MINISTERIO
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E INNOVACIÓN

Prof. M. Angela Nieto
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CURRICULUM VITAE

Name	M. Angela Nieto
Birth date and place	March 1st 1960, Madrid
Nationality	Spanish

EDUCATIONAL BACKGROUND

1982 - Bachelor of Science in Biology, Universidad Autónoma de Madrid, Spain
1983 - Master of Science in Biochemistry, Universidad Autónoma de Madrid, Spain
1987 - Ph.D. in Biochemistry and Molecular Biology. "Cum laude". Universidad Autónoma de Madrid, Spain

CURRENT POSITION AND APPOINTMENTS

- Full Professor and Head of Developmental Neurobiology at the Instituto de Neurociencias, CSIC-UMH, Alicante
- Spanish Scientific Delegate at the European Molecular Biology Laboratory (EMBL) and the European Molecular Biology Conference (EMBC)
- President of the Workshops Scientific Committee. University Menendez Pelayo, Valencia
- Member of the European Molecular Biology Organization (EMBO)
- Member of the Board of Directors of the International Society of Differentiation,
- Member of the Scientific Committee of the Ramón y Cajal Hospital, Madrid
- Member of the Scientific Committee of "Centro de Ciencias de Benasque Pedro Pascual"
- Member of the Scientific Committee of "IDIBELL", Barcelona
- Member of Faculty of 1000 (Developmental Biology)
- Editorial Board member for EMBO J, EMBO reports, Current Opinion in Genetics and Development, Mechanisms of Development, Gene Expression Patterns and Int. J. Dev. Biol.

PREVIOUS APPOINTMENTS

- 2005-2009 Member of the EMBO Committee for Publications and Electronic Information
- 2004-2008 Associate Editor of Developmental Dynamics
- 2004-2007. Member of the Executive Committee of the Spanish Research Council (CSIC)
- 2004-2007. Member of the FEBS fellowships Committee.
- 2003-2006. Committee Member for Ethics and Animal Experimentation of the Spanish Research Council (CSIC)
- 2000-2004. Treasurer of the Spanish Society for Biochemistry and Molecular Biology
- 1995-2006. Executive Committee Member for the Spanish Society of Developmental Biology
- 2004. Full Professor and Head of Department at the Cajal Institute in Madrid.
- August 2000 -2003. Associate Professor at the Cajal Institute in Madrid.
- Jan 1993 - July 2000. Assistant Professor and Group Leader at the Cajal Institute in Madrid
- Sept 1991 - Dec 1992. Scientist at the National Institute for Medical Research. London (UK).

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- July 1989 - July 1991. Grantee of the Science Plan (E.U.) National Institute for Medical Research. London (UK).
- Jan 1988 - July 1989. Postdoctoral fellow. Spanish Ministry of Education and Science at I.I.B., C.S.I.C. Madrid.
- Jan 1985 – Dec 1987. Predoctoral fellow. Spanish Research Council at Centre for Molecular Biology (CBMSO).
- Jan 1984 – Dec 1984. Instructor at the Department of Microbiology. Universidad Autónoma de Madrid.
- June 1982 – Dec 1983. Postgraduate student at Centre for Molecular Biology, Madrid.

GRANTS AS PRINCIPAL INVESTIGATOR

- Isolation and characterization of genes involved in the development of the nervous system in vertebrates. The retina as a model of the central system. DGICYT PB92-0045. May 1993-May 1996.

- Cloning and characterization of chicken genes related to the tyrosin kinase Sek receptor. MEC. April 1994-April 1995.

- An investigation of elements required for central nervous system differentiation. Wellcome Trust. 040441/94. April 94- April 97.

- Transcription factors and membrane receptors involved in the morphogenesis of the vertebrate nervous system. Plan Nacional/DGICYT. PM95-0024. June 96- June 99.

- Defining the region of neural competent tissue during gastrulation in invertebrate and vertebrate embryos. European Union Network of five European laboratories. TMR Network ERBFMRXCT-0065. 1996-2000.

- Developmental function and regulation of Eph-related receptors and their ligands. Network of five European laboratories. Biotechnology Programme PL960659. 1997-2000.

- Evaluation of plakoglobin in tumour progression. The role of the new transcription factor Slug. Comunidad de Madrid. 08.1/0020.3/97. 1998-2000. Co-Principal Investigator.

- Function and regulation of Eph receptors and their ligands. DGES. UE98-0002. 1999-2000.

- Physiopathology of epilepsy. Comunidad de Madrid. Comunidad de Madrid. 08.5/0042.2/98. 1999- 2000. Co-Principal Investigator.

- Transcription factors and membrane receptors involved in the morphogenesis of the vertebrate nervous system. DGESIC PM98-0125. August 1999- July 2002.

- The Snail gene family in tumour progression. CAM 08.10044/2000. January 2001- December 2002.

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- The *Snail* gene family in embryonic development. Functional equivalence inter-species. CSIC/CONICYT (Chile) - 2001CL0023. 2001-2002.

- Evaluation of Snail as an early marker of malignancy in human carcinomas and generation of a mouse model with conditional expression. FIS-01/985. 2001-2003.

- Expression, regulation and interaction between *hairless*, *snail* and *E-cadherin* during mouse epidermal differentiation. MCYT HF 2001-0138. 2002-2003. Co-Principal Investigator.

- The Snail gene family in tumour progression II. CAM 08.1/0049.1/2003 October 03-September 04.

- Functional analysis of the Scratch family during the development of the nervous system. CSIC/CONICYT-2003CL0010.

- Functional and evolutive analysis of the Snail superfamily. BMC2002-00383. December 2002-December 2005.

-Functional and evolutive analysis of the Snail superfamily (B). MEC-BFU2004-02665. December 2004-December 2005.

- Functional analysis of the Scratch family during development of central nervous system. GV04B-292. Enero 2004-Diciembre 2005.

- Polymeric nanostructures as synthetic vectors in gene therapy. Application to siRNA intracellular delivery: use of conditional transgenic models. NAN2004-09230-C04-04. December 2005-December 08.

- Functional and evolutive analysis of the Snail superfamily. MEC-BFU2005-05772/BMC. December 2005-December 2008.

- Cancer Biology. Ingenio 2010. Consolider. December 2007-December 2012. (I.P. Subproject 9).

- Functional analysis of the Snail family in Physiology and Pathology. Generalitat Valenciana. Prometeo 2008/049. 2008-2010.

- Snail and Prx gene families in physiology and pathology. BFU2008-01042/BMC. 2008-2013. December 2008-December 2013.

