

CURRICULUM VITAE – DR. CSABA ADORI

Higher education

Eötvös Loránd University of Sciences, Faculty of Natural Sciences, Budapest, Hungary; Biology; 1995-2000.

Eötvös Loránd University of Sciences, Faculty of Natural Sciences, Budapest, Hungary; Biology PhD Program; 2000-2003.

Qualification

Biologist; specification: cell-, development- and neurobiology; 2000.

PhD-degree: Cell Biology, 2008. Dissertation: Localization of the components of ubiquitin-proteasome-system on control and neurodegenerative neuronal tissue

Places of work

(i) Eötvös Loránd University of Sciences, Faculty of Natural Sciences, Department of Anatomy, Laboratory of Neurodegeneration (Head of laboratory: Dr. Lajos László); 2000-2003 (PhD-student)

(ii) Hunfalvy János Economic Secondary School, Budapest, Hungary; 2001-2003. (Teacher of biology)

(iii) National Institute of Neurology and Psychiatry, Laboratory of Neurochemistry and Neuropsychopharmacology (Head of Laboratory: Prof. Dr. György Bagdy) Collaboration with Laboratory of Neuropathology (Head of laboratory: Dr. Gábor G. Kovács) (2004-2007).

(iv) Semmelweis University, Institute of Pharmacodynamics/Pharmacotherapy; (Head of Laboratory: Prof. Dr. György Bagdy) (2007-2010); Collaboration with Institute of Anatomy, Histology and Embryology, Laboratory of Neuromorphology and Neuroendocrinology (Head of Laboratory: Prof. Dr. Miklós Palkovits) (2008-2010).

(v) Karolinska Institutet Department of Neuroscience (from 2010).

Teaching activity

(i) Preparatory courses for university (biology), Eötvös Loránd University of Sciences; 1995-2002).

(ii) Courses on Comparative Anatomy (Eötvös Loránd University of Sciences, Department of Anatomy); (2000-2003).

(iii) Biology for secondary school students (Hunfalvy János Economic Secondary School, Budapest, Hungary); (2001-2003).

Major research topics

(i) Role of heat shock proteins and the ubiquitin-proteasome-system in neurodegeneration (Eötvös Loránd University of Sciences, Department of Anatomy, 2000-2004)

(ii) Morphological examination of neurotoxicity caused by MDMA (ecstasy) and exploring the regenerative processes of monoaminergic fibers (2003-2010)

(iii) Role of MCH/orexin-system in the regulation of sleep (2008-2010)

(iv) Role of autoantibodies in the etiopathology of narcolepsy (2011-2014)

(v) Studies on the neuropeptide S systems in the human pons and in the rat brain (2010-2015)

(vi) Studies on the role of somatostatin receptor 2 in the maintenance of monoamine systems – with implications to Alzheimer's disease (2011-2015)

(vii) Volume imaging studies on the hepatic sympathetic (noradrenergic) nerves in nonalcoholic fatty liver disease (2017-2021)

(viii) Exploring the human connectome in Alzheimer's-type dementia with the new 3D immuno-imaging technology iDISCO, with special attention to the noradrenergic locus coeruleus (from 2016)

Methods known

- (i) Routinely used: light microscopy immunohistochemistry (also on paraffin embedded tissue; double labelings, confocal microscopy), morphometry techniques; Western-blotting; in situ apoptosis detection (TUNEL); ELISA, in situ hybridization with radiolabelled oligo/riboprobes, iDISCO+ volume immuno-imaging and light sheet microscopy with Imaris image analysis
- (ii) Known techniques but not routinely used:; real time PCR; pre- and postembedding electron microscopy, laser capture microdissection

Awards

- (i) National Scientific Conference for University Students: first prize in Anatomy section (2000)
- (ii) Eötvös Loránd University of Sciences, Faculty of Natural Sciences: „Excellent Student of the Faculty” (2001).
- (iii) IX. Conference on Cell- and Developmental Biology, Hungary, Debrecen: 'Best Poster' (2001).
- (iv) ECNP Workshop on Neuropsychopharmacology for Young Scientists in Europe, Nice, France: 'Best poster' award in preclinical session (2012).

Postgraduate courses and exchange programs

- (i) Workshop on Stereology, University of Aarhus, Denmark, September, 2005. (Organized by BRAIN-NET Europe)
- (ii) Workshop on Laser Capture Microdissection (LCM), Centre de Pathologie et de Neuropathologie Est Hospices Civils de Lyon, Lyon, France, March, 2007 (organized by BRAIN-NET Europe)
- (iii) Course in laboratory animal science, Karolinska Institutet, September, 2010.
- (iv) Nicholson Exchange Program between the Rockefeller University and the Karolinska Institutet - learning the iDISCO 3D immuno-imaging technique (Tessier-Lavigne lab, Rockefeller University, New York), June-July 2015.
- (v) Tissue clearing and light sheet microscopy; Institute LaVision Paris, France, March 2017.

Organized conferences

Tissue Clearing and Light Sheet Microscopy – International Workshop, 5-7 September 2017, Stockholm, Karolinska Institutet – main organizer

Memberships

- (i) European College of Neuropsychopharmacology (ECNP)
- (ii) Society for Neuroscience (SfN)
- (iii) Hungarian Society of Neuropathology