

Curriculum Vitae

Ioan Ovidiu Sirbu M.D., Ph.D.

CURRENT ADDRESS:

“Victor Babes” University of Medicine and Pharmacy

Department of Biochemistry

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PROFESSIONAL EXPERIENCE:

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|----------------|---|
| 2013 – present | University of Medicine and Pharmacy from Timisoara,
Timisoara, Romania
Biochemistry Department
Associated Professor |
| 2007-2012 | Institute for Biochemistry and Molecular Biology,
Ulm University, Ulm, Germany
Independent Group Leader |
| 2003-2006 | The Burnham Institute,
La Jolla, CA, USA
Postdoctoral scientist |
| 2001-2002 | Laboratoire de Chimie Structurale des
Macromolecules
Pasteur Institute, Paris, France
Scientific trainee |
| 1999-2001 | Biochemistry Department
„Victor Babes“ University of Medicine and
Pharmacy of Timisoara, Timisoara, Romania
Assistant Professor |
| 1996-1999 | Embryology and Teratology Laboratory,
Timisoara, Romania |

Junior Researcher

EDUCATION:

- 2006 Doctor in Medicine (PhD)
"Victor Babes" University of Medicine and Pharmacy of Timisoara, Romania
- 1996 Medical Doctor
"V. Babes" University of Medicine and Pharmacy of Timisoara, Romania

Short Courses

- 2013 Human Pluripotent Stem Cell Training Course, EMBO, Glasgow, UK
- 2013 Transgenic animal: techniques for the generation of transgenic mice, EMBL, Heidelberg, Germany
- 2009 Targeted Genome Editing using Zinc Finger Nucleases
EMBL, Heidelberg, Germany
- 2002 Cellular and Molecular Genetics Course
Pasteur Institute, Paris, France
- 2000 EMBO Course in Developmental Histology of Higher Vertebrates
Freiburg, Germany
- 1998 Elective fellowship in Biology of Limb Development
University of Cantabria, Santander, Spain
- 1996 Elective Fellowship in Neurodevelopmental biology
Maastricht University, Maastricht, The Netherlands

LANGUAGE PROFICIENCY

Romanian (maternal language),
English (fluent), French (reading, conversation, writing)
German (reading, conversation)
Italian (reading)

PRESENTATIONS AND LECTURES

International Symposium on Cancer Research Methods: Progress, Challenges and Opportunities, Cluj-Napoca, Romania, December 2016.

First International Retinoids Meeting, Cosenza, Italy, September 2013

RAMSES International Meeting Bucharest, Romania, September 2012

International Workshop on Stem Cell Biology and Embryology (Romanian title: „Tendinte si Emergente in Biologia Celulelor Stem si Cercetarea Embriologica“, September 22-23 2010, Bucharest, Romania.

International Workshop on Biochemistry and Molecular Biology (Romanian title: “Tendinte si Domenii Emergente in Stiintele Vietii la Nivel Molecular”), September 17-18 2008, Bucharest, Romania.

17 Wissenschaftliche Tagung der Gesellschaft für Entwicklungsbiologie, March 21-24 2007, Phillips-Universität Marburg, Marburg, Germany.

International RSBMB Conference September 6-8 2007, Timisoara, Romania.

Graduate School Advanced Course, Biocenter Oulu, Oulu, September 15th 2009.

Konstanz University Lecture Series, Biology Faculty, Konstanz, May 14th 2008.

Ulm University Lecture Series, Ulm University, June 30th 2006

Thursday Seminar Series, MPI for Immunobiology, Freiburg, October 10th 2005

MENTORING

Name of Mentee: Davi Edlinger

Dates of Mentorship: 2016-2017

University of Medicine and Pharmacy Victor Babes Timisoara
School of Medicine, Research Project and MD degree thesis

Name of Mentee: Cristina Flavia Negru

Dates of Mentorship: 2016-2017

University of Medicine and Pharmacy Victor Babes Timisoara
School of Medicine, Research Project and MD degree thesis

Name of Mentee: Suaad Sabbar (co-mentoring)

Dates of Mentorship: 2015-2016

West University of Timisoara
Biology Faculty, Research Project and Master degree thesis

Name of Mentee: Kershen Pillay

Dates of Mentorship: 2015-2016

University of Medicine and Pharmacy Victor Babes Timisoara
School of Medicine, Research Project and MD degree thesis

Name of Mentee: Anna Bodendoerfer

Dates of Mentorship: 2015-

University of Medicine and Pharmacy Victor Babes Timisoara
School of Medicine, Research Project

Name of Mentee: Lennie Fasano

Dates of Mentorship: 2014-2015

University of Medicine and Pharmacy Victor Babes Timisoara
School of Medicine, Research Project and MD degree thesis

Name of Mentee: Alexandra Moatar

Dates of Mentorship: 2014-2015

University of Medicine and Pharmacy Victor Babes Timisoara
School of Pharmacy, Research project and Pharmacy degree thesis

Name of Mentee: Ioana Laura Tuduce

Dates of Mentorship: 2007-2012

University of Ulm, International Graduate School
Research project and PhD degree thesis

Name of Mentee: Tata Purushothama Rao

Dates of Mentorship: 2007-2012

University of Ulm, International Graduate School
Research project and PhD degree thesis

GRANTS AWARDED (Principal investigator)

“Markeri microARN plasmatici asociati bolii Parkinson”, contract PN-III-P2-2.1-PED-2016-0735 (currently active)

“Retinoic acid-Wnt signaling interactions during early axial development of the mouse embryo” – UEFISCDI (Romania), contract PN-II-ID-PCE-2012-4-0575.

„New mechanisms of action of retinoic acid during post-implantational mouse embryogenesis“, Deutsche Forschung Gemeinschaft (Germany), SI 1381/1-2.

„Characterizing the interactions of retinoic acid and wnt signaling pathways during mouse embryogenesