

Dr. Vladan Ranković

GENERAL INFORMATION

Date of birth: 05.07.1975

Gender: male

Address of institution: Institute for Auditory Neuroscience & InnerEarLab
University Medical Center Göttingen
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Current position: Group Leader, Restorative Cochlear Genomics group, Institute for Auditory Neuroscience, University Medical Center Göttingen and Auditory Neuroscience and Optogenetics Laboratory, German Primate Center

ACADEMIC EDUCATION

2005 – 2009 Postgraduate studies in Biology/Neurobiology
Otto-von-Guericke University Magdeburg, Germany

1995 – 2004 Diploma studies in Biology (Neurobiology), Faculty of Biology,
University of Belgrade, Serbia

SCIENTIFIC DEGREES

2009 Dr. rer. nat (Prof. Thomas Budde) in Biology/Neurobiology, Otto-von-Guericke University Magdeburg, Germany

2004 Diploma degree in Biology (Neurobiology), Faculty of Biology,
University of Belgrade, Serbia

PROFESSIONAL CAREER AFTER COMPLETING DEGREE

Since 2017 Group Leader, Institute for Auditory Neuroscience, University Medical Center Göttingen and Auditory Neuroscience and Optogenetics Laboratory, German Primate Center

2015 - 2017 Postdoctoral Fellow, Institute for Auditory Neuroscience & InnerEarLab, University Medical Center Göttingen (Prof. Dr. Tobias Moser)

2014 – 2015 Senior Scientist at TiHo, Department of Pharmacology, Toxicology and Pharmacy, Hannover, Germany, (Prof. Dr. Wolfgang Löscher)

2013 –2013 Postdoctoral Fellow at German Center for Neurodegenerative Diseases (DZNE), Magdeburg, Germany, (Prof. Dr. Alexander Dityatev)

- 2010 –2013 Postdoctoral Fellow at Leibniz Institute for Neurobiology, Magdeburg, Germany, Group of Neuroplasticity (PD Dr. Michael Kreutz)
- 2009 –2010 Postdoctoral Fellow at Institute of Pharmacology and Toxicology, Magdeburg, Germany, group of Molecular Neuropharmacology (Prof. Dr. Volker Höllt/PD Dr. Thomas Koch)

MISCELLANEOUS

Fellowships, Awards and Honors

- 2014 EPITARGET consortium fellowship, Targets and biomarkers for antiepileptogenesis
- 2005 DFG scholarship, GRK 1167 “Cell-cell communication in immune and nervous system”

Further Scientific Activities (selected)

- Since 2015 Member of American Society of Gene & Cell Therapy: ASGCT
- Since 2015 European Society of Gene and Cell Therapy (ESGCT)

SELECTED PUBLICATIONS (*with scientific assurance*)

- 1) Dieter A, Duque-Afonso CJ, **Rankovic V**, Jeschke M, Moser T “Near physiological spectral selectivity of cochlear optogenetics”. **Nat Commun**. 2019 April 10(1):1962, doi: 10.1038/s41467-019-09980-7
- 2) Keppeler D, Martins Merino R, Lopez de la Morena D, Bali B, Huet A T, Gehrt A, Wrobel C, Subramanian S, Dombrowski T, Wolf F, **Rankovic V**, Neef A, Moser T. “Ultrafast optogenetic stimulation of the auditory pathway by targeting-optimized Chronos”. **EMBO Journal**, 05 Oct 2018, doi: 10.15252/embj.201899649
- 3) Dombrowski T, **Rankovic V**, Moser T. “Toward the optical cochlear implant”. **Cold Spring Harbor Laboratory Press**, October 15th, 2018, a033225 doi: 10.1101/cshperspect.a033225
- 4) Mager-T, Lopez de la Morena D, Senn V, Schlotte J, D Errico A, Feldbauer K, Wrobel C, Jung S, Bodensiek K, **Rankovic V**, Browne L, Huet A, Jüttner J, Wood PG, Letzkus JJ, Moser T, Bamberg E. “High frequency neural spiking and auditory signaling by ultrafast red-shifted optogenetics”. **Nat Commun**. 2018 May 1;9(1):1750. doi: 10.1038/s41467-018-04146-3.
- 5) Schidlitzki A, Twele F, Klee R, Walzl I, Römermann K, Bröer S, Meller S, Gerhauser I, **Rankovic V**, Li D, Brandt C, Bankstahl M, Töllner K, Löscher W. “A combination of NMDA and AMPA receptor antagonists retards granule cell dispersion and epileptogenesis in a model of acquired epilepsy”. **Sci Rep**. 2017 Sep 22;7(1):12191. doi: 10.1038/s41598-017-12368-6.

- 6) Jannetti L, Grabrucker S, Eckert M, Gaub S, Chhabra R, Pfaender S, Mangus K, Reddy PP, **Rankovic V**, Kreutz MR, Ehret G, Boecker TM and Grabrucker AM. "Zinc deficiency dysregulates the synaptic ProSAP/Shank scaffold and might contribute to autism spectrum disorders". **Brain**. 2014 Jan;137(Pt 1):137-52. doi: 10.1093/brain/awt303. Epub 2013 Nov 25.
- 7) Karpova A, Mikhaylova M, Bera S, Bär J, Parameshwar Reddy PP, Behnisch T, **Rankovic V**, Spilker C, Bethge P, Sahin J, Kaushik R, Zuschratter W, Kaehne T, Naumann M, Gundelfinger ED, Kreutz MR. "Encoding and Transducing the Synaptic or Extrasynaptic Origin of NMDA Receptor Signals to the Nucleus". **Cell**. 2013 Feb 28;152(5):1119-33. doi: 10.1016/j.cell.2013.02.002.
- 8) **Rankovic V**, Landgraf P, Kanyshkova T, Ehling P, Meuth SG, Kreutz MR, Budde T, Munsch T. "Modulation of calcium dependent inactivation of L-type Ca²⁺ channels via β adrenergic signaling cascade in thalamocortical relay neurons". **PlosOne**. 2011, doi.org/10.1371/journal.pone.0027474