

Conferencia: Simulating DNA from the electron to the chromosome

Modesto Orozco

IRB - Barcelona

28/09/15

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Aula de Seminarios do
CIQUS

16:30 h

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XUNTA DE GALICIA

CONSELLERÍA DE CULTURA, EDUCACIÓN
E ORDENACIÓN UNIVERSITARIA

OROZCO Modesto

Born in Barcelona, Spain, October 12th 1962.

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Education

Graduate (M.Sc.) in Chemistry (1985) from the Universitat Autònoma de Barcelona, Ph.D. in Biochemistry (1990) from the same university.

Appointments

Pre-Doctoral research fellow of the Spanish MEC. Departament de Bioquímica. Universitat de Barcelona. 1987-1989. Assistant Professor of Biochemistry. Departament de Bioquímica. Universitat de Barcelona. 1989-1990. Professor of Biochemistry and Molecular Biology. Departament de Bioquímica. Universitat de Barcelona. 1991-2001. Invited Scientist. Department of Chemistry. Yale University 1991-1993. Full Professor of Biochemistry and Molecular Biology. Departament de Bioquímica. Universitat de Barcelona 2002-present. Director of the Structural Bioinformatics Node. Spanish National Bioinformatics Institute. 2003-. Director Molecular Modeling and Bioinformatic Unit. Institut of Research in Biomedicine. Parc Científic de Barcelona 2001-. Director of the Life Sciences Department. Barcelona Supercomputer Center, 2005-. Director of the Joint IRB-BSC research program in computational biology.

Teaching

Professor of the following undergraduate courses at the University of Barcelona: Biochemistry, Macromolecular Structure, Protein Chemistry, General Chemistry. Professor of the following PhD courses: Molecular Recognition, Bioinformatics, Nucleic Acid Chemistry. Organizer of different postgraduate course in Theoretical Biochemistry and Bioinformatics.

Services to Societies

Counselor of the International Society of Quantum Biology and Pharmacology. Coordinator of the Catalan Network of Bioinformatics. Coordinator of the Spanish Network of Molecular Modelling and Chemoinformatics. Coordinator of the Group of Theoretical Molecular Biology of the Spanish Society of Biochemistry and Molecular Biology

Advisory Committees

Referee of projects for the European Union, Spanish Ministry of Education and Science, Spanish Ministry of Health. Referee of the Colombian Science Agency. Advisor of the Philip Morris External Research Program. Member of the advisory board of the Argentina Science Foundation. Consultant of Boehringer Ingelheim Pharmaceutical, Inc. USA. Consultant of Almirall Prodesfarma. Barcelona. Spain. Consultant of Uriach & Cia. Barcelona. Spain. Consultant of Kraft, Inc. USA. Consultant of the "Subdirección General de Planificación y Seguimiento". Spanish Ministry of Science and Technology. 2002-2004. Member of the Panel of Experts of the Ministry of Science and Technology in the evaluation of Biomedicine projects. 2003. Member of the Evaluation Panel of the Program Ramon & Cajal. 2003-2006. Member of the Evaluation Panel of the Program Juan de la Cierva. 2004. Member of the Panel of Experts of the Ministry of Science and Technology in the design of the General Research Plan for 2004-2007. Area of Biotechnology. Member of the National Agency of Research Evaluation. Member of the Steering and Scientific panel of European Supercomputer Initiative PRACE. 2010-

Editorial experience

Associated Editor Wiley Interdisciplinary Reviews. Advisory editor of Theoretical Chemistry Accounts: Theory, Computation and Modeling. Member of the Editorial board of Journal of Computational Chemistry. Member of the Editorial board of Journal of Chemical Theory and Computation. Referee for over 30 international journals (including Science, Nature Methods, PNAS, Angew.Chem., Genome Res., JACS,...).

Awards

Fullbright fellowship. 1992, 1993. International award of the Chemical Structure Association for young scientists. 1992. Award of the Spanish Ministry for excellence in teaching in the period 1987-1992. Award of the Spanish Ministry for excellence in scientific research in the period 1987-1993. Award of the Spanish Ministry for excellence in scientific research in the period 1994-2000. Annual award "Sant Albert" of the Catalan Chemical Association . 1995 National annual award for young scientists "Díaz de Santos". 1997 National annual award for young scientists of the Spanish Society of Biochemistry (SEBBM). 2000 Distinción Investigadora de la Generalitat de Catalunya. 2000 (Annual award of Science of the Catalan Science Ministry) FEBS Anniversary Prize of the Gesellschaft für Biochemie und Molekularbiologie. 2001. National Award of the Spanish Biophysics Society (Premio Bruker), 2010. Catalan Award of Excellence ICREA-Academia 2011. ERC- Advanced Grant 2012-2017

Research

Research activity focussed on the theoretical study of biological systems with emphasis in the rationalization by means of physical models of the behaviour of nucleic acids and proteins. Nearly 400 papers published in international peer-reviewed journals like Nature, Nature Genetics, Nature Biotech, Nature Structure and Molecular Biology, Nature Methods, Nature Commun, Proc.Natl.Acad.Sci.USA, Chem.Rev., Angew. Chem.Int.Ed., Nature Biotech., Chem.Soc.Rev., Acc.Chem.Res., J.Am.Chem.Soc., Genom. Biol., Nucleic Acids Res., J.Biol.Chem., J.Mol.Biol.,... More than 17700 citations (GS), Hirsch index 72. *Highest H-index for a Spanish Chemist in "ISI-Multidisciplinary Chemistry Area". Number 5th in "ISI-Chemistry Physics area", Number 5th in "ISI-Biochemistry and Molecular Biology area". Taken from <http://indice-h.webcindario.com/>*

Publications in very High Impact Journals since 2010

Nature	3	Nature Genetics	2	Nature Biotech.	1	Nature Methods	2
Nature Structure	1	Angew.Chem.	5	Acc.Chem.Res.	1	J.Am.Chem.Soc.	5
PNAS	3	Nature Comm.	1	Cancer Res	1	Chem.Soc.Rev	1
Genome Biol	1	Nucleic Acids Res.	12	Genome Biol	1		

Google Scholar Citation Metrics (Sept 2015):

