

ERNESTO CARAFOLI - CURRICULUM VITAE

Born 1932, in Italy. M.D. 1957, University of Modena, Italy. "Abilitation" (Libera Docenza) in General Pathology (1965) and in Biochemistry (1968). Fogarty International Post-doctoral Fellow in the Dept. of Physiological Chemistry of the Johns Hopkins University, Baltimore, MD, USA (1963-1965), Visiting Lecturer in the same department 1968-1969. Assistant Professor of General Pathology in the University of Modena School of Medicine, Italy (1959-1965), Associate Professor of General Pathology at the same School (1965-1972), Professor of General Pathology, University of Padova School of Medicine (Italy) (1973), Professor of Biochemistry, Swiss Federal Institute of Technology (ETH) (Zurich, Switzerland), (1973 to 1998), Chairman of the Dept. of Biochemistry of the Swiss Federal Institute of Technology (ETH) in 1978 and 1987-1991, Professor of Biochemistry, University of Padova, School of Medicine, Italy (since 1990). From 1971-1991 Visiting Professor for various periods in several Italian Universities, at the University of Nairobi (Kenya) at the Universidad Nacional Autonoma of Mexico, Mexico City (Mexico) at the Universidad Central de Venezuela, Caracas (Venezuela), and at Case Western Reserve University, Cleveland (OH, USA). Scientific Director of the Venetian Institute of Molecular Medicine (Padova, Italy), (2000 - 2005).

Awards and honors

- Prize Giacomozzi Foundation as the best graduate in Medicine of the University of Modena in the year 1957.
- Award and Medal of the International Society for Heart Research for outstanding research in heart biochemistry, 1984-1985.
- Fogarty Scholar-in-Residence, National Institutes of Health, Bethesda, MD, USA, 1985, 1986, 1989.
- Member of the European Molecular Biology Organization (EMBO), 1985.
- Member of The Johns Hopkins Society of Scholars, Johns Hopkins University, Baltimore, MD, USA, 1986.
- Corresponding member of the Venetian Institute of Sciences, Letters, and Arts, Venice, Italy, 1986.
- Honorary Member, American Society of Biochemistry and Molecular Biology, 1990.
- Member, Academia Europaea, 1991.
- Medal of the National Academy of Sciences, Italy, 1991.
- Doctor in Natural and Mathematical Sciences, Honoris Causa, University of Åbo, Finland, 1993.
- Honorary Member, Medical Academy of Rumania, 1995.
- Prize for Physiology and Pathology awarded by the Italian Minister of Culture, 1995.
- Doctor in Medicine, Honoris Causa, Carol Davila University, Bucharest, Rumania, 1995.
- G. Palade Medal, Carol Davila University, Bucharest, Rumania, 1995.
- Corresponding Member of the Accademia Nazionale dei Lincei, Italy, 1996
- Welcome Visiting Professor, Case-Western Reserve University, Cleveland, OH, USA, 1996
- Corresponding Member, Galileian Academy, Padova, 1996.
- Burroughs Wellcome Visiting Professorship, Case-Western Reserve University, Cleveland, OH, USA, 1997
- Doctor in Medicine and Pharmacy, Honoris Causa, University of Cluj, Cluj-Napoca, Rumania, 1998
- Fellow, International Academy of Cardiovascular Sciences, 2002
- Fellow, Faculty of 1000, 2002
- Honorary Member, Society of Medicine and Natural Sciences of the University of Parma, 2002
- Honorary Member, World Innovation Foundation, 2003
- Professor Honoris Causa, Institute of Biological Investigations Clemente Estable. Montevideo, Uruguay, 2005
- Medal of Merit, International Society for Heart Research, European Section, 2005
- "Grande Ufficiale" of the Order of Merit of the Republic of Italy, 2006
- Marcell Nencki Prize (Polish Academy of Sciences), 2010
- Medal of Merit, International Academy of Cardiovascular Sciences, 2010
- International Ambassador of the University of Padova, 2011
- Ph. D. Honoris Causa, University of Buenos Aires, Argentina. 2012

