

CURRICULUM VITAE AMADEO ALIDA

- **In 1987** Laurea cum laude in Biology, University of Milan.
- **In 1988** annual training in Physiopathology, University of Milan. Qualification as professional biologist.
- **In 1989** and **1991** trainings on “Cryomethods in immunocytochemistry”, Seefeld (Austria) and on ESI/EELS techniques at the Electron Microscopy Laboratory, University of Ulm (Germany).
- **From 1989 to 1991** Research Fellowships at the Neurological Institute “C.Besta” of Milan in the Laboratory of Experimental Neurophysiology. Research activities were mainly focused on neuroanatomical studies using rat brain as experimental model. The cholinergic, GABAergic glutamatergic systems have been analyzed by combining axonal transport and immunocytochemistry. These studies were integrated with the immunocytochemical ultrastructural localization of neurotransmitter receptors .
- **From 1992 –present** Assistant Professor in Human Anatomy at the University of Milan.
- Since 1992 research activity has been focused on the developmental mechanisms necessary for arrangement of nervous structures and of differentiated synaptic circuitry. In particular the expression of developmental factors, such as the inhibitory transmitter GABA, some extracellular matrix components, the neuronal adhesion molecule PSA-NCAM, glial markers and neuronal intermediate filaments, was investigated.
- **Since 1995** supervisor of several theses for bachelor’s degree in ‘Biological Sciences’ and master’s degree in ‘Biodiversity and Biological Evolution’ and ‘Applied Biomedical Biology’.
- **1999-2007**: temporary teacher (Human Anatomy) at the University of Milan-Bicocca.
- **2004-present**: temporary teacher of “Functional human biology” of the second level degree course “Biodiversity and Biological Evolution” at the University of Milan.
- Committee Member of PhD examinations at EMBL in 2008 (Monterotondo, Rome) and at the University of Milano-Bicocca in 2008 and 2014 (DIMET- Translational and Molecular Medicine).
- Referee for "International Journal of Developmental Biology", "Brain Research Bulletin" and "Neurological Sciences".
- **Since 2014** board member of the PhD course in Environmental Sciences of the University of Milan.
- Collaborations: with IFOM (Milan) on EPS8, a protein involved in the remodelling of actin filaments, with the Neurological Institute “C.Besta” of Milan on the expression of SNAP-25 in different areas of rat and human central nervous systems, with the University of Milan-Bicocca on the neurochemical characterization of cultured cortical neurons and glia that are used for electrophysiological and pharmacological studies of neuronal networks . A recent and ongoing collaboration is aimed at characterizing morphologically the parkin knock out mice. *Parkin* is the most common causative gene of juvenile and early-onset familial Parkinson's disease.

RECENT RESEARCH

Since 2004 studies focused again on the central cholinergic system collaborating with the Laboratory of Electrophysiology of the University of Milan-Bicocca. Aim of the project is the characterization by means of different approaches (morphological, electrophysiological and molecular) of the nicotinic receptor, which shows several mutations associated to an autosomal dominant form of frontal lobe nocturnal epilepsy. For this project an Italian grant (PRIN 2005 - prot. 2005053838_002) and a TELETHON grant (2012- GGP12147) were achieved. Aim of this current project is to define the pathogenetic process in the transgenic mice and exploit such knowledge to suggest novel prophylactic approaches.

Recent publications

- Offenhäuser N, Castelletti D, Mapelli L, Soppo BE, Regondi MC, Rossi P, D’Angelo E, Frassoni C, Amadeo A, Tocchetti A, Pozzi B, Disanza A, Guarnieri D, Betsholtz C, Scita G, Heberlein U, Di Fiore PP. Increased ethanol resistance and consumption in Eps8 knockout mice correlates with altered actin dynamics . Cell, 127(1): 213-226, 2006.
- Mazzetti S, Ortino B, Inverardi F, Frassoni C, Amadeo A. PSA-NCAM in the developing and mature thalamus. Brain Res Bull. 71(6): 578-586, 2007.

- Inverardi F, Sana Beolchi M, Ortino B, Moroni RF, Regondi MC, Amadeo A, Frassoni C. GABA immunoreactivity in the developing rat thalamus and Otx2 homeoprotein expression in migrating neurons. *Brain Res Bull.* 73:64-74, 2007.
- Garbelli R, Inverardi F, Medici M, Amadeo A, Verderio C, Matteoli M, Frassoni C. Heterogeneous expression of SNAP-25 in rat and human brain. *J Comp Neurol.* 506(3): 373-386, 2008.
- Consonni S, Leone S, Becchetti A, Amadeo A. Developmental and neurochemical features of cholinergic neurons in the murine cerebral cortex. *BMC Neurosci* 10:18,2009.
- Aracri P, Consonni S, Morini R, Perrella M, Rodighiero S, Amadeo A, Becchetti A. Tonic modulation of GABA release by nicotinic acetylcholine receptors, in layer V of the murine prefrontal cortex. *Cereb Cortex* 20:1539-55, 2010.
- Gullo F, Mazzetti S, Maffezzoli A, Dossi E, Lecchi M, Amadeo A, Krajewski J, Wanke E. Orchestration of “presto” and “largo” synchrony in up-down activity of cortical networks. *Frontiers in Neural Circuits*, 4:11, 2010.
- Aracri P, Amadeo A, Pasini ME, Fascio U, Becchetti A. Regulation of glutamate release by heteromeric nicotinic receptors in layer V of the secondary motor region (Fr2) in the dorsomedial shoulder of prefrontal cortex in mouse. *Synapse*, 67(6):338-57, 2013.
- Paiardi C, Pasini M.E., Amadeo A., Gioria M., Berruti G. The ESCRT-deubiquitinating enzyme USP8 in the cervical spinal cord of wild-type and Vps54-recessive (wobbler) mutant mice. *Histochem Cell Biol*, 2013.
- Aracri P, Banfi D, Pasini ME, Amadeo A, Becchetti A. Hypocretin (Orexin) Regulates Glutamate Input to Fast-Spiking Interneurons in Layer V of the Fr2 Region of the Murine Prefrontal Cortex. *Cereb. Cortex*, 2013