

CURRICULUM VITAE

of Prof. Dr. Gergana Dobрева



PERSONAL DETAILS

Name: Gergana Dobрева
Date/place of birth: 18.12.1977, Sofia, Bulgaria
Nationality: German, Bulgarian
Family status: Married, 3 children

WORK EXPERIENCE

Aug 2012 – W2 Professor, Goethe University, Frankfurt am Main / MPI for Heart and Lung Research, Bad Nauheim, Germany

Aug 2008 - Jul 2012 Independent Junior Group Leader (Emmy Noether programme), Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

Jan - Jul 2008 Independent Junior Group Leader (Emmy Noether programme) Klinikum rechts der Isar, Technical University, Munich

Sep 2006-Dec 2007 Postdoctoral fellow, Klinikum rechts der Isar, Technical University, Munich and German Heart Centre, Munich in the group of Prof. Karl-Ludwig Laugwitz.

Jan 2004-Mar 2006 Postdoctoral fellow, Gene Center, Ludwig Maximilian University, Munich and Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany, in the group of Prof. Rudolf Grosschedl.

Sep 2000-Jan 2004 PhD Student, Gene Center, Ludwig Maximilian University, Munich, Germany, in the group of Prof. Rudolf Grosschedl.

Jan-Jun 2000 German Cancer Research Center (DKFZ), Heidelberg, Germany – graduate work in the group of Prof. Ingrid Grummt.

1996-1999 Laboratory of Biochemistry and Molecular Genetics, Department of Chemistry and Biochemistry, Medical Academy, Sofia, Bulgaria – practical and diploma work in the group of Prof. Varban Ganев.

EDUCATION

Jan 2004 PhD thesis "Identification and functional characterization of the novel MAR-binding protein, SATB2" defended at the Department of Biochemistry, Ludwig Maximilian University, Munich with "Summa cum laude".

1994 - 1999 Biological Faculty of the University of Sofia "St. Kliment Ohridski". Specialization – Biochemistry and Genetic and cellular engineering. Degree obtained – Master of Science (MSc).

1989 - 1994 National High School for Science and Mathematics "Acad. Chakalov", lyceum of the University of Sofia "St. Kliment Ohridski".

RESEARCH FOCUS

1. Genetic and epigenetic regulation of gene expression
2. Cell and developmental biology
3. Cardiovascular biology
4. Genome stability, aging and cancer

AWARDS

- 2016 Peter Hans Hofschneider Endowed Professorship Award from Stiftung experimentelle Biomedizin
- 2007-2012 Emmy Noether Independent Junior Group Leader Award from the German Research Foundation (DFG).

MEMBERSHIPS

- Since 2016 Principal investigator of project A01 of the Collaborative Research Center 1213 "Pulmonary Hypertension and Cor Pulmonale"
- Since 2011 Faculty member and Principal Investigator of the LOEWE Center for Cell and Gene Therapy.
- Since 2010 Principal investigator of project B07 of SFB/Transregio 81 "Chromatin Changes in Differentiation and Malignancies".
- Since 2010 Faculty member and Principal Investigator of the LOEWE Center "Universities of Giessen and Marburg Lung Center (UGMLC)".
- Since 2008 Faculty member and Principal Investigator of the Excellence Cluster Cardio-Pulmonary System (ECCPS).

