

Dr. RADHIKA PUTTAGUNTA

Date of birth: 07 March, 1976
Gender: Female
Address: Spinal Cord Injury Center
University Hospital Heidelberg
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Position: Group Leader of the Laboratory of Neuroregeneration
Children: Two (* 2009, * 2013)
Maternity leave: 2010 - 2011, 2013



CURRICULUM VITAE

University education

1999 - 2002 M.S. in Genetics, Department of Genetics and Medical Genetics, University of Wisconsin-Madison, USA
1997 - 1998 M.S. in Biology, Department of Biology, University of Michigan-Ann Arbor, USA
1994 - 1998 B.S. in Cellular Molecular Biology, Department of Biology, University of Michigan-Ann Arbor, USA

Scientific degrees

2006 Doctoral dissertation in Genetics, Mentor: Prof. Tomas Prolla, Dept. of Medical Genetics, University of Wisconsin, Madison, Wisconsin, USA

Professional experience

Since 2016 Group leader of the Laboratory for Neuroregeneration, Spinal Cord Injury Center, University Hospital Heidelberg, Germany
Since 2016 Faculty of the Hartmut Hoffmann-Berling International Graduate School of Molecular and Cellular Biology, Ruprecht-Karls University of Heidelberg, Germany
Since 2016 Faculty of Interdisciplinary Center for Neurosciences, Ruprecht-Karls University of Heidelberg, Germany
2014 - 2016 Co-principal investigator/senior postdoctoral fellow with Prof. Simone Di Giovanni, Laboratory for NeuroRegeneration and Repair, Hertie Institute for Clinical Brain Research, University of Tübingen, Germany
2014 - 2016 Faculty of Graduate School of Cellular and Molecular Neuroscience, University of Tübingen, Germany
2011 - 2013 Postdoctoral fellow with Dr. Simone Di Giovanni, Laboratory for NeuroRegeneration and Repair, Hertie Institute for Clinical Brain Research, University of Tübingen, Germany.

2007 - 2010 Postdoctoral fellow with Dr. Simone Di Giovanni, Laboratory for NeuroRegeneration and Repair, Hertie Institute for Clinical Brain Research, University of Tübingen, Germany.

Academic functions and awards:

Panels and coordinating functions:

2019 Retreat committee for the Interdisciplinary Center for Neurosciences, Ruprecht-Karls University of Heidelberg, Germany

2017 Review committee for the Heidelberg Biosciences International Graduate School (HBIGS)

2015 - 2016 Founder of the Highly Experienced Researchers (HER) group in support of women academics, University of Tübingen, Germany.

2015 Review committee for the Graduate School of Cellular and Molecular Neuroscience, University of Tübingen, Germany

Awards and honours:

2018 - 2020 Olympia Morata-Programme Habilitation Fellow, Medical Faculty of University Hospital Heidelberg

2016 Baden-Württemberg Certificate for Teaching and Learning (DGHD)

2015 Nominated for the Eric Kandel Young Neuroscientists Prize

2002 - 2003 Wisconsin Distinguished Graduate Student Fellowship; University of Wisconsin-Madison, Madison, WI

2002 Teaching Certificate from the Teaching and Learning Scholarship program, University of Wisconsin-Madison, USA

A) Publications:

Sliwinski C, Nees TA, Puttagunta R, Weidner N, Blesch A. Sensorimotor activity partially ameliorates pain and reduces nociceptive fiber density in the chronically injured spinal cord. **Journal of Neurotrauma** 2018; 35 (18):222-2238

Sandner B, Puttagunta R, Motsch M, Bradke F, Ruschel J, Blesch A, Weidner N. Systemic epothilone D improves hindlimb function after spinal cord contusion injury in rats. **Experimental Neurology** 2018;306:250-259.

Liu S, Sandner B, Schackel T, Nicholson L, Chtarto A, Tenenbaum L, Puttagunta R, Muller R, Weidner N, Blesch A. Regulated viral BDNF delivery in combination with Schwann cells promotes axonal regeneration through capillary alginate hydrogels after spinal cord injury. **Acta Biomaterialia** 2017;60:167-180.

Joshi Y*, Soria MG*, Quadrato G, Inak G, Zhou L, Hervera A, Rathore KI, Elnaggar M, Cucchiarini M, Marine JC, Puttagunta R, Di Giovanni S. The MDM4/MDM2-p53-IGF1 axis controls axonal regeneration, sprouting and functional recovery after CNS injury. **Brain** 2015;138(Pt 7):1843-1862.

Puttagunta R*, Tedeschi A*, Soria MG, Hervera A, Lindner R, Rathore KI, Gaub P, Joshi Y, Nguyen T, Schmandke A, Laskowski CJ, Boutillier AL, Bradke F, Di Giovanni S. PCAF-dependent epigenetic changes promote axonal regeneration in the central nervous system. **Nature Communications** 2014;5:3527.

Lindner R, Puttagunta R, Nguyen T, Di Giovanni S. DNA methylation temporal profiling

following peripheral versus central nervous system axotomy. **Scientific Data** 2014;1:140038.

Puttagunta R, Schmandke A, Floriddia E, Gaub P, Fomin N, Ghyselink NB, Di Giovanni S. RA-RAR-beta counteracts myelin-dependent inhibition of neurite outgrowth via Lingo-1 repression. **The Journal of Cell Biology** 2011;193(7):1147-1156.

Gaub P, Tedeschi A, Puttagunta R, Nguyen T, Schmandke A, Di Giovanni S. HDAC inhibition promotes neuronal outgrowth and counteracts growth cone collapse through CBP/p300 and P/CAF-dependent p53 acetylation. **Cell Death and Differentiation** 2010;17(9):1392-1408.

Bomar JM, Benke PJ, Slattery EL, Puttagunta R, Taylor LP, Seong E, Nystuen A, Chen W, Albin RL, Patel PD, Kittles RA, Sheffield VC, Burmeister M. Mutations in a novel gene encoding a CRAL-TRIO domain cause human Cayman ataxia and ataxia/dystonia in the jittery mouse. **Nature Genetics** 2003;35(3):264-269.

Puttagunta R, Gordon LA, Meyer GE, Kapfhamer D, Lamerdin JE, Kantheti P, Portman KM, Chung WK, Jenne DE, Olsen AS, Burmeister M. Comparative maps of human 19p13.3 and mouse chromosome 10 allow identification of sequences at evolutionary breakpoints. **Genome Research** 2000;10(9):1369-1380.

* Equally contributing authors

B) Patents:-

Scientific collaborations beyond the planned Collaborative Research Centre

Simone Di Giovanni, Imperial College London, UK

Armin Blesch, Indiana University, USA

Rainer Müller, University of Regensburg, Germany

Anne-Laurence Boutillier, University of Strasbourg, France

Frank Bradke, University of Bonn, Germany

Bernd Rolauffs, University of Freiburg, Germany

Ana Martin-Vilalba, DKFZ, University of Heidelberg, Germany

Maren Engelhardt, University of Mannheim, Germany

Hans Werner Müller, University of Dusseldorf, Germany

Bjoern Eskofier, Universitätsklinikum Erlangen, Germany

Jochen Klucken, Universitätsklinikum Erlangen, Germany