binding protein and its mRNA in 3T3-L1 cells by insulin during preadipocyte-to-adipocyte differentiation. *Biochem. J.* **277**, 341-344.
4. **S. Mandrup**, R. Hummel, S. Ravn, G. Jensen, P.H. Andreasen, N. Gregersen, J. Knudsen & K. Kristiansen (1992). Acyl-CoA-binding Protein/Diazepam-binding Inhibitor Gene and Pseudogenes. A Typical Housekeeping Gene Family. *J. Mol. Biol.* **228**, 1011-1022.
5. **S. Mandrup**, R. Jepsen, H. Skøtt, J. Rosendal, P. Højrup, K. Kristiansen & J. Knudsen (1993). Effect of heterologous expression of acyl-CoA-binding protein on acyl-CoA level and composition in yeast. *Biochem. J.* **290**, 369-374.
6. **S. Mandrup**, P. H. Andreasen, J. Knudsen & K. Kristiansen (1993). Genome organization and expression of the rat ACBP gene family. *Mol. and Cell. Biochem.* **123**, 55-61.
7. J. Knudsen, **S. Mandrup**, J.T. Rasmussen, P.H. Andreasen, F. Poulsen & K. Kristiansen (1993). The function of acyl-CoA-binding protein (ACBP)/Diazepam binding inhibitor (DBI). *Mol. and Cell. Biochem.* **123** , 129-138.
8. M. Elholm, G. Bjerking, J. Knudsen, K. Kristiansen & **S. Mandrup** (1996). Regulatory elements in the promoter region of the rat gene encoding the acyl-CoA-binding protein. *Gene* **17**, 233-238.
9. J. B. Krøll, J. Nøhr, N. Gregersen, K. Kristiansen and **S. Mandrup** (1996). Structure of the rat gene encoding the multifunctional acyl-CoA-binding protein: Conservation of intron 1 sequences in rodents and man. *Gene* **173**, 239-240.
10. C.-S. Hwang, **S. Mandrup**, O. A. MacDougald, D. Geiman and M. D. Lane (1996). Transcriptional activation of the mouse obese (ob) gene by CCAAT/enhancer binding protein α . *Proc. Natl. Acad. Sci. USA* **93**, 873-877.
11. **S. Mandrup**, T. M. Loftus, O. A. Macdougald, F. P. Kuhajda and M. D. Lane (1997). The *obese* gene is expressed at *in vivo* levels in implanted 3T3-F442A cells. *Proc. Natl. Acad.Sci. USA.* **94**, 4300-4305.
12. **S. Mandrup** and M. Daniel Lane (1997). Regulating adipogenesis. *J.Biol.Chem.* **272**, 5367-5370.
13. C.-S. Hwang, T.M. Loftus, **S. Mandrup** and M.D. Lane (1997). Adipocyte differentiation and leptin expression. *Ann.Rev.Cell Biol.& Dev.* **13**, 231-259.
14. **S. Mandrup**, R. V. Sørensen, T. Helledie, J. Nøhr, T. Baldursson, C. Gram, J. Knudsen and K. Kristiansen (1998). Inhibition of 3T3-L1 adipocyte differentiation by expression of acyl-CoA binding protein antisense RNA. *J. Biol. Chem.* **273**, 23897-23903.
15. S. Kussmann-Gerber, I. Kratchmarova, **S. Mandrup** and K. Kristiansen (1999). A micro-column-based procedure for analysis of protein-protein intereaction. *Analytical Biochemistry* **271**, 102-105.
16. T. Helledie, M. Antonius, R. V. Sørensen, D. A. Bernlohr, S. Kølvråa, K. Kristiansen and **S. Mandrup** (2000). Lipid-binding proteins modulate ligand-dependent trans-activation by peroxisome proliferator-activated receptors and localize to the nucleus as well as the cytoplasm. *J.Lipid Res.* **41**, 1740-1751.
17. M. Elholm, I. Dam, C. Jørgensen, A. Krogsdam, D. Holst, I. Kratchmarova, M. Göttlicher, J.-Å. Gustafsson, R. K. Berge, T. Flatmark, J. Knudsen, **S. Mandrup**, and K. Kristiansen (2001). Acyl-CoA esters antagonize the

- effects of ligands on PPAR α conformation, DNA binding and interaction with co-factors. *J. Biol. Chem.* 276, 21410-21416.
18. O. A. Macdougald and **S. Mandrup** (2002) Adipogenesis: The forces that tip the scales. *Trends Endocrinol. Metab.* 13, 5-11.
