

Antonello Mallamaci's CV

GENERAL DATA

Personal data

born in Naples, Italy, on June 14th, 1961
Italian citizen

Training

1985, Diploma in Piano at Conservatorio di Musica S. Pietro a Majella in Naples, Italy;
1990, Degree in Biological Sciences at University of Naples Federico II, Italy, with honors
1995, EMBO Course on "Mouse and Chick Development" (Max-Planck-Institut für
biophysikalische Chemie, Goettingen, Germania);
1996, CSHL Course on "Mouse Development" (CSHL, Cold Spring Harbor, USA)

Present professional address

Cerebral Cortex Development Laboratory
Neuroscience Area
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RESEARCH ACTIVITY

Period: 1991-1992

Institution: Institute of Genetics and Biophysics - National Research Council (IGB-CNR) - Naples, Italy.

Position: AIRC Fellow

Scientific interests: Methylation of Hox loci in teratocarcinoma cell lines

Period: 1993

Institution: National Institute for Medical Research - Medical Research Council, London, UK

Position: EMBO Fellow

Scientific interests: The homeogene Otx2 in embryonic central nervous system patterning

Period: 1993-1997

Institution: Department of Biological and Tecnological Research - Scientific Institute H San Raffaele, Milan, Italy

Position: EU/CNR Fellow

Scientific interests: The homeogenes Otx2, Six and Emx1 in embryonic brain patterning

Period: 1997

Institution: GSF - Forschungszentrum für Umwelt und Gesundheit, Munich, Germania

Position: EMBO Fellow

Scientific interests: The homeogenes Otx2 and Emx2 in telencephalon and cerebral cortex development

Period: 1997-2001

Institution: Department of Biological and Tecnological Research - Scientific Institute H San Raffaele, Milan, Italy

Position: Researcher (permanent *Position*)

Scientific interests: The homeogenes Emx2 and Pax6 in telencephalon and cerebral cortex development

Period: 2002-2006

Institution: Department of Biological and Tecnological Research - Scientific Institute H San Raffaele, Milan, Italy

Position: Head of Laboratory ad interim and, starting from August 1st, 2003, Head of Unit

Scientific interests: Gene networks mastering cell cycle, neuronogenesis and arealization in the embryonic cerebral cortex; Modelling the Williams-Beuren syndrome

Period: 2006-2012

Institution: International School for Advanced Studies (SISSA - ISAS), Trieste, Italy

Position: Head of Unit

Scientific interests: Stimulating postnatal cortico-cerebral histogenesis by reactivation of gene networks in embryonic corticogenesis; Regulation of cortico-cerebral histogenesis via ncRNAs, natural and/or therapeutic; Tissue reprogramming

EDITORIAL ACTIVITY

Editorial consuelling for the Journals:

- Brain Research
- BMC Biology
- Cerebral Cortex
- Development
- Developmental Biology
- Developmental Dynamics
- European Journal of Neuroscience
- EMBO Journal
- Experimental Neurology
- FEBS Letters
- ISRN Stem Cells
- Journal of Comparative Neurology
- Journal of Neuroscience
- Mechanisms of Development
- Neural Development

Editorial consuelling for the Funding Agencies:

- Association for International Cancer Research
- Israel Science Foundation
- The Wellcome Trust
- IASys - India Alliance System
- FWF - Austrian Science Fund
- MRC - Medical Research Council UK

DIDACTIC ACTIVITY

Period: 1997-1999

Institution: University of Verona, Verona, Italy

Role: Appointed Professor of "Developmental Biology and Vegetal Morphogenesis"

Period: 1999-2002

Institution: University of Pavia, Pavia, Italy

Role: Appointed Professor of "Developmental Genetics: from Drosophila to Vertebrates"

Period: 2002-2003

Institution: University of Insubria, Varese, Italy

Role: Appointed Professor of "Recombinant DNA technologies"

Period: 2003-2005

Institution: University Vita-Salute San Raffaele, Milan, Italy

Role: Appointed Professor of "Animal models in Genetics"

Period: 2000-2005

Institution: Department of Biological and Technological Research -Scientific Institute H San Raffaele & University Vita-Salute San Raffaele, Milan, Italy

Role: Organizer and Teacher of Courses on "Development" for the "Open University Ph.D. Program in Cell and Molecular Biology"

Period: 2006-2012

Institution: International School for Advanced Studies (ISAS/SISSA) - Neurobiology Sector

Role: Associate Professor of "Molecular Biology", responsible of Courses: "Molecular Biology" (basic), "Cerebral Cortex Development" (advanced), "Engineering the Mammalian Genome" (advanced), for the PhD curricula of "Neuroscience-Neurobiology" and "Structural and Functional Genomics"

Period: 2007-2012

Institution: University of Trieste, Trieste, Italy

Role: Appointed Professor, responsible of Courses: "Neuroscience and CNS development", for the II level Degree in Medical Biotechnologies, 2007-2007; "Cerebral Cortex Development", for the II level Degree in Neuroscience, 2008-2009; "Neuroembriology", for the II level Degree in Neuroscience, 2009-2012.