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RESEARCH PUBLCATIONS

1.- Nieto, M.A. and Palacián, E. (1983). Effects of temperature and pH on the regeneration of the amino groups of ovalbumin after modification with citraconic and dimethylmaleic anhydrides. Biochim. Biophys. Acta 749, 204-207.

2.- Jordano, J., Nieto, M.A. y Palacián, E. (1985). Dissociation of nucleosomal particles by chemical modification. Equivalence of the two binding sites for H2A.H2B dimers. J. Biol. Chem. 260, 9382-9384.

3.- Bernad, A., Nieto, M.A., Vioque, A. and Palacián, E. (1986). Modification of the amino and hydroxyl groups of lysozyme with carboxilic acid anhydrides. A comparative study. Biochim. Biophys. Acta 873, 350-355.

4.- Nieto, M.A. and Palacián, E. (1987). Pitfalls in the use of carboxilic acid anhydrides for structural studies of nucleoprotein particles. Biochem. J. 241, 621-623.

5.- Nieto, M.A. and Palacián, E. (1988). Structural changes of nucleosomal particles and isolated core-histone octamers induced by chemical modification. Biochemistry 27, 5635-5640.

6.- De La Escalera, S., Nieto, M.A. and Palacián, E. (1988). Preparation and structural characterization of nucleosomal particles lacking one H2A.H2B dimer. Biochem. Biophys. Res. Commun. 157, 541-547.

7.- Nieto, M.A. Desensamblaje de estructuras nucleoproteicas por modificación química de los residuos de lisina. Ed. UAM, 1988. ISBN 84-7477-166-8.

8.- Nieto, M.A., Hernández, F. and Palacián, E. (1989). Disassembly and reconstitution of yeast 60S ribosomal subunits. Mol. Cel. Biochem. 86, 55-63.

9.- Fernández-Ruiz, E., Rebollo, A., Nieto, M.A., Sanz, E., Somoza, C., Ramírez, F., López-Rivas, A. and Silva, A. (1989). Interleukin-2 protects from the cytolytic effect of glucocorticoids. Synergistic effect of interleukin-2 and dexametasone in the induction of high affinity interleukin-2 receptors. J. Immunol. 143, 4146-4151.

10.- Nieto, M.A. and López-Rivas, A. (1989). Interleukin-2 protects T lymphocytes from glucocorticoid-induced DNA fragmentation and cell death. J. Immunol. 143, 4166-4170.

11.- Nieto, M.A., González, A., López-Rivas, A., Díaz-Espada, F. and Gambón, F. (1990). IL-2 protects against anti-CD3-induced cell death in human medullary thymocytes. J. Immunol. 145, 1364-1368.

12.- Nieto, M.A., Bradley, L.C. and Wilkinson, D.G. (1991) Conserved segmental expression of *Krox*-20 in the vertebrate hindbrain and its relationship to lineage restriction. Development 113, Suppl. 2, 59-62.

13.- Nieto, M.A., González, A., Gambón, F., Díaz-Espada and López-Rivas, A. (1992) Apoptosis in human thymocytes after treatment with glucocorticoids. Clin. Exp. Immunol. 88, 341-344.

14.- Nieto, M.A. and López-Rivas, A. (1992). Glucocorticoids activate a suicide program in mature T lymphocytes. Protective action of interleukin-2. Annals N.Y. Acad Sci. 650, 115-120.

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15.- Nieto, M.A., Bennet, M.F., Sargent, M.G., and Wilkinson, D.G. (1992) Cloning and developmental expression of *Sna*, a murine homologue of the *Drosophila snail* gene. Development 116, 227-237.

16.- Nieto, M.A., Gilardi-Hebenstreit, P., Charnay, P. and Wilkinson, D.G. (1992) A receptor protein tyrosine kinase implicated in the segmental patterning of the hindbrain and the mesoderm. Development 116, 1137-1150.

17.- Gilardi-Hebenstreit, P., Nieto, M.A, Frain, M., Mattéi, Chestier, A., Wilkinson, D.G. and Charnay, P. (1992). *Sek*, an *Eph*-related receptor protein-tyrosine kinase gene segmentally expressed in the developing mouse hindbrain. Oncogene 7, 2499-2506.

18.- Nieto, M.A., Bradley, L.C., Hunt, P., DasGupta, R., Krumlauf, R. and Wilkinson, D.G. (1992) Molecular mechanisms of pattern formation in the vertebrate hindbrain. In "Post-implantation development in the mouse". CIBA Foundation Symposium 165, 92-187.

19.- Wilkinson, D.G. and Nieto, M.A. (1993). Analysis of gene expression by in situ hybridisation to tissue sections and in whole mount. Methods Enzymol. 225, 361-373.

20.- Nieto, M.A., Bradley, L.C. and Wilkinson, D.G. (1993) The relationship between *Krox-20* gene expression and the segmentation of the vertebrate hindbrain. In "Cell-cell signalling in vertebrate development" Academic Press. pp. 181-189.

21.- Collins, M., Perkins, G.R., Rodriguez-Tarduchy, G., Nieto, M.A. and López-Rivas, A. (1994) Growth factors as survival factors: regulation of apoptosis. Bioessays 16, 133-138.

22.- Becker, N., Seitanidou, T., Murphy, P., Mattéi, M.-G., Topilko, P., Nieto, M.A., Wilkinson, D.G., Charnay, P. and Gilardi-Hebenstreit, P. (1994) Several receptors tyrosine kinase genes of the *Eph* family are segmentally expressed in the developing hindbrain. Mech. Dev. 47, 3-17.

23.- Nieto, M.A., Sargent, M., Wilkinson, D.G. and Cooke, J. (1994) Control of cell behavior during vertebrate development by *Slug*, a zinc-finger gene. Science 264, 836-840.

24.- Martinez, S., Marín, F., Nieto, M.A. and Puelles, L. (1995). Induction of ectopic *engrailed* expression and fate change in avian rhombomeres: intersegmental boundaries as barriers. Mech. Dev. 51, 289-303.

25.- Nieto, M.A., Sechrist, J., Wilkinson, D.G. and Bronner-Fraser, M. (1995) Relationship between spatially restricted *Krox-20* gene expression in branchial neural crest and segmentation in the chick embryo hindbrain. EMBO J. 14, 1697-1710.

26.- Sechrist, J., Nieto, M.A., Zamanian, R. and Bronner-Fraser, M. (1995). Regulative response of the cranial neural tube after neural fold ablation: spatiotemporal nature of neural crest regeneration and upregulation of *Slug* (1995) Development 121, 4103-4135.

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27.- Irving, C., Nieto, M.A., DasGupta, R., Charnay, P. and Wilkinson, D.G. (1996). Progressive spatial restriction of *Sek-1* and *Krox-20* gene expression during hindbrain segmentation. Dev. Biol. 173, 26-38.

28.- Nieto, M.A., Patel, K. and Wilkinson, D.G. (1996) *In situ* hybridisation analysis of chick embryos in whole mount and in tissue sections. Methods in Cell Biol. 51, 219-235.

29.- Araujo, M. and Nieto, M.A. (1996). Characterisation of *Cek-11*, a member of the *Eph*-receptor family in the chick embryo. Int. J. Dev. Biol. Supp. 1, 143-144.

30.- Sefton, M. and Nieto, M.A. (1996). The role of Eph receptor tyrosine kinase Cek5 and its ligand Cek5L/ELF-2/LERK-2/hElk-L in the development of the chick retina. Int. J. Dev. Biol. Supp. 1, 157-158.

31.- Nieto, M.A. (1996). Molecular biology of axon guidance. Neuron 17, 1039-1048.

32.- Ros, M., Sefton, M. and Nieto M.A. (1997). *Slug*, a zinc finger gene previously implicated in the early patterning of the mesoderm and the neural crest, is also involved in chick limb development. Development 124, 1821-1829.

33.- Sefton, M., Araujo, M. and Nieto, M.A. (1997). Novel expression gradients of Eph-like receptor tyrosine kinases in the developing chick retina. Dev. Biol. 188, 363-368.

34.- Sefton, M. and Nieto, M.A. (1997). Multiple roles of Eph-like kinases and their ligands during development. Cell and Tissue Res. 290, 243-250.

35.- Araujo, M. and Nieto, M.A. (1997). The expression of *EphA7* during segmentation of the central and peripheral nervous system. Mech. Dev. 68, 173-177.

36.- Alvarez, I.S., Araujo, M. and Nieto, M.A. (1998). Neural induction in whole chick embryo cultures by FGF. Dev. Biol. 199, 42-54.

37.- Sefton, M., Sánchez, S. and Nieto M.A. (1998). Conserved and divergent roles for members of the *Snail* family of transcription factors in the chick and mouse embryo. Development 125, 3111-3121.

38.- Araujo, M., Piedra, M.E., Herrera, M.T., Ros, M.A. and Nieto, M.A. (1998). The expression and regulation of chick *EphA7* suggests roles in limb patterning and innervation. Development 125, 4195-4202.

39.- Nieto, M.A. (1999). Reorganizing the organizer 75 years on. Cell 98, 417-425.

40.- Cano, A., Pérez, M. A., Rodrigo, I., Locascio, A., Blanco, M. J., Del Barrio, M. G., Portillo, F. and Nieto, M. A. (2000). The transcription factor Snail controls epithelial-mesenchymal transitions by repressing E-cadherin expression. Nature Cell Biol. 2, 76-83 (Article, cover caption).

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41.- Paternain, A. V., Herrera, M. T., Nieto, M. A. and Lerma, J. (2000). GluR5 and GluR6 kainate receptor subunits coexist in hippocampal neurons and co-assemble to form functional receptor channels. J. Neurosci. 20, 196-205.

42.- Sefton, M., Blanco, M.J., Penela, P., Mayor, F., Jr. and Nieto, M.A. (2000). The expression of the G protein-coupled receptor kinase 2 during early mouse embryogenesis. Mech. Dev. 98, 127-131.

43.- Nieto, M.A. (2000). Polivalencia génica: La familia Snail. Investigación y Ciencia. Noviembre 2000. pp. 43-44.

44.- Manzanares, M., Locascio. A. and Nieto, M.A. (2001). The increasing complexity of the Snail superfamily in metazoan evolution. Trends Genet. 17, 178-181..

45.- Marin, O., Blanco, M.J. and Nieto, M.A. (2001). Differential expression of Eph receptors and ephrins correlates with the formation of topographic proyections in primary and secondary visual circuits of the embryonic chick forebrain. Dev. Biol. 234, 289-303.

46.- Montero, J.A., Gañán, Y., Macias, D., Rodríguez-León, J., Sanz-Ezquerro, J.J., Merino, R., Chimal-Monroy, J., Nieto, M.A. and Hurlé, J. (2001). Role of FGFs in the control of programmed cell death during limb development. Development 128, 2076-2084.

47.- Nieto, M.A. (2001). The early steps of neural crest development. Mech Dev. 105, 27-35.

48.- Locascio, A. and Nieto, M.A. (2001). Cell movements during vertebrate development: integrated tissue behaviour versus individual cell migration. Current Op. Genet. Dev. 11, 464-469.

49.- Pérez-Moreno, M., Locascio, A., Rodrigo, I., Dhont, G., Portillo, F., Nieto M.A. and Cano, A. (2001). A new role for E12/E47 in the repression of E-cadherin expression and epithelial-mesenchymal transition. J. Biol. Chem. 276, 27424-27431.

50.- Blanco, M.J., Peña-Melián, A. and Nieto, M.A. (2002). Expression of EphA receptors and A-ligands during chick cerebellar development. Mech. Dev. 114, 225-229.

51.- Del Barrio, M.G. and Nieto M.A. (2002). Overexpression of Snail family members highlights their ability to promote chick neural crest formation. Development 129, 1583-1593.

52.- Nieto, M. A. (2002). The Snail superfamily of zinc finger transcription factors. Nature Rev. Mol. Cell Biol. 3, 155-166.

53.- Blanco, M.J., Moreno-Bueno, G., Sarrio, D., Locascio, A., Cano, A., Palacios, J. and Nieto, M.A. (2002). Correlation of Snail expression with histological grade and lymph node status in breast carcinomas. Oncogene 21, 3241-3246.

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54.- Nieto, M.A. and Simpson, P. (2002). Gene families and developmental diversity. Curr. Op. Genet. Dev. 12, 383-385. Editora invitada junto a Pat Simpson.

55.- Locascio, A., Vega, S., de Frutos, C.A., Manzanares, M. and Nieto, M.A. (2002). Biological potential of a human Snail retrogene. J. Biol. Chem. 277, 38803-38809.

56.- Locascio, A., Manzanares, M., Blanco, M.J. and Nieto, M.A. (2002). Modularity and reshuffling of Snail and Slug expression during vertebrate evolution. Proc. Natl. Acad. Sci. USA. 99, 16841-16846.

57.- Valdés, F., Álvarez, A.M., Locascio, A., Vega, S., Herrera, B., Fernández, M., Benito, M., Nieto, M.A. and Fabregat, I. (2002). The epithelial mesenchymal transition confers resistance to the apoptotic effects of TGF-β in fetal rat hepatocytes. Mol. Cancer Res. 1, 68-78 (Antes Cell Growth Diff.). Elegido para el primer número y portada.

58.- Aybar, M., Nieto, M.A. and Mayor, R. (2003). Snail precedes Slug in the genetic cascade required for the specification and migration of the Xenopus neural crest. Development 130, 483-494.

59.- Manzanares, M. and Nieto, M.A. (2003). A celebration of the new head and an evaluation of the new mouth. Neuron 37, 895-898.

60.- Trainor, P. and Nieto, M.A. (2003). Jawsfest: new perspectives on neural crest lineages and morphogenesis. Development 130, 5059-5063.

61.- Vega, S., Morales, A.V., Ocaña, O., Valdés, F., Fabregat, I. and Nieto, M.A. (2004). Snail blocks the cell cycle and confers resistance to cell death. Genes Dev. 118, 1131-1143.

62.- Del Barrio, M. and Nieto, M.A. (2004). Comparative expression of Slug, RhoB and HNK-1 in the cranial neural crest of the early chicken embryo. Dev. Dyn. 229, 136-139.

63.- Manzanares, M., Blanco, M.J. and Nieto, M.A. (2004). Snail3 orthologues in vertebrates: divergent members of the Snail zinc-finger gene family. Dev. Genes Evol. 214, 47-53.

64. Marin, F. and Nieto, M.A. (2004). Expression of chicken Slug and Snail in mesenchymal components of the developing central nervous system. Dev. Dyn. 230, 244-248.

65.- Martínez-Álvarez, C., Blanco, M.J., Pérez, R., Aparicio, M., Resel, E., Rabadán, M.A., Martínez, T., and Nieto, M.A. (2004). Snail family members and cell survival in physiological and pathological cleft palates. Dev. Biol. 265, 207-218.

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66.- Peinado, H., Marín, F., Cubillo, E., Fusenig, N., Nieto, M.A. and Cano, A. (2004). Snail and E47 repressors of E-cadherin induce distinct invasive and angiogenic properties in vivo. J. Cell Sci. 117, 2827-2839.

67.- Pérez-Alcalá, S., Nieto, M.A. and Barbas, J.A. (2004). LSox5 regulates RhoB expression in the neural tube and promotes generation of the neural crest . Development 131, 4455-4465.

68.- Morales, A. and Nieto, M.A. (2004). The Snail family in gastrulation. In Gastrulation. Ed. C.D. Stern. Cold Sping Harbor Laboratory Press. Chapter 47. pp. 631-641.

69. Morales, A.V., Barbas, J. and Nieto, M.A. (2005). How to become neural crest: from segregation to delamination. Sem. Cell Dev. Biol. 16, 655-662.

70.- Barrallo-Gimeno, A. and Nieto, M.A. (2005). The evolution of the neural crest, en Neural Crest Induction and Differentiation, Ed. Jean-Pierre Saint-Jeannet. ISBN: 1-58706-070-1.

71.- Barrallo-Gimeno, A. and Nieto, M.A. (2005). The Snail genes as inducers of cell movement and survival: implications in development and cancer. Development 132, 3151-3161.

72.- Radisky, D.C., Levy, D.D., Littlepage, L. E., Fata, J.E., Liu, H., Stark, G.R., Nieto, M.A., Werb, Z. and Bissell, M. (2005). MMP-3-induced Rac1b stimulates formation of ROS, causing EMT and genomic instability. Nature 436, 123-127.

73.- Peinado, H., Iglesias de la Cruz, M.C., Olmeda, D., Csizar, K., Fong, K.S.K., Vega, S., Nieto, M.A., Cano, A. and Portillo, F. A molecular role for lysyl oxidase-like 2 enzyme in Snail regulation and tumour progression. (2005). EMBO J. 24, 3446–3458.

74.- Marin, F. and Nieto, M.A. (2006). The expression of Scratch genes in the developing and adult brain. Dev Dyn. 235, 2586-2591.

75.- Boutet, A., De Frutos, C.A., Maxwell., P.H., Mayol, M.J., Romero, J. and Nieto, M.A. (2006). Snail activation disrupts tissue homeostasis and induces fibrosis in the adult kidney. EMBO J. 25, 5603-5613

76.- Morales, A.V., Acloque, H., Ocaña, O.H., De Frutos, C.A. and Nieto, M.A. (2007). Snail at the crossroads of symmetric and asymmetric processes in the developing mesoderm. EMBO reports 8, 104-109.

77.- Boutet, A., Esteban M. Maxwell, P.H. and Nieto, M.A. (2007). Reactivation of Snail genes in renal fibrosis and carcinomas: a process of reversed embryogenesis? Cell Cycle 6, 638-642.

78.- Blanco, M.J., Barrallo-Gimeno, A., Acloque, H., Reyes, A.E., Tada, M., Allende, M.L., Mayor, R. and Nieto, M.A. (2007). Snail 1a and 1b cooperate in the anterior migration of the axial mesendoderm in the zebrafish embryo. Development 134, 4073-4081.

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79.- De Frutos, C.A., Vega, S., Manzanares, M., Flores, J.M., Huertas, H., Martinez-Frías, M.L. and Nieto M.A. (2007). Snail 1 is a transcriptional effector of FGFR3 signaling during chondrogenesis and achondroplasias. Dev. Cell 13, 872-883.

80.- Boutet, A. and Nieto M.A. (2008). Snail genes and renal diseases: what we learn from organogenesis. Med Sci (Paris) 24, 238-240.

81.- Acoque, H., Thiery, J.P. and Nieto, M.A. (2008). The Physiology and Pathology of the Epithelial to Mesenchymal Transition. EMBO reports. 9, 322-326.

82.- Ocaña, O. and Nieto, M.A. (2008). A new regulatory loop in cancer-cell invasion. EMBO reports. 9, 521–522.

83.- Acloque, H., Wilkinson, D.G. and Nieto, M.A. (2008). Chapter 9 in situ hybridization analysis of chick embryos in whole-mount and tissue sections. Methods Cell Biol. 87, 169-185.