 19. A.M. Krogsdam, C.A.F. Nielsen, T. Helledie, S. Neve, B. Thomsen, C. Bendixen **S. Mandrup** & K. Kristiansen (2002) N-CoR dependent repression of PPAR δ -mediated transactivation. *Biochem. J.* 363, 157-165.
 20. L. Madsen, M. Guerre-Millo, K. Berge, E. Bergene, E. N. Flindt, E. Sebokova, A. C. Rustan, J. Jensen, **S. Mandrup**, K. Kristiansen, I. Klimers, B. Staels and R. K. Berge (2002). Tetradecylthioacetic acid induces expression of PPAR α target genes, improves insulin sensitivity and reduces adiposity in two animal model models of insulin resistance. *J. Lipid. Res.* 43, 742-750.
 21. C. Jørgensen, A.-M. Krogsdam, I. Kratchmarova, T. M. Willson, J. Knudsen, **S. Mandrup** & K. Kristiansen (2002) Opposing effects of fatty acids and acyl-CoA esters on conformation and cofactor recruitment of peroxisome proliferator-activated receptors. *Ann. N. Y. Acad. Sci.* 967, 431-39.
 22. T. Helledie, L. Grøntved, S. S. Jensen, P. Kiilerich, L. Rietveld, T. Albrektsen, M. S. Boysen, J. Nøhr, L. K. Larsen, J. Fleckner, H. G. Stunnenberg, K. Kristiansen and **S. Mandrup** (2002). The gene encoding the acyl-CoA binding protein is activated by peroxisome proliferator activated receptor γ through an intronic response element functionally conserved between man and rodents. *J. Biol. Chem.* 277, 26821-30, 2002.
 23. L. K. Larsen, E.-Z. Amri, **S. Mandrup**, C. Pacotm and K. Kristiansen (2002) Genomic organization of the mouse PPAR δ gene. Alternative promoter usage and splicing yield transcripts exhibiting differential translational efficiency. *Biochem. J.* 366, 767-775.
 24. T. Helledie, C. Jørgensen, M. Antonius, A.-M. Krogsdam, I. Kratchmarova, K. Kristiansen and **S. Mandrup** (2002) Role of FABPs and of the acyl-CoA binding protein (ACBP) in PPAR-mediated transactivation. *Mol. Cell. Biochem.* 239, 157-164.
 25. **S. Mandrup**, N. J. Færgemann and J. Knudsen (2003) Structure, function and phylogeny of acyl-CoA binding protein. In *Cellular proteins and their fatty acids in health and disease*, ed. A.K. Dutta-Roy and F. Spener, Wiley-VCH, Weinheim, p. 151-171.
 26. H. Zhang, J. Nøhr, C.H. Jensen, R.K. Petersen, E. Bachmann, B. Teisner, L.K. Larsen, **S. Mandrup**, & K. Kristiansen (2003) IGF-1/insulin bypasses pref-1/FA1-mediated inhibition of adipocyte differentiation. *J. Biol. Chem.* 278, 20906-20914.
 27. J.M. Brown, M.S. Boysen, S.S. Jensen, R.F. Morrison, J. Storkson, R.L. Currie, M. Pariza, **S. Mandrup** & M.K. McIntosh (2003) Trans-10, cis-12 conjugated linoleic acid decreases glucose and fatty acid uptake and oxidation and inhibits PPAR γ -dependent gene expression in human preadipocytes. *J. Lipid Res.* 44, 1287-1300.
 28. C. Fontaine, G. Dubois, Y. Duguay, T. Helledie, Ngoc Vu-Dac, P. Gervois, F. Soncin, **S. Mandrup**, J.-C. Fruchart, J. Fruchart-Najib & B. Staels (2003) The orphan nuclear receptor Rev-Erb α is a peroxisome proliferator-activated receptor (PPAR) γ target gene and promotes PPAR γ -induced adipocyte differentiation. *J. Biol. Chem.* 278, 37672-37680.
 29. M.S. Winzell, H. Svensson, S. Enerbäck, K. Ravnskjaer, **S. Mandrup**, Victoria Esser, P. Arner, M.-C. Alves-Guerra, B. Miroux, F. Sundler, B. Ahren & C. Holm (2003) Pancreatic β -cell lipotoxicity induced by overexpression of hormone-sensitive lipase. *Diabetes* 52, 2057-2065.
 30. V. Rishi, J. Gal, D. Krylov, J. Fridriksson, M.S. Boysen, **S. Mandrup** & C. Vinson (2004) SREBP-1 dimerization specificity maps to both the HLH and leucine zipper domains: use of a dominant negative. *J. Biol. Chem.* 279, 11863 - 11874.
