



Lluís Montoliu José, PhD (Barcelona, Spain, 1963)

Graduated (M.Sc.) in Biological Sciences (University of Barcelona, 1981-1986)  
PhD in Biological Sciences, "Molecular Genetics" (University of Barcelona, 1987-1990).  
PhD work on Plant Molecular Genetics, in the Centre of Research and Development (CID-CSIC, Barcelona) under the supervision of Prof. Pere Puigdomènech and Dr. Joan Rigau.  
During his PhD he described a group of new maize genes with tissue-specific expression, whose regulatory elements were used for the generation of the first transgenic plants made in Spain with potential agro-economical interest.

Since 1991 he has been working in several scientific projects within the field of Animal Transgenesis. Including his PhD he has been always working on the genetic modification of organisms (GMOs) during his entire professional career.

- 1991-1995 Postdoctoral researcher at the laboratory of Prof. Günther Schütz, at the German Cancer Research Centre (D.K.F.Z, Heidelberg, Germany). In this period he contributed to the pioneer generation of transgenic animals with yeast artificial chromosomes, the identification of key regulatory elements in the mouse tyrosinase gene and the analysis of visual abnormalities associated with albinism using mice as animal models of human congenital disease.
- 1995-1996 Postdoctoral researcher at the laboratory of Prof. Fàtima Bosch, at the Autonomous University of Barcelona (UAB, Barcelona). In this period he contributed to develop several transgenic animal models to study new gene therapy strategies for diabetes.

In 1996 he obtained a position as Tenured Scientist at CSIC (Spanish National Research Council). In 1997 he started at the CNB (National Centre for Biotechnology, CSIC), in Madrid, as a group leader. In 2005 he was promoted to a position of Research Scientist at CSIC. From 2004 to 2006 was Chair of the Department of Molecular and Cellular Biology at CNB.

At the CNB he leads a research team interested to understand the mechanisms controlling gene expression in mammals, particularly how non-coding DNA elements contribute to the functional and structural organisation of mammalian genomes. He uses genetically modified animals (transgenic mice and zebrafish) as experimental models. He also investigates the function of specific genes in the development of the retina in mammals, through the study of visual abnormalities associated to albinism. In addition, his group has generated several transgenic and knockout mice, as animal models to study human rare diseases such as albinism. His group pioneered the implementation of CRISPR-Cas9 technologies for the modification of mouse genomes in Spain, since 2013.

- National coordinator of the working group on "Transgenesis in Mammals", (1999-2008) organized within the Spanish Society of Biochemistry and Molecular Biology (SEBBM) (<http://www.cnb.csic.es/~transimp/>).
- Director of the Spanish node of the European Project EMMA (*European Mouse Mutant Archive*) (<http://www.emmanet.org>) and of the EU-Project INFRAFRONTIER (<http://www.infrafrontier.eu>) since 2008.
- Founder (2006) and President (2006-2014) of the International Society for Transgenic Technologies (ISTT) (<http://www.transtechsociety.org>).
- Treasurer and webmaster of the European Society for Pigment Cell Research (ESPCR, <http://www.espcr.org>) since 2010 and of the International Federation of Pigment Cell Societies (IFPCS, <http://www.ifpcs.org>) since 2014.
- Board member of the International Mammalian Genome Society (IMGS, <http://www.imgs.org>) since 2015.
- Honorary Professor of the Autonomous University of Madrid (UAM) since 1998, as a coordinator of the annual postgraduate course/Master on "Genetic modification in mammals".
- Appointed researcher of the CIBER-ER/ISCIII (Biomedical Research Networking Centre on Rare Diseases) <http://www.ciberer.es> since 2007.
- Member of the Editorial Board of *Transgenic Research* since 2000, Member of the Editorial Board of *Pigment Cell & Melanoma Research* since 2010, Section Editor of *BMC Biotechnology* since 2011 until 2016.
- Member of the CSIC National Bioethics Committee since 2006, of the CNB Ethics Committee on Animal Experimentation since 2007, Vice-President of the CNB/CBMSO Ethics Committee on Research since 2008 to 2016, and President of the Ethics Committee for Animal Experimentation in Public Research Institutions (OCEA-OPIs) since 2013. Member of the Ethics Panel at the ERC (EU, Brussels).
- Panel member (topic: Genetics) of the Biomedicine area of ANEP (Spanish Evaluation Agency) 2010-2015

He has authored or contributed to more than 100 scientific articles, book chapters, reviews and has co-invented several patents too. He has organized numerous congresses, courses, seminars, workshops and symposiums on animal transgenesis, cryopreservation, animal models to study human rare diseases, pigmentation, animal welfare, biotechnological applications of genetically modified animals, stem cells, cloning, albinism and bioethics.

More information available at Lluís Montoliu's laboratory web page: <http://www.cnb.csic.es/~montoliu/>

Dr. Lluís Montoliu  
CSIC Research Scientist  
Centro Nacional de Biotecnología (CNB-CSIC)  
Campus de Cantoblanco, C/ Darwin, 3  
28049 Madrid (Spain)  
Tel. +34-91-5854844 / Fax +34-91-5854506  
e-mail: [montoliu@cnb.csic.es](mailto:montoliu@cnb.csic.es)

twitter: @LluísMontoliu