

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).

(vi) Stockholm University Department of Molecular Bioscience – the Wenner Gren Institute (from 2023).

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: immunohistochemistry (also on paraffin embedded tissue; double labeling, confocal microscopy), morphometry techniques; Western-blotting; in situ apoptosis detection (TUNEL); ELISA, in situ hybridization with radiolabeled 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).

(v) 'Publication of the Year' award – International Society of Alzheimer's Research (ISTAART) (Neuromodulatory Subcortical Systems professional research area) (2023).

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

(iv) Alzheimer's Association (ISTAART)

(v) Cell Transplant and Regenerative Medicine Society (CTRMS)