PUBLICATIONS

1.

[Growth defects and impaired cognitive-behavioral abilities in mice with knockout for Eif4h, a gene located in the mouse homolog of the Williams-Beuren syndrome critical region.](#)

Capossela S, Muzio L, Bertolo A, Bianchi V, Dati G, Chaabane L, Godi C, Politi LS, Biffo S, D'Adamo P, Mallamaci A, Pannese M.

Am J Pathol. 2012 Mar;180(3):1121-35.

2.

[Molecular bases of cortico-cerebral regionalization.](#)

Mallamaci A.

Prog Brain Res. 2011;189:37-64.

3.

[The pro-differentiating role of miR-124: indicating the road to become a neuron.](#)

Maiorano NA, Mallamaci A.

RNA Biol. 2010 Sep-Oct;7(5):528-33.

4.

[Emx2 and Foxg1 inhibit gliogenesis and promote neuronogenesis.](#)

Brancaccio M, Pivetta C, Granzotto M, Filippis C, Mallamaci A.

Stem Cells. 2010 Jul;28(7):1206-18.

5.

[Cortico-cerebral histogenesis in the opossum Monodelphis domestica: generation of a hexalaminar neocortex in the absence of a basal proliferative compartment.](#)

Puzzolo E, Mallamaci A.
Neural Dev. 2010 Mar 19;5:8.

6.

[Regulation of Emx2 expression by antisense transcripts in murine cortico-cerebral precursors.](#)

Spigoni G, Gedressi C, Mallamaci A.
PLoS One. 2010 Jan 11;5(1):e8658.

7.

[Promotion of embryonic cortico-cerebral neuronogenesis by miR-124.](#)

Maiorano NA, Mallamaci A.
Neural Dev. 2009 Nov 2;4:40.

8.

[Gene networks controlling early cerebral cortex arealization.](#)

Mallamaci A, Stoykova A.
Eur J Neurosci. 2006 Feb;23(4):847-56.

9.

[Effects of Emx2 inactivation on the gene expression profile of neural precursors.](#)

Gangemi RM, Daga A, Muzio L, Marubbi D, Coccozza S, Perera M, Verardo S, Bordo D, Griffiero F, Capra MC, Mallamaci A, Corte G.
Eur J Neurosci. 2006 Jan;23(2):325-34.

10.

[Foxg1 confines Cajal-Retzius neuronogenesis and hippocampal morphogenesis to the dorsomedial pallium.](#)

Muzio L, Mallamaci A.
J Neurosci. 2005 Apr 27;25(17):4435-41.

11.

[A mutually stimulating loop involving emx2 and canonical wnt signalling specifically promotes expansion of occipital cortex and hippocampus.](#)

Muzio L, Soria JM, Pannese M, Piccolo S, Mallamaci A.
Cereb Cortex. 2005 Dec;15(12):2021-8.

12.

[Emx1, Emx2 and Pax6 in specification, regionalization and arealization of the cerebral cortex.](#)

Muzio L, Mallamaci A.
Cereb Cortex. 2003 Jun;13(6):641-7.

13.

[Role of Emx2 in the development of the reciprocal connectivity between cortex and thalamus.](#)

López-Bendito G, Chan CH, Mallamaci A, Parnavelas J, Molnár Z.
J Comp Neurol. 2002 Sep 16;451(2):153-69.

14.

[Conversion of cerebral cortex into basal ganglia in Emx2\(-/-\) Pax6\(Sey/Sey\) double-mutant mice.](#)

Muzio L, DiBenedetto B, Stoykova A, Boncinelli E, Gruss P, Mallamaci A.
Nat Neurosci. 2002 Aug;5(8):737-45.

15.

[Emx2 regulates the proliferation of stem cells of the adult mammalian central nervous system.](#)

Galli R, Fiocco R, De Filippis L, Muzio L, Gritti A, Mercurio S, Broccoli V, Pellegrini M, Mallamaci A, Vescovi AL.
Development. 2002 Apr;129(7):1633-44.

16.