Honorary and plenary Lectures

- Mozolowski Memorial Lecture, University of Gdansk, Poland, 1989
- Plenary Lecture, 21st European Symposium on Calcified Tissues, Jerusalem, Israel, 1989
- Keynote Lecture, 20th Congress of the Italian Society of Pathology, Modena, Italy, 1990
- Teijin Plenary Lecture, 8th International Workshop on Vitamin D, Paris, France, 1991
- Plenary Lecture, 20th European Muscle Congress, Bielefeld, Germany, 1992
- Keynote Lecture, 15th Congress of the International Society of Hypertension, Melbourne, Australia, 1994
- A.I. Grollman Memorial Lecture, University of Maryland, Baltimore, MD, USA, 1994
- Keynote Lecture, 9th International Symposium on Calcium Binding Proteins, Airlie House, VA, USA, 1995
- Plenary Lecture, 7th FAOB Congress, Satellite Symposium on Transport ATPases, Sydney, Australia, 1995
- Plenary Lecture, 1st European Meeting, Society of Biological Inorganic Chemistry, Louvain, Belgium, 1996
- EMBO Lecture, Annual Meeting of the Danish Society of Biochemistry, Avernæs, Eberup, Denmark, 2002.
- T. Bueecher Lecture, FEBS Meeting on Signal Transduction, Bruxelles, Belgium, 2003
- Plenary Lecture, Workshop on Calcium Release and Cellular Calcium Signalling Domains, Marbella, Chile 2003
- Grecc Third International Lecture, Bronx Veteran Administration, New York, NY, USA, 2003
- Antonini Memorial Lecture 47th Congress of the Italian Society of Biochemistry, Ferrara, Italy, 2003
- Italian Science Lecture, Italian Embassy, London (UK), 2003
- Sacconi Memorial Lecture in Chemistry, University of Florence, Italy, 2004
- 2nd Ebashi Lecture, 14th International Symposium on Calcium Binding Proteins and Calcium Function in Health and Disease, Banff, Canada, 2005
- Plenary Lecture, 3rd Parnas Conference, Kiev, Ukraine, 2005
- Plenary Lecture, 5th International Conference on Na/Ca exchange, Bruxelles, Belgium, 2006
- Keynote Lecture, 41st World IUPAC Congress, Torino (Italy), 2007
- Keynote Lecture, FASEB Conference on the Biology of Calpains in Health and Disease, Snowmass Village, CO, USA, 2007
- EMBO Lecture, 12th International ATPase Conference, Aarhus, Denmark, 2008
- Plenary Lecture, 4th Benozzi Symposium on Neurological Diseases, Rehovoth, Israel, 2008
- 10th Lehninger Lecture, Johns Hopkins University, Baltimore, MD, USA, 2009
- Keynote Lecture, 2nd International Workshop on Expression, Structure, and Function of Membrane Proteins. Florence, Italy, 2009
- Plenary Lecture, 16th International Symposium on Calcium Binding Proteins and Calcium Function in Health and Disease, Pucon, Chile, 2009
- Keynote Lecture, 7th Annual Scientific Conference of the Society for Heart and Vascular Metabolism, Padova, Italy, 2009
- Special Evening Lecture, 16th European Bioenergetics Conference, Warsaw, Poland, 2010
- Plenary Lecture, International Seminar on Progress in Renal Biochemistry and Physiology, Gdansk, Poland, 2011

Societies

A dozen professional Societies, including the Swiss Biochemical Society, the Biochemical Society, the American Society for Cell Biology, the American Society of Biological Chemistry and Molecular Biology (Honorary Member), the Society of General Physiology, the Biophysical Society, the Italian Society of Biochemistry.

Editorial activity

Since 1969 member of the Editorial or Advisory Board of several journals in the area of biochemistry (among them European Journal of Biochemistry, Archives of Biochemistry and Biophysics, Biochemistry, EMBO Journal, Biochimica et Biophysica Acta, Biochemical and Biophysical Research Communications (Chief Editor since January 2013), Current Topics in Membranes and Transport, Advances in Second Messengers and Protein Phosphorylation, Cell Calcium, CMLS, Journal of Biological Chemistry). Editor or co-editor of some 20 books in the area of membrane biochemistry, calcium biochemistry and physiology, bioenergetics. Associate Editor of the Encyclopedia of Biological Chemistry, Elsevier-Academic Press, first edition 2004, second edition 2012.

Other Academical Activities

Member of the Scientific Committees (i.e., study sessions) of several European Agencies, e.g., FNRS (Belgium), EEC Funding Programmes, Swiss Funding Agencies. Chairman of the IUBMB Committee on Hormones and Receptors. Member of Scientific Committees of Institutions in France (CNRS), in Belgium (FNRS) and in Germany (Max-Planck Society). Member of the evaluation committees of Academical Institutions in Israel, Italy, The Czech Republic, France, Belgium, Hungary, Denmark, Germany, Sweden, Greece. Vice-President of ICRO (International Cell Research Organisation), 1988 – 1994, President 1995-1995. Member of the International Scientific Advisory Board of UNESCO (ISAB), 1996-1999.

Organization of Congresses and Advanced Courses

Co-organizer of about 40 International Congresses and Symposia, and of about 25 Advanced Courses, (held in a dozen countries on behalf of FEBS, ICRO/UNESCO, the Gulbenkian Foundation, WHO).

Invited lectures

At more than 300 International Congresses, Symposia, Colloquia. Communications (or posters) at more than 200 International Congresses, Symposia, Colloquia.

Seminars

Some 500 seminars at Universities and other Research Institutions.

Publications

About 500 articles in refereed journals on topics of muscle biochemistry, membrane biochemistry, mitochondrial bioenergetics, membrane transport of ions (calcium, specially by pumps) regulation of calcium metabolism. About 100 book chapters and more than 80 invited review articles on the same topics. Editor or co-editor of about 30 books on topics of membrane biochemistry, cell signaling (emphasis on calcium), mitochondrial bioenergetics.

Current H Index = 95, The People's Republic of China

Current number of citations= about 35,000