 31. J.M. Brown, M.S. Boysen, S. Chung, O. Fabiyi, R.F. Morrison, **S. Mandrup** & M. McIntosh (2004) Conjugated linoleic acid (CLA) induces human adipocyte delipidation: autocrine/paracrine regulation of MEK/ERK signaling by adipocytokines. *J. Biol. Chem.* 279, 26735-26747.

32. E. M. Lindgren, R. Nielsen, N. Petrovic, A. Jacobsen, **S. Mandrup**, B. Cannon & J. Nedergaard (2004) Norepinephrine represses PPAR (peroxisome-proliferator-activated receptor) γ 2 gene expression in brown adipocytes: intracellular signalling and effects on PPAR γ 2 and PPAR γ 1 protein levels. *Biochem. J.* 382, 597-606.
33. M.B. Sandberg, M. Bloksgaard, D. Duran-Sandoval, C. Duval, B. Staels & **S. Mandrup** (2005) The gene encoding the acyl-CoA binding protein is subject to metabolic regulation by both SREBP and PPAR α in hepatocytes. *J. Biol. Chem.* 280, 5258-5266.
34. K. Ravnskjaer, M. Boergesen, B. Rubi, J.K. Larsen, Tina Nielsen, J. Fridriksson, P. Maechler & **S. Mandrup** (2005) PPAR α potentiates whereas PPAR γ attenuates glucose-stimulated insulin secretion in pancreatic β -cells. *Endocrinology* 146, 3266-76.
35. M.B. Sandberg, J. Fridriksson, L. Madsen, V. Rishi, C. Vinson, H. Holmsen, R.K. Berge & **S. Mandrup** (2005) Glucose-induced lipogenesis in pancreatic β -cells is dependent on SREBP-1. *Mol. Cell. Endocrinol.* 240, 94-106.
36. K. Ravnskjaer, M. Boergesen, L. T. Dalgaard & **S. Mandrup** (2006) Glucose-induced repression of PPAR α gene expression in pancreatic β -cells involves PP2A activation and AMPK inactivation. *J. Mol. Endocrinology* 36, 289-299.
37. D. Neess, P. Kiilerich, M. B. Sandberg, T. Helledie, R. Nielsen, **S. Mandrup** (2006) ACBP – a PPAR and SREBP modulated housekeeping gene. *Mol Cell. Biochem.* 284, 149-57.
38. R. Nielsen, L. Grøntved, H. Stunnenberg, **S. Mandrup** (2006) PPAR subtype and cell type specific activation of genomic target genes upon adenoviral transgene delivery. *Mol. Cell. Biol.* 26, 5698-5714.
39. T.Å. Pedersen, O. Bereshchenko, S. Garcia-Silva, O. Ermakova, E. Kurz, **S. Mandrup**, B.T. Porse and C. Nerlov (2007) Distinct C/EBP α motifs regulate lipogenic and gluconeogenic gene expression *in vivo*. *EMBO J* 26, 1081-1093.
40. W. Qiu, T. E. Andersen, J. Bollerslev, **S. Mandrup**, B. M. Abdallah, M. Kassem. (2007) Patients with High Bone Mass Phenotype Exhibit Enhanced Osteoblast Differentiation and Inhibition of Adipogenesis of Human Mesenchymal Stem cells. *J. Bone Min. Res.* 22, 1720-31.
41. O. van Beekum, A.B. Brenkman, L. Grøntved, N. Hamers, N.J.F. van den Broek, R. Berger, **S. Mandrup**, E. Kalkhoven (2008) The adipogenic acetyltransferase TIP60 targets activation function 1 of PPAR γ . *Endocrinology* 149, 1840-49.
42. R. Nielsen*, T. Å. Pedersen*, D. Hagenbeek*, P. Moulos, R. Siersbæk, E. Megens, M. Børgesen, K.-J. Francoijs, **S. Mandrup** and H. G. Stunnenberg (2008) Genome-wide profiling of PPAR γ :RXR and RNA polymerase II occupancy reveals temporal activation of distinct metabolic pathways and changes in RXR dimer composition during adipogenesis. *Genes & Dev.* 22, 2953 - 2967. (* equal contribution, † co-correspondence)
43. M. V. Hollegaard, J. Grove, P. Thorsen, X. Wang, **S. Mandrup**, M. Christiansen, B. Norgaard-Pedersen, K.R. Wojdemann, A. Tabor, J. Attermann, D. M. Hougaard (2008) Polymorphisms in the tumor necrosis factor alpha and interleukin 1-beta promoters with possible gene regulatory functions increase the risk of preterm birth. *Acta Obstetrica et Gynecologica Scandinavica* 87, 1285-90.
