

Europass curriculum vitae

Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

E-mail(s)

Nationality

Date of birth

Gender



Dr. Berényi Antal

10 Móricz Zs str., H-2200 Monor, Hungary

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drberenyi@gmail.com

Hungarian

26th November 1981

male

Work experience

Dates

Occupation or position held

Name and address of employer

2013-

Principal Investigator, Assistant Professor

MTA-SZTE 'Momentum' Oscillatory Neural Networks Research Group, Department of Physiology, University of Szeged, Hungary

Dates

Occupation or position held

Name and address of employer

2012-

Postdoctoral Fellow

Buzsáki Lab, Neuroscience Institute, NYU Medical Center, New York, USA

Dates

Occupation or position held

Name and address of employer

2010-2012

Postdoctoral Fellow

Buzsáki Lab, Center for Molecular and Behavioral Neuroscience, Rutgers University, Newark, USA

Dates

Occupation or position held

Name and address of employer

2002-2010

Early-stage researcher; Experienced researcher and assistant lecturer since 2009

Vision research group, Department of Physiology, University of Szeged, Hungary

Education and training

Dates

Title of qualification awarded

Title of the diploma work

Name and type of organisation providing education and training

Dates

Title of qualification awarded

Title of the dissertation

Principal subjects/skills covered

Organisation and leaders providing education and training

2006 – 2009

Medical economist

R&D strategies of Hungarian small and medium size enterprises

Faculty of Economics, University of Szeged

2006 – 2009

Ph.D.

Spatial and temporal analysis of information processing in the ascending tectofugal visual system

Neurosciences; Theoretical medical sciences

Department of Physiology, University of Szeged

Dr. György Benedek MD PhD DSc; Dr. Attila Nagy MS PhD

Dates 2000 – 2006
 Title of qualification awarded M.D. (summa cum laude - excellent)
 Title of the diploma work *Processing of visual information along the pathway between the suprageniculate nucleus and the anterior ectosylvian cortex*
 Name and type of organisation providing education and training Faculty of Medicine, University of Szeged

Personal skills and competences

Mother tongue(s) Hungarian

Other language(s)
European level ()*

English
 German
 French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C1	C1
B1	B2	B1	B1	B1
A1	A1	A1	A1	A1

() Common European Framework of Reference (CEF) level*

Scientific skills and competences

19 published articles in referred, international journals, 29 conference publication
 Cumulative impact factor of the whole text articles (ISI 2010): 95.043
 Research experience on anaesthetized and behaving animal models (mice, rats, cats and awake, non-human primates)

Organisational skills and competences

Successful international collaborations with US, Japanese, Polish research groups

Technical skills and competences

Stereotaxic aiming
 Extracellular single-unit and local-field potential recording experience
 Signal processing automation, data analysis and software development experience
 Experience with analogue and digital electronics development
 Optogenetics
 Transcranial stimulation

Computer skills and competences

Knowledge of advanced programming techniques in MATLAB, C++, Delphi, Visual Basic and Assembler languages

Visiting scholarships

Ruhr University, Bochum, Germany (1st-31st October 2006)
 Nencki Institute of Experimental Biology, Warsaw, Poland (2007, 2008)
 4th ISS on Emerging Technologies in Biomedicine, Patras, Greece (June 2008)
 Niigata University, Niigata, Japan (07th-22nd December 2008)

Scholarships and Grants

EU FP7 ERC Starting Grant (2013-2018; 1.85 mUSD)
 'Momentum' Grant of the Hungarian Academy of Sciences (2013-2018; 1.15 mUSD)
 Marie Curie International Outgoing Fellowship (2010-2012; 310 kUSD)
 Rosztóczy Fellowship (2010; 30 kUSD)
 Scholarship of the Hungary Republic (2003-2004, 2004-2005)

1. **Berényi A**, Benedek G, Nagy A (2007) Double sliding-window technique: a new method to calculate the neuronal response onset latency Brain Res. 1178:141-8
2. **Berényi A**, Gombkötő P, Farkas A, Paróczy Z, Márkus Z, Averkin R, Benedek G, Nagy A. (2009) How moving visual stimuli modulate the activity of the substantia nigra pars reticulata. Neuroscience. 163: 1316-1326.
3. Madisen L, Mao T, Koch H, Zhuo Jm, **Berényi A**, Fujisawa S, Hsu Yw, Garcia Aj 3rd, Gu X, Zanella S, Kidney J, Gu H, Mao Y, Hooks Bm, Boyden Es, Buzsáki G, Ramirez Jm, Jones Ar, Svoboda K, Han X, Turner Ee, Zeng H. A (2012) Toolbox of Cre-dependent optogenetic transgenic mice for light-induced activation and silencing. Nat Neurosci 15:793-802.
4. **Berényi A**, Belluscio M, Mao D, Buzsaki G. (2012) Closed-loop control of epilepsy by transcranial electrical stimulation. Science 337:735-737.
5. Patel J, Fujisawa S, **Berényi A**, Royer S, Buzsáki G. (2012) Traveling theta waves along the entire septotemporal axis of the hippocampus. Neuron 75:410-417.