84.- Barrallo-Gimeno, A. and Nieto, M. A. (2008). Riding the right wave: would the real neural crest please stand up?. Evol. Dev. 10, 509-510.

85.- Cano, A. and Nieto, M.A. (2008). Non-coding RNAs take centre stage in epithelial to mesenchymal transition. Trends Cell Biol. 18, 357-359.

86.- Cano, A and Nieto, M.A. (2008). Snail transcription factors. Encyclopedia of Cancer. Schwab, Manfred (Ed.) 2nd ed., LXXXVII, 3235 p.

87.- De Frutos, C.A., Dacquin, R., Vega, S., Jurdic, P., Machuca-Gayet, I. and Nieto, M.A. (2009) Snail1 controls bone mass by regulating Runx2 and VDR expression during osteoblast differentiation. EMBO J. 28, 686-696.

88.- Sobrado, V.R., Moreno-Bueno, G., Cubillo, E., Holt, L.J., Nieto, M.A., Portillo, F. and Cano, A. (2009) EMT induction by class I bHLH factors E2-2A/B. J. Cell Sci. 122, 1014-24. Clave: A

89.- Mingot, J.M., Vega, S., Maestro, B., Sanz, J.M. and Nieto, M.A. (2009) Characterization of Snail nuclear import pathways as representatives of C2H2 zinc finger transcription factors. J. Cell Sci. 122, 1452-1460. Clave: A

90.- Fernandez-Martinez, J., Vela, E.M., Tora-Ponsioen, M., Ocaña, O., Nieto, M.A. and Galceran, J. (2009). Attenuation of Notch signalling by the Down-Syndrome-associated kinase DYRK1A. J. Cell Sci. 122, 1574-1583. Clave: A

91.- Lavial, F., Acloque, H., Bachelard, E., Nieto, M.A., Samarut, J. and Pain, B. (2009). Ectopic expression of Cvh (Chicken Vasa homologue) mediates the reprogramming of Chicken Embryonic Stem cells to a germ cell fate. Dev. Biol.. 330, 73-82. Clave: A

92.- Acloque, A., Adams, M., Fishwick, K., Bronner-Fraser, M. and Nieto, M.A. (2009). Epithelial-mesenchymal tranistions: The importance of changing cells' state in development and disease J. Clin. Invest. 119, 1438-1449. Clave: R

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93. - Barrallo-Gimeno , A. and Nieto, M.A. (2009). The evolutionary history of the Snail/Scratch superfamily. Trends Genet. 25, 248-252. Clave: A

94.- Lopez-Novoa, J.M. and Nieto, M.A. (2009) Inflammation and EMT: An alliance towards fibrosis and cancer progression. EMBO Mol Med. 1, 204-213. Clave: R

95.- Nieto, M.A. (2009). The Epithelial- Mesenchymal Transitions in development and disease: old views and new perspectives. Int. J. Dev. Biol. 53, 1541-1547. Clave: R

96.- Thiery, J.P., Acloque, H., Huang, R.H., Nieto, M.A. (2009). Epithelial-mesenchymal transitions in development and disease: the remarkable plasticity of the mesenchymal state. Cell. 139, 871-890. Clave: R

97.- Martínez-Frías, M.L., de Frutos, C.A., Bermejo, E., ECEMC Working Group and Nieto, M.A. (2010). Review of the recent milestones in defining the molecular mechanisms underlying thanatophoric dysplasia and their potential therapeutic implications for achondroplasia. Am J. Med. Genet. 152A, 245-255. Clave: R

98.- Grande, M.T., Fuentes-Calvo, I., Arévalo, M., Heredia, F., Santos, E., Martínez-Salgado, C., Rodríguez-Pujol, D., Nieto, M.A. and López-Novoa, J.M. (2010). Deletion of H-Ras decreases renal fibrosis and myofibroblast activation following ureteral obstruction in mice. Kidney Int. PMID: 20032959. Clave: A

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PhD THESIS SUPERVISED

María Araujo Espejel. *EphA7 encodes a receptor tyrosin kinase involved in the regionalization and axon guidance in the developing nervous system.* Universidad Autónoma de Madrid, 1997

Marta García del Barrio. *The Snail gene family in neural crest development.* Universidad Autónoma de Madrid, 2002

Cristina Alvarez de Frutos. *Generation and analysis of mouse models with inducible Snail expression.* Universidad Complutense de Madrid, 2004

Francisca Silva. *Functional analysis of Scratch genes during the development of the chick central nervous system*. Universidad de Chile, 2006

Oscar Ocaña. *Gene regulatory cascades during epithelial to mesenchymal transitions.* Universidad Autónoma de Madrid, 2007.

Eva Rodriguez Aznar. *Functional analysis of scratch2 at the spinal cord of the zebra fish.* Universidad Miguel Hernández, 2009.

MEETINGS (INVITED SPEAKER)

- 3rd Head Group Meeting. 1991
"Developmental expression of the mouse *Snail* gene".
Eastman Dental Hospital. London

- Mammalian Genetics and Development Workshop. 1991
"Characterisation of a gene expressed in a segmental pattern during development of the hindbrain".
Royal Society. Burlington House. London

- 4th Head Group Meeting. 1992
"A receptor tyrosine kinase potentially involved in the segmentation of the hindbrain"
Eastman Dental Hospital. London

- European Developmental Biology Congress 1995
"*Slug* and the regulation of the epithelial-mesenchymal transition in the chick embryo".
Toulouse, France.

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- VI Congreso de la Sociedad Española de Neurociencias. 1995
"Aspectos moleculares del origen y la migración de las células de la cresta neural".
Valladolid.

- VIII Congreso Nacional de Diagnóstico Prenatal. 1995
"Estudio de expresión en embriones tempranos *in toto*".
Hospital Universitario Virgen Macarena. Seville.

- Franco-Hispano-Italian Meeting of Biochemistry and Molecular Biology. 1998
“Molecular Biology of axon guidance: The Eph receptors and their ligands, the ephrins”.
Marseille, France.

- International Society for Developmental Neuroscience Congress. 1998
“FGF and neural induction in the chick embryo”.
Vancouver. Canada.

- International Symposium: The Newest in Developmental Genetics. 1999
“FGF and neural induction in the chick embryo”.
Santiago. Chile.

- II Congreso Sociedad Española de Biología del Desarrollo. 1999.
“The *Snail* gene family during embryonic development: From the Epithelial to the Mesenchymal phenotype”.
Barcelona.