44. S. Carobbio, F. Frigerio, B. Rubi, L. Vetterli, M. Bloksgaard, A. Gjinovci, S. Pournourmohammadi, P. L. Herrera, W. Reith, **S. Mandrup**, and P. Maechler (2009) Deletion of glutamate dehydrogenase in beta-cells abolishes part of the insulin secretory response not required for glucose homeostasis. *J. Biol. Chem.* 284:921-929.
45. A. Bugge, L. Grøntved, M. M. Aagaard, R. Borup, and **S. Mandrup** (2009) The PPAR γ 2 A/B-domain plays a gene specific role in transactivation and co-factor recruitment. *Mol. Endocrinology* 23, 794–808.
46. M. Raff, T. Tholstrup, S. Toubro, J.M. Bruun, P. Lund, E. M. Straarup, R. Christensen, M.B. Sandberg, **S. Mandrup** (2009) A mixture of conjugated linoleic acids reduce lower body fat mass in healthy postmenopausal women. *J. Nutrition* 139, 1347-1352.

47. E. H. Jeninga, A. Bugge, R. Nielsen, S. Kersten, C. Dani, M. Wabitsch, R. Berger, H. Stunnenberg, **S. Mandrup** and E. Kalkhoven (2009) Peroxisome Proliferator-Activated receptor γ (PPAR γ) regulates expression of the anti-lipolytic G-protein-coupled receptor 81 (GPR81/Gpr81). *J. Biol. Chem.* **284**, 26385-26393.
48. F. Lalloyer, T. Å. Pedersen, B. Gross, S. Yous, E. Vallez, J.-Å. Gustafsson, **S. Mandrup**, C. Fiévet, B. Staels, A. Tailleux (2009) The rexinoid bexarotene modulates triglyceride but not cholesterol metabolism via gene specific permissivity of the RXR/LXR heterodimer. *Arterioscler Thromb Vasc Biol.* **29**, 1488-1495.
49. S. Pozzi, M. Børgesen, Satrajit Sinha, **S. Mandrup**, R. Mantovani (2009) Peroxisome proliferator activated receptor alpha is a functional target of p63 in adult human keratinocytes. *J. Invest. Dermatology*, **129**, 2376-85.
50. F. Frigerio, C. Bartley, A. Usardi, K. Ravnskjær, **S. Mandrup**, P. Maechler (2010) PPAR α protects against fatty acid induced INS-1E β -cell dysfunction by preserving carbohydrate metabolism. *Diabetologia*, **53**, 331-340.
51. A. Kennedy, K. Martinez, S. Schmidt, **S. Mandrup**, K. LaPoint, M. McIntosh (2010) Antiobesity Mechanisms of Action of Conjugated Linoleic Acid. *J. Nutr. Biochem.* **21**, 171-9.
52. B. Rauwel, B. Mariamé, H. Martin, R. Nielsen, S. Allart, B. Pipy, **S. Mandrup**, M. D. Devignes, D. Evain-Brion, T. Fournier, C. Davrinche (2010) Activation of PPAR γ by human cytomegalovirus for de novo replication impairs migration and invasiveness of cytotrophoblast from early placenta. *J. Virology* **84**, 2946 - 54.
53. L. Grøntved, M. S. Madsen, M. Børgesen, R. G. Roeder, **S. Mandrup** (2010) MED14 tethers the Mediator to the N-terminal domain of PPAR γ and is required for full transcriptional activity and adipogenesis. *Mol. Cell Biol.* **30**, 2155-69.
54. K. Ravnskjær, F. Frigerio*, M. Børgesen*, T. Nielsen, P. Maechler, **S. Mandrup** (2010) PPAR δ is a fatty acid sensor, which activates mitochondrial oxidation and protects insulin secreting cells against lipotoxicity. *J. Lipid Res.* **51**, 1370-1379. (* equal contribution)
55. A. Bugge*, M. Siersbæk*, M. S. Madsen, A. Göndör, C. Rougier, **S. Mandrup** (2010) A novel intronic peroxisome proliferator-activated receptor enhancer in the uncoupling protein (UCP) 3 gene as a regulator of both UCP2 and -3 expression in adipocytes. *J. Biol. Chem.* **285**, 17310-17317. (*equal contribution)
56. A. Kennedy, K. Martinez, S. Chung, K. LaPoint, R. Hopkins, S.F. Schmidt, K. Andersen, **S. Mandrup**, M. McIntosh (2010) Inflammation and insulin resistance induced by trans-10, cis-12 conjugated linoleic acid are dependent on intracellular calcium levels in primary cultures of human adipocytes. *J. Lipid Res.* **51**, 1906-1916.