LIST OF PUBLICATIONS

- Caputo L, Witzel HR, Kolovos P, Cheedipudi S, Looso M, Mylona A, van IJcken WF, Laugwitz KL, Evans SM, Braun T, Soler E, Grosveld F, **Dobrev G**. "The Isl1/Ldb1 Complex Orchestrates Genome-wide Chromatin Organization to Instruct Differentiation of Multipotent Cardiac Progenitors." ***Cell Stem Cell*** 2015, 17(3):287-99
- **Dobrev G**, Braun T. "The transcriptional landscape of regenerating newborn mouse hearts." ***Circ Res*** 2015, 116(5):767-9
- Dorn T, Goedel A, Lam JT, Haas J, Tian Q, Herrmann F, Bundschu K, **Dobrev G**, Schiemann M, Dirschinger R, Yanchun G, Kühl S, Sinnecker D, Lipp P, Laugwitz KL, Kühl M, Moretti A. "Direct Nkx2-5 transcriptional repression of Isl1 controls cardiomyocyte subtype identity." ***Stem Cells*** 2015, 33(4): 1113-1129
- Leone DP, Heavner WE, Ferenczi EA, **Dobrev G**, Huguenard JR, Grosschedl R, McConnell SK. "Satb2 Regulates the Differentiation of Both Callosal and Subcerebral Projection Neurons in the Developing Cerebral Cortex." ***Cereb Cortex*** 2015, 25(10): 3406-19
- Cheedipudi S, Genolet O, **Dobrev G**. "Epigenetic inheritance of cell fates during embryonic development." ***Front Genet*** 2014, 5:19.
- Ohtani K, Zhao C, **Dobrev G**, Manavski Y, Kluge B, Braun T, Rieger MA, Zeiher AM, Dimmeler S. "Jmjd3 controls mesodermal and cardiovascular differentiation of embryonic stem cells." ***Circ Res*** 2013, 113(7):856-62

- Srinivasan K, Leone DP, Bateson RK, **Dobreva G**, Kohwi Y, Kohwi-Shigematsu T, Grosschedl R, McConnell SK. "A network of genetic repression and derepression specifies projection fates in the developing neocortex." *Proc Natl Acad Sci U S A* 2012, 109(47):19071-8
- Witzel H, Jungblut B, Choe CP, Crump JG, Braun T, **Dobreva G**. "The LIM protein Ajuba restricts the second heart field progenitor pool by regulating Isl1 activity" *Dev Cell* 2012, 23(1):58-70
- **Dobreva G**, Braun T. "When silence is broken: polycomb group proteins in heart development." *Circ Res* 2012, 110(3):372-4
- Kieslinger M, Hiechinger S, **Dobreva G**, Consalez GG, Grosschedl R. "Early B cell factor 2 regulates hematopoietic stem cell homeostasis in a cell-nonautonomous manner" *Cell Stem Cell* 2010, 7(4):496-507
- **Dobreva G**, Braun T. "The yin and yang of polycomb repression in regenerating muscle" *Cell Stem Cell* 2010, 7(4):422-4
- Alcamo EA, Chirivella L, Dautzenberg M, **Dobreva G**, Fariñas I, Grosschedl R, and McConnell SK. "Satb2 regulates callosal projection neuron identity in the developing cerebral cortex" *Neuron* 2008, 57(3):364-77
- **Dobreva G**, Chahrour M, Dautzenberg M, Chirivella L, Kanzler B, Farinas I, Karsenty G, and Grosschedl R. "SATB2 is a multifunctional determinant of craniofacial patterning and osteoblast differentiation" *Cell* 2006, 125(5):971-86
- Kieslinger M, Folberth S, **Dobreva G**, Dorn T, Croci L, Erben R, Conzales G, and Grosschedl R. "EBF2 regulates osteoblast-dependent differentiation of osteoclasts" *Dev Cell* 2005, 9(6):757-67
- **Dobreva G**, Dambacher J, and Grosschedl R. "SUMO modification of a novel MAR-binding protein, SATB2, regulates immunoglobulin μ gene expression" *Genes Dev* 2003, 17(24): 3048-61
- Bodem J*, **Dobreva G***, Hoffmann-Rohrer U, Iben S, Zentgraf H, Delius H, Vingron M, and Grummt I. "TIF-IA, the factor mediating growth-dependent control of ribosomal RNA synthesis, is the mammalian homolog of yeast Rrn3p" *EMBO Reports* 2000, 1(2):171-5
*J. Bodem and G. Dobreva contributed equally to this work.
- Boyanovski B, Russeva M, **Dobreva G**, Ganev V, Mladenova A, Peicheva V, Nikolov K, and Baleva M. "Protein C Activity in Patients with Antiphospholipid Syndrome" *Journal of Clinical Rheumatology* 2000, 6:239-243