[Emx2 and Pax6 control regionalization of the pre-neuronogenic cortical primordium.](#)

Muzio L, Di Benedetto B, Stoykova A, Boncinelli E, Gruss P, Mallamaci A.
Cereb Cortex. 2002 Feb;12(2):129-39. Erratum in: Cereb Cortex. 2012 Jan;22(1):243.

17.

[Otx and Emx homeobox genes in brain development.](#)

Cecchi C, Mallamaci A, Boncinelli E.
Int J Dev Biol. 2000;44(6):663-8.

18.

[Genetic control of regional identity in the developing vertebrate forebrain.](#)

Boncinelli E, Mallamaci A, Muzio L.
Novartis Found Symp. 2000;228:53-61; discussion 61-6, 109-13. Review.

19.

[Area identity shifts in the early cerebral cortex of Emx2-/- mutant mice.](#)

Mallamaci A, Muzio L, Chan CH, Parnavelas J, Boncinelli E.
Nat Neurosci. 2000 Jul;3(7):679-86.

20.

[The lack of Emx2 causes impairment of Reelin signaling and defects of neuronal migration in the developing cerebral cortex.](#)

Mallamaci A, Mercurio S, Muzio L, Cecchi C, Pardini CL, Gruss P, Boncinelli E.
J Neurosci. 2000 Feb 1;20(3):1109-18.

21.

[Mouse forebrain development. The role of Emx2 homeobox gene.](#)

Cecchi C, Mallamaci A, Boncinelli E.
C R Acad Sci III. 1999 Oct;322(10):837-42.

22.

[EMX2 protein in the developing mouse brain and olfactory area.](#)

Mallamaci A, Iannone R, Briata P, Pintonello L, Mercurio S, Boncinelli E, Corte G.
Mech Dev. 1998 Oct;77(2):165-72.

23.

[Body plan genes and human malformation.](#)

Boncinelli E, Mallamaci A, Broccoli V.
Adv Genet. 1998;38:1-29.

24.

[Expression pattern of cSix3, a member of the Six/sine oculis family of transcription factors.](#)

Bovolenta P, Mallamaci A, Puelles L, Boncinelli E.
Mech Dev. 1998 Jan;70(1-2):201-3.

25.

[Implication of OTX2 in pigment epithelium determination and neural retina differentiation.](#)

Bovolenta P, Mallamaci A, Briata P, Corte G, Boncinelli E.
J Neurosci. 1997 Jun 1;17(11):4243-52.

26.

[OTX2 homeoprotein in the developing central nervous system and migratory cells of the olfactory area.](#)

Mallamaci A, Di Blas E, Briata P, Boncinelli E, Corte G.
Mech Dev. 1996 Aug;58(1-2):165-78.

27.

[EMX1 homeoprotein is expressed in cell nuclei of the developing cerebral cortex and in the axons of the olfactory sensory neurons.](#)

Briata P, Di Blas E, Gulisano M, Mallamaci A, Iannone R, Boncinelli E, Corte G.
Mech Dev. 1996 Jul;57(2):169-80.

28.

[Cloning and characterisation of two chick homeobox genes, members of the six/sine oculis family, expressed during eye development.](#)

Bovolenta P, Mallamaci A, Boncinelli E.

Int J Dev Biol. 1996;Suppl 1:73S-74S.

29.

[Homeobox genes in vertebrate gastrulation.](#)

Boncinelli E, Mallamaci A.

Curr Opin Genet Dev. 1995 Oct;5(5):619-27.

30.

[Cloning and characterization of two members of the vertebrate Dlx gene family.](#)

Simeone A, Acampora D, Pannese M, D'Esposito M, Stornaiuolo A, Gulisano M, Mallamaci A, Kastury K, Druck T, Huebner K, et al.

Proc Natl Acad Sci U S A. 1994 Mar 15;91(6):2250-4.

31.

[Vertebrate homeobox genes.](#)

Boncinelli E, Mallamaci A, Lavorgna G.

Genetica. 1994;94(2-3):127-40.

32.

[A vertebrate gene related to orthodenticle contains a homeodomain of the bicoid class and demarcates anterior neuroectoderm in the gastrulating mouse embryo.](#)

Simeone A, Acampora D, Mallamaci A, Stornaiuolo A, D'Apice MR, Nigro V, Boncinelli E.

EMBO J. 1993 Jul;12(7):2735-47.

33.

[Isolation and mapping of EVX1, a human homeobox gene homologous to even-skipped, localized at the 5' end of HOX1 locus on chromosome 7.](#)

Faiella A, D'Esposito M, Rambaldi M, Acampora D, Balsafiore S, Stornaiuolo A, Mallamaci A, Migliaccio E, Gulisano M, Simeone A.

Nucleic Acids Res. 1991 Dec 11;19(23):6541-5.