57. J. Tuckermann, W. Bourguert, **S. Mandrup** (2010) Nuclear Receptors – Transcription factors and drug targets connecting basic research with translational medicine. *Mol. Endocrinol.* **24**, 1311-1321.
58. R. Siersbæk, R. Nielsen, **S. Mandrup** (2010) PPAR γ in adipocyte differentiation and metabolism - novel insights from genome-wide studies. *FEBS Lett.* **584**, 3242-3249.
59. A. Bugge, **S. Mandrup** (2010) Molecular mechanisms and genome-wide aspects of PPAR subtype specific transactivation. *PPAR Res.* **2010**, ID 169506, 1-12.
60. A. Nebbioso, D'A. Carmela, A. Bugge, R. Sarno, S. Valente, D. Rotili, F. Manzo, D. Teti, **S. Mandrup**, P. Ciana, A. Maggi, A. Mai, H. Gronemeyer, L. Altucci (2010) HDACs class II selective inhibition alters nuclear receptor dependent differentiation. *J. Mol. Endocrinol.* **45**, 219 - 228.
61. D. Neess*, M. Bloksgaard*, S. Bek, A.-B. Marcher, I.C. Elle, T. Helledie, M. Due, V. Pagmantidis, B. Finsen, J. Wilbertz, M. Kruhøffer, N. Færgeman, **S. Mandrup** (2011) Disruption of the acyl-CoA binding protein results in delayed hepatic adaptation to the metabolic changes at weaning. *J. Biol. Chem.* **286**, 3460-3472. (*equal contribution)

62. S. F. Schmidt*, M. Jørgensen*, Y. Chen, R. Nielsen, A. Sandelin, **S. Mandrup** (2011) Cross species comparison of C/EBP α and PPAR γ profiles in mouse and human adipocytes reveals interdependent retention of binding sites. *BMC Genomics* 12: 152, 1-16 (*equal contribution, α co-correspondence).
63. C. J. Villanueva, H. Waki, C. Godio, R. Nielsen, W.-L. Chou, L. Vargas, K. Wroblewski, C. Schmedt, R. Boyadjian, **S. Mandrup**, A. Hevener, E. Saez, P. Tontonoz (2011) TLE3 is a dual function transcriptional coregulator of adipogenesis. *Cell Metabolism* 13, 413-27.
64. M. Børgesen*, L.L.C. Poulsen*, S. F. Schmidt, F. Frigerio, P. Maechler, **S. Mandrup** (2011) ChREBP mediates glucose-repression of PPAR α expression in pancreatic β -cells. *J. Biol. Chem.* 286, 13214-13225 (*equal contribution).
65. R. Siersbæk, R. Nielsen, S. John, M.-H. Sung, S. Baek, A. Loft, G. L. Hager, **S. Mandrup** (2011) Extensive chromatin remodeling and establishment of transcription factor 'hotspots' during early adipogenesis. *EMBO J* 30, 1459-72 (highlighted in 'Have You Seen' in the same issue) (α co-correspondence).
66. M. M. Aagaard, R. Siersbæk, **S. Mandrup** (2011) Molecular basis for gene-specific transactivation by nuclear receptors. *BBA-Molecular Basis of Disease* 1812, 824-35.
67. R. Siersbæk, R. Nielsen, **S. Mandrup** (2012) Transcriptional networks and chromatin remodeling controlling adipogenesis. *Trends Endocrinol. Metab.* 23, 56-64. (Featured article, front cover, and rated among top ten articles of the year)
68. M. Børgesen, T. Å. Pedersen, S. vanHeeringen, B. Gross, Hagenbeek, C. Bindesbøll, S. Caron, F. Lalloyer, K. Steffensen, H. Nebb, J.-Å. Gustafsson, H. Stunnenberg, B. Staels, **S. Mandrup** (2012) Genome-wide profiling of LXR, RXR and PPAR α in mouse liver reveals extensive sharing of binding sites. *Mol. Cell. Biol.* 32, 852-867.
69. S. F. Schmidt, M. Jørgensen, A. Sandelin, **S. Mandrup** (2012) Cross-species ChIP-seq studies provide insights into regulatory strategies of PPAR γ in adipocytes. *Transcription* 3, 19-24.
70. **S. Mandrup**, G. Hager (2012) Extensive chromatin remodeling and establishment of transcription factor 'hotspots' during early adipogenesis. *Nucleus* 3, 12-15.
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