- European Research Conference on Developmental Biology. 2000.
"The neural-non neural border and the specification of the neural crest"
San Feliu de Guixols. Spain

- Fondation Schlumberger pour l' Éducation et la Recherche. "Molecular analysis of brain development and function". 2000.
"The *Snail* gene family and the evolution of the neural crest"
Fondation des Treilles. Provence. France.

- Jacques Monod Conference. "Cellular and molecular basis of morphogenesis". October 2000.
"The *Snail* gene family in embryonic development and tumour invasion".
Aussois, France.

- Second International Symposium on Developmental Genetics. 2001.
“The Snail gene family in evolution, development and carcinogenesis”
Santiago. Chile.

- Juan March Foundation Workshop. Common molecules in Development and Carcinogenesis. 2001. Speaker and Organizer. “The Snail gene family in evolution, development and carcinogenesis”
Madrid.

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- Juan March Foundation Workshop. Neural prepatterning and specification. 2001.
"The Snail gene family in the evolution of the neural crest"
Madrid.

- EMBO new Members Meeting. 2001.
"The Snail gene family in evolution, development and tumour progression"
Crete.

- Sociedad de Biología de Chile. 2001
"La familia génica Snail en el desarrollo embrionario y la invasión tumoral"
Pucón. Chile.

- Keystone Symposium. Development of the spinal cord and the neural crest. 2002.
"The evolution of the neural crest"
Colorado. USA.

- International Congress of the Society of Differentiation. 2002.
"The epithelial-mesenchymal transition as an ancestral function of the Snail gene family"·
Lyon, France.

- IV Jornadas Nacionales sobre Transcripción génica. 2002.
"Funciones ancestrales y derivadas de la superfamilia génica Snail"
Córdoba.

- First Meeting of the Latin America Society of Developmental Biology (LASDB). 2003.
"Snail genes as survival agents in development and tumour malignancy"
Valle Nevado. Chile.

- 2003 Neural Crest Conference. "The Neural Crest: New Perspectives on Lineage and Morphogenesis". 2003.
"The Snail gene family at the origin of the neural crest".
Portland, Oregon. USA.

- Juan March Foundation Workshop. The Dynamics of Morphogenesis: Regulation of cell and tissue movements during development. 2003. Speaker and organizer.
"The migratory phenotype of Snail-expressing cells"
Madrid.

- International Meeting on Epithelial-to-Mesenchymal Transitions. 2003.
"The epithelial-mesenchymal transition as an ancestral function of the Snail gene family".
Port Douglas, North Queensland, Australia.

- II Jornadas Oncológicas CIC. Angiogénesis y Metástasis. 2003.
"Las transiciones epitelio-mesénquima del desarrollo emrbionario como modelo de la inherente a la maliginización de tumores epiteliales".
Salamanca.

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- XXVI Reunión Anual del ECEMC. 2003.
"La familia génica Snail como ejemplo de polivalencia durante la morfogénesis embrionaria".
Special Conference.
Córdoba.

- X Congreso de la SEBC. 2003.
"Los genes Snail en la fisiología y la patología: cambios fenotípicos y supervivencia celular"
Plenary lecture.
Santander.

- 57th Meeting of the Japan Society for Cell Biology. 2004.
"The Snail gene family in physiology and pathology"
Osaka. Japón.

- IV Congreso de la Sociedad Española de Biología del Desarrollo. 2004.
"Los factores de transcripciónSnail en crecimiento y supervivencia en vertebrados"
Santander.

- XXVII Reunión Anual del ECEMC. 2004.
"Los genes Snail en el desarrollo del sistema cartílago-hueso: Análisis de un modelo transgénico condicional"
Zamora.

- III Annual Symposium. The Cell in Development. CRG. 2004
"Snail 1 genes in convergence and extension movements in the zebrafish embryo"
Barcelona

- II SFB symposium. From protein to tissue. 2005
"Snail in bone formation and homeostasis"
Dusseldorf.

-Annual American Society of Nephrology Meeting. Renal Week 2005.
"Snail and EMT"
Philadelphia

- European Renal Cell Study Group (ERCSG) 2006
"Snail regulates the epithelial phenotype in kidney development and disease"
Dublin

- Fondation Schlumberger pour l'Ëducation et la Recherche. "New perspectives in Neural Crest development". 2006.
"The role of *Snail1* genes in zebrafish development"
Fondation des Treilles. Provence. France.

- IV Zoo Meeting. 2006.
"The Snail genes in Physiology and Patholoy"
Amsterdam

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- EMBO/IGB Meeting - Workshop on Cell Migration, Tissue Invasion and Disease. 2006.
"EMT-related and EMT-independent regulation of cell movement and epithelial plasticity by Snail"
Capri, Italy

- "100 años de Neurobiología". Simposio en homenaje a Ramón y Cajal. 2006.
"De la migración de los "ganglioblastos" a la progresión tumoral"
CSIC. Madrid

- International Workshop on Cellular and Genomics studies of Wound Healing. 2007
"The Snail genes and cellular plasticity in health and disease".
CIEMAT. Madrid

- XXX Reunión Anual del ECEMC. 2007.
"Los genes Snail y las acondroplasias"
Ubeda. Spain

-II Jornadas aproximación Investigación Básica y Clínica. 2007
"Los genes *Snail* en el desarrollo normal y las patologías del adulto"
San Juan. Alicante

- 3rd International Epithelial-Mesenchymal Transition Meeting. 2007.
"EMT-related and EMT-independent regulation of cell adhesion and movement by Snail"
Krakow. Poland

- International Symposium on Mechanisms of Early Development. 2007
"The role of Snail transcription factors in directing cell movements at gastrulation stages"
Lisboa

- NAIST-GCOE symposium. 2008
"The role of *Snail* in bone development and achondroplasias"
Nara. Japan

- Cold Spring Harbor Symposium on Epitehlial to mesenchymal transitions. 2008
"Context-dependent Snail functions"
Cold Spring Harbor, NY.

- 2nd Congress of the European Society for Evolutionary Developmental biology (EED). 2008.
Plenary lecture.
"The Snail gene family in Evolution and Development".
Ghent, Belgium.

- British and Spanish Societies of Developmental Biology Joint Meeting. 2008
Opening plenary lecture
"The Snail gene family in embryonic development and tissue homeostasis"
Sevilla

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- 4th Meeting of the LASDB. 2008
"The role of Snail in bone development and achondroplasias"
Buenos Aires, Argentina.

- XXXI Congress of the Spanish Society of Biochemical and Molecular Biology (SEBBM). 2008
"La cara y la cruz de los genes *Snail*: el desarrollo embrionario y las patologías asociadas a su activación aberrante".
Bilbao, Spain

- AROLLA Meeting 2009 "DEVELOPMENTAL SYSTEMS". 2009
"An ancestral function of Snail genes in cell differentiation"
Arolla. Switzerland.

- IVth EMT Meeting. 2009
"An ancestral function for the Snail/Scratch genes in the control of cell proliferation/differentiation"
Tucson, Arizona. USA

- Molecular Biology of Development, Neurodegeneration and Genomic Medicine Course.
"La pleitropía de los genes Snail en el Desarrollo embrionario y la homeostasis tisular"
Universidad de Guadalajara, Mexico.

SEMINARS AND CONFERENCES

- University College. London. 1988 (Host: M. Raff)

- Instituto Max Planck de Psiquiatría. Martinsried. Germany1988 (Host: Y.-A. Barde)

- Department of Neurobiology. NIMR, MRC. London. 1992 (Host: R. Morris).

- Medical School. Guy's Hospital. London. 1992 (Host: A. Lumsden).

- Randall Institute. King's College. London. 1992 (Host: N. Holder).

- Universidad de Salamanca. Facultad de Ciencias. 1992 (Host: D. Martin-Zanca).

- Centro de Investigaciones Biológicas. CSIC. Madrid. 1993 (Host: F. de Pablo).

- Instituto de Parasitología. CSIC. Granada. 1993 (Host: A. López-Rivas).

- Collège de France. Paris. 1995 (Host: N. Le Douarin).

- Hospital de la Salpetrière. Paris. 1995 (Host: C. Sotelo).

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- U. Cantabria. Facultad de Medicina. Dpto. Anatomía. 1995 (Host: M. Ros).

- École Normale Superieure. Paris. 1995 (Host: J.P. Thiery).

- École Normale Superieure. Lyon. 1995 (Host: I. Machuca).

- U. Pais Vasco. Facultad de Medicina. Dpto. Biología Celular. Leioa. 1996. (Host: J. Aréchaga).

- U. Complutense de Madrid. Dpto. Anatomía. 1996 (Host: A. Peña).

- Instituto Neurociencias. Alicante. 1996 (Host: R. Gallego).

- U. Valladolid. Facultad de Medicina. Dpto. Fisiología. 1996 (Host: F. Giráldez).

- CIEMAT. Madrid. 1997 (Host: J.C. Segovia).

- U. Pompeu Fabra. IMIM. Barcelona. 1997 (Host: F. Real).

- U. Extremadura. Facultad de Ciencias. 1997. (Host: I. S. Alvarez).

- Instituto Investigaciones Biomédicas, CSIC-UAM. Madrid. 1997 (Host: M. Quintanilla).

- U. Autónoma de Madrid. Facultad de Medicina. Dpto. Morfología. 1998. (Host: C. Cavada).

- National Institute for Medical Research. MRC. London. 1998 (Host: D. Wilkinson).

- U. Autónoma de Barcelona. Facultad de Ciencias. Dpto. Bioquímica. 1998. (Host: J. Rodriguez).

- Centro Nacional de Biotecnología. CSIC. Madrid. 1998. (Host: M. Torres).

- U. Sevilla. Facultad de Medicina. Dpto. Fisiología. 1998. (Host: J. López-Barneo).

- U. Complutense de Madrid. Facultad de Medicina. Dpto. Fisiología. 1999 (Host: C. Prada).

- U. Catania. Dept. Physiological Sciences. Catania, Italia. 1999 (Host: M. Gulisano).

- Hebrew University. Jerusalem, Israel. 1999 (Host: Y. Stern-Bach)

- U. Complutense de Madrid. Facultad de Farmacia. Dpto. Bioquímica 2000 (Host: I. Fabregat).

- Hôpital de la Pitié-Salpetrière. Paris. 2000 (Host: C. Sotelo)

- Institute d' Embryologie et Biologie Cellulaire. Nogent sur Marne. Francia. 2000 (Host: N. Le Douarin)

- Centro de Biología Molecular S.O., CSIC. Madrid. 2000 (Host: E. Sánchez-Herrero).

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- Instituto Microbiologia Bioquímica. Dpto. Proliferacion-Diferenciacion. U. Salamanca-CSIC. 2000 (Host: I. Sanchez-Garcia)

- IIGB-CNR. Naples. 2001 (Host: A. Simeone).

- Instituto de Biología Molecular y Celular. Universidad Miguel Hernández. Campus de Elche. 2001 (Host: A. Ferrer-Montiel)

- Departamento de Genética. Universidad de Barcelona. Barcelona. 2001 (Host: J. García-Fernández)

- Departamento de Biología Celular. Universidad de Barcelona. Barcelona. 2001 (Host: E. Soriano)

- Hospital de la Princesa. Madrid. 2001 (Host: F. Sánchez-Madrid)

- Institute Curie. Paris. 2001. (Host: J.P. Thiery)

- Facultad de Veterinaria. Universidad de Zaragoza. 2001 (Host: M. Sarasa).

- Universidad Complutense. 2002. (Host: Facultad de Farmacia)

- Fundación Gulbenkian. Oeiras. Portugal. 2002. (Host: José A. Belo)

- Ciclo de conferencias "Vive la Ciencia". Santiago de Compostela. 2002. CSIC-Fundación BBVA.

- Universidad de Grenoble. Institut Albert Moniot. Grenoble. 2002 (Host: S. Nonchev)

- CNRS-INSERM-Université de la Mediterranée. Campus de Luminy. Marsella. 2002 (Host: O. Pourquié)

- Instituto de Biología Molecular y Celular del Cáncer, U. de Salamanca-CSIC. 2002 (Host: I. Sánchez-Garcia).

- Instituto de Neurociencias de Alicante. 2002. (Host: Roberto Gallego)

- 2002 Masterclass. Utrecht Graduate School of Developmental Biology. Utrecht. Holland. 2002. (Host: B. Defize).

- Ciclo de conferencias "Vive la Ciencia". Bilbao. 2003. CSIC-Fundación BBVA.

- Instituto Leloir. Buenos Aires. 2003. (Host: Pablo Wappner).

- Stowers Institute for Medical Research. Kansas City. USA. 2003 (Host: Paul Trainor).

- Universidad de La Laguna. Facultades de Biológicas/Farmacia. Tenerife. 2003. (Host: Carmen Trujillo).

- Universidad Complutense. Facultad de Biología. Madrid. Noviembre 2003 (Host: Manuel Guzmán).

- King´s College. Guy´s Hospital. London. 2004 (Host: Andrew Lumsden)

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- RIKEN Institute. Centre for Developmental Biology. Kobe. Japan. 2004 (Host: Masatoshi Takeichi)

- RIKEN Institute. Centre for Immunology. Yokohama. Japan. 2004 (Host: Haruhiko Koseki)

- Centro Andaluz de Biología del Desarrollo. Sevilla. 2004 (Host: Fernando Casares)

- Instituto Cajal, CSIC. Madrid. 2004 (Host. A. Ferrús).

- Universidad de Sevilla. Facultad de Medicina. Hospital Virgen del Rocio. Sevilla. 2005 (Host: J. López-Barneo).

- Instituto de Biomedicina, CSIC. Valencia. 2005. (Host: V. Rubio).

- Stazione Zoologica Anton Dohrn: Naples. 2005 (Host: Margherita Branno).

- Centro de Investigación Príncipe Felipe. Valencia. 2005 (Host: Consuelo Guerri).

- C.N.I.O. Madrid. 2006 (Host: Marcos Malumbres).

- Fundación Marqués de Valdecilla. Santander. 2006 (Host: Fundación)

- Real Academia Nacional de Farmacia. Madrid. 2006 (Host: María Teresa Miras Portugal)

- Instituto de Neurociencias de Alicante. Alicante. 2007 (Host: Roberto Gallego)

- “Avances en Biología Molecular”. 9º Ciclo. Centro de Biología Molecular Severo Ochoa. Madrid. 2007 (Host: CBMSO)

- Cell and Developmental Biology. BIOCENTRE. Dundee, UK. 2007. (Host: Kim Dale)

- King´s College. London. 2007. (Host: European Training Research Programme).

- Universidad de Castilla la Mancha. Facultad de Medicina. Albacete. 2007 (Host: J. Juiz).

- Instituto Investigaciones Biomédicas, CSIC-UAM. Madrid. 2007 (Host: M. Manzanares).

- "Seminarios de Biología Molecular y Biotecnología". Universidad de Murcia. 2007. (Host: Departamento de Genética y Microbiología)

- Department of Cell and Molecular Biology and the University of Michigan, Ann Arbor, USA. 2007 (Host: PhD programme)

- Club Información. La semana del cerebro. Alicante. 2008. (Host: IN, CSIC-UMH and “Información” Newspaper)

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- Centro Nacional de Investigación Cardiovascular (C.N.I.C.). Madrid. 2008. (Host: M. Torres).

- Universidad de Alicante. Dpto. Fisiología, Genética y Microbiología. Alicante. 2009. (Host: J. Martin-Nieto).

- Institut de Recerca Biomedica (IRB- Parc Cientific, Barcelona). Barcelona. 2009. (Host: Cayetano González).

- Universidad de Freiburg. Biology Dept. Freiburg. 2009. (Host: Wolfgang Driever).

- Erasmus MC. University Medical Centre. Erasmus Lecture on Cell Biology and Genetics. Rotterdam. 2009 (Host: E. Dzierzak)

- Conferencias El Legado de Prometeo. Científicos Valencianos de Excelencia. CAM. Valencia. 2009

- Universidad de Valladolid. Dpto. de Fisiología. Valladolid. (Host: Javier García-Sancho).

- Conferencia inaugural de los cursos de verano de la Universidad del País Vasco. 2009. San Sebastián. (Host: UPV/EHU)

- California Institute of Technology. Division of Biology. California. 2009. (Host: Marianne Bronner-Fraser)

- Semana de la Ciencia, V Ciclo de Conferencias “Ciencia y Sociedad”. 2009. Valencia.

- IDIBELL. Barcelona. 2009. (Host: Isabel Fabregat)

- Ciclo de Conferencias Ágora para la Ciencia. Residencia de Estudiantes. Madrid. 2010. (Host: Ginés Morata)

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REFEREE OF SCIENTIFIC JOURNALS

- Am. J. Pathol.; BMC Genomics; Bioessays; Biochemical J.; Bioinformatics; Brain Research; Cancer Therapy; Cell; Cell and Tissue Research; Development; Development, Genes and Evolution; Developmental Biology; Developmental Cell; Developmental Dynamics; EMBO Reports; EMBO J.; Experimental Cell Research; European J. Endocrinology; Gene Expression Patterns; Genes & Development; Genome Biology Genomics; Int. J. Dev. Biol.; J. Cell Biol.; J. Cell Science; J. Cellular Physiology; J. Comparative Neurology; J. Histochem.Cytochem.; J. Neuroscience; J. Mol. Evol.; Mechanisms of Development; Mol. Biol. Cell; Nature; Nature Cell Biology; Nature Genetics; Nature Reviews Cancer; Nature Reviews Mol. Cell. Biol.; Nature Reviews Genetics; Nephrology; Neuron; Oncogene; PLoS Biol.; P.N.A.S.; Trends in Cell Biology.

.

REFEREE OF FUNDING AGENCIES

European Research Council. Advanced Research Grants. Experts panel LS8 2008; ERC Panel member Advanced Research Grants LS4B 2009, Experts Panels EU (Life Sciences), Vth Framework Programme, EMBO Young Investigator Programme (Y.I.P.), Long and short-term Fellowships; FEBS Long term, Short term, Collaborative and Summer Fellowships; European Science Foundation (ESF), Wellcome Trust (UK); Medical Research Council (U.K.); Israeli Science Foundation; RIKEN CDB (Japan); Scottish Health Department; Promotion of Scientific Research in Campania Grant Programme (Italy); Member of External Advisory Board C.N.R.S.Unit (France); Member of External Advisory Board INSERM Unit (France); Dutch Cancer Society (KWF Kankerbestrijding) (Netherlands); Agencia Nacional de Evaluación y Prospectiva (Spain); Fondo de Investigaciones Sanitarias (Spain); Comunidad Autónoma de Madrid (Spain).- National Science Foundation (USA); Millennium Science Initiative (Chile); The Academy of Sciences for the Developing World (TWAS).

MAIN HONOURS

- Prize Carmen and Severo Ochoa Foundation 2004. Molecular Biology Research.
- Prize Francisco Cobos Foundation 2005. Biomedical Research
- Prize Alberto Sols 2006. Best research career.
- Conference L'Oreal-UNESCO. SEBBM Meeting. 2008.
- Prize Rey Jaime I 2009. Basic Research

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