

## PERSONAL INFORMATION

**ALIDA AMADEO****ASSISTANT PROFESSOR - DEPARTMENT OF BIOSCIENCES - UNIVERSITY OF MILAN (ITALY)**

## WORK EXPERIENCE

## FROM 1992 TO PRESENT

**Assistant Professor in Human Anatomy at the University of Milan.**

Dept. of Biosciences - University of Milan - via Celoria 26 - 20133 Milano, Italy

[www.bioscienze.bio](http://www.bioscienze.bio)Research activities:

- Morphological analysis of the central cholinergic system. Aim of the project is the characterization by means of different approaches (morphological, but also electrophysiological and molecular) of the nicotinic receptor, which shows several mutations associated to an autosomal dominant form of frontal lobe nocturnal epilepsy. To better understand the role of nicotinic receptors during epileptogenesis, Manfredi et al. (2009) developed a murine model that conditionally expresses the  $\beta 2$ -V287L mutated subunit under control of the tetracycline promoter (TET-off system). Untreated mice display a spontaneous epileptic phenotype. Interestingly, silencing  $\beta 2$ -V287L in adult mice cannot revert the epileptic phenotype. Conversely, mutant mice treated with doxycycline from E1 to P15 are identical to wild-type mice. Hence, the mutant subunit needs to be expressed during sensitive phases of brain development for seizures to develop, suggesting that critical stages of synaptic stabilization are implicated in the pathogenesis of ADNLE. Aim of this current project is to define the pathogenetic process in the transgenic mice and exploit such knowledge to suggest novel prophylactic approaches.
- Other research collaborations are aimed at investigating the expression of tubulins and alpha-synuclein in the substantia nigra pars compacta and striatum of wild -type and parkin knock out mice.

Teaching activities:

- temporary teacher of 'Human Anatomy' of the bachelor degree course 'Biological Sciences' (2018-present);
- temporary teacher of "Human Anatomy and Neuroanatomy" of the master degree course "Biology applied to Research in Biomedicine" (2015-present),
- temporary teacher of 'Neuroanatomy' of the practical lab for the bachelor degree course 'Biological Sciences' (2014-present);
- temporary teacher of "Functional human biology" of the master degree course "Biodiversity and Biological Evolution" at the University of Milan (2004-2015).

## FROM 1999-2007

Temporary teacher (Human Anatomy) at the University of Milano-Bicocca.

## FROM 1989 -1991

Research Fellowships at the Neurological Institute "C.Besta" of Milan in the Laboratory of Experimental Neurophysiology, supervisor Prof.Spreafico. Research activities were mainly focused on neuroanatomical studies using rat brain as experimental model.

## FROM 1987-1988

Scientific consultant in the Acarology Lab at LOFARMA S.p.A. ITALY, Viale Cassala 40, 20143 Milano

EDUCATION AND TRAINING

- 2017 Training course on Correlative Microscopy (Rome)
- 2015 Training course on Animal Testing (Milan)
- 2014 International Stereology Course (Turin)
- 2007 and 2008 Training course on Confocal Microscopy
- 1991 Training on ESI/EELS techniques at the Electron Microscopy Laboratory, supervisor Prof. Martin, University of Ulm (Germany).
- 1989 Training course on “Cryomethods in immunocytochemistry”, Seefeld (Austria).
- 1988 Annual training in Physiopathology, Dep. of Physiology and Biochemistry, University of Milan.
- 1987 Laurea cum laude in Biology, University of Milan.

PERSONAL SKILLS

Mother tongue(s) ITALIAN

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C1 level	C1 level	C1 level	C1 level	C1 level
SPANISH	A1 level	A1 level	-	-	-

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through experience from teaching

Organisational / managerial skills ▪ leadership (currently responsible of a small lab composed by master and PhD students)

Job-related skills ▪ good practical skills on preparation of biological samples for electron microscopy and histology;  
 ▪ good skills in neuroanatomical microscopical and ultrastructural analysis of rodent brain sections;  
 ▪ light, confocal and electron microscopy;  
 ▪ image analysis.

## Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Basic user	Basic user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained through the preparation of figures with microphotographs for scientific articles

## ADDITIONAL INFORMATION

## Publications

Recent publications

- **ARACRI P, AMADEO A, PASINI ME, FASCIO U, BECCHETTI A. (2013).** 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*, vol. 67, p. 338-357, ISSN: 0887-4476, doi: 10.1002/syn.21655. **I.F. 2,428**
- **GULLO F, AMADEO A, DONVITO G, LECCHI M, COSTA B, CONSTANTINI A, WANKE E. (2014).** Atypical “seizure-like” activity in cortical reverberating networks in vitro can be caused by LPS-induced inflammation: a multi-electrode array study from a hundred neurons. *FRONTIERS IN CELLULAR NEUROSCIENCE*, vol. 8, p. 1-18, ISSN: 1662-5102, doi: 10.3389/fncel.2014.00361. **I.F. 4,289**
- **PAIARDI C, PASINI ME, AMADEO A, GIORIA M, BERRUTI G. (2014).** The ESCRT-deubiquitinating enzyme USP8 in the cervical spinal cord of wild-type and Vps54-recessive (wobbler) mutant mice. *HISTOCHEMISTRY AND CELL BIOLOGY*, vol. 141, p. 57-73, ISSN: 0948-6143, doi: 10.1007/s00418-013-1096-7. **I.F. 3,054**
- **ARACRI P, BANFI D, PASINI ME, AMADEO A, BECCHETTI A. (2015).** Hypocretin (Orexin) Regulates Glutamate Input to Fast-Spiking Interneurons in Layer V of the Fr2 Region of the Murine Prefrontal Cortex. *CEREBRAL CORTEX*, vol. 25, p. 1330-1347, ISSN: 1047-3211, doi: 10.1093/cercor/bht326. **I.F. 8,665**
- **BECCHETTI A, ARACRI P, MENEGHINI S, BRUSCO S, AMADEO A (2015).** The role of nicotinic acetylcholine receptors in autosomal dominant nocturnal frontal lobe epilepsy. *FRONTIERS IN PHYSIOLOGY*, vol. 6, p. 1-12, ISSN: 1664-042X, doi: 10.3389/fphys.2015.00022. **I.F. 3,534**
- **BECCHETTI A, AMADEO A. (2016).** Why we forget our dreams: acetylcholine and norepinephrine in wakefulness and REM sleep. *BEHAVIORAL AND BRAIN SCIENCES*, vol. 39, p. 20-21, ISSN: 0140-525X, doi: 10.1017/S0140525X15001739. **I.F. 14,2**
- **ARACRI P, MENEGHINI S, COATTI A, AMADEO A, BECCHETTI A. (2017).**  $\alpha 4\beta 2^*$  Nicotinic Receptors Stimulate Gaba Release onto Fast-Spiking Cells in Layer V of Mouse Prefrontal (Fr2) Cortex. *NEUROSCIENCE*, vol. 340, p. 48-61, ISSN: 0306-4522, doi: 10.1016/j.neuroscience.2016.10.045. **I.F. 3,277**
- **CARTELLI D., AMADEO A., CALOGERO A.M., CASAGRANDE F.V.M., DE GREGORIO C., GIORIA M., KUZUMAKI N., COSTA I., SASSONE J., CIAMMOLLA A., HATTORI N., OKANO H., GOLDWURM S., ROYBON L., PEZZOLI G., CAPPELLETTI G. (2018)** Parkin absence accelerates microtubule aging in dopaminergic neurons. *NEUROBIOLOGY OF AGING*, Vol. 61, p. 66-74, ISSN: 0197-4580, doi: [10.1016/j.neurobiolaging.2017.09.010](https://doi.org/10.1016/j.neurobiolaging.2017.09.010). **I.F. 5,117**.
- **AMADEO A, COATTI A, ARACRI P, ASCAGNI M, IANNANTUONI D, MODENA D, CARRARESI L, BRUSCO S, MENEGHINI S, ARCANGELI A, PASINI ME, BECCHETTI A. (2018)** Postnatal Changes In K<sup>+</sup>/Cl<sup>-</sup> Cotransporter-2 Expression In The Forebrain Of Mice Bearing A Mutant Nicotinic Subunit Linked To Sleep-Related Epilepsy. *NEUROSCIENCE*, Vol. 386, p. 91-107. ISSN: 0306-4522, doi:10.1016/j.neuroscience.2018.06.030. **I.F. 3,382**.
- **MORONI RF, DELEO F, REGONDI MC, MADASCHI L, AMADEO A, FRASSONI C. (2018)** Proliferative cells in the rat developing neocortical grey matter: new insights into gliogenesis. *BRAIN STRUCTURE AND FUNCTION*. Vol. 223 (9), p. 4053-4066. ISSN: 1863-2653, doi:10.1007/s00429-018-1736-8. **I.F. 4, 231**.

## Memberships

- member of the Gruppo Italiano per lo Studio della Neuromorfologia (GISN)
- member of the Research Strategic Group NEURO-NEST (UNIMI)
- member of the Center of Excellence for Neurodegenerative Diseases (CEND)
- member of the Italian Society of Istology and Anatomy (SIAI)

## Personal information

I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03 and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

I authorize, according to D.lgs 14/03/2013 n. 33 concerning transparency, in case of conferment of the position and of the fellowship, the publication of this curriculum in the web site of Università degli Studi di Milano in the section "Amministrazione trasparente", "Consulenti e collaboratori".

Date 30/01/2019

Signature

Alida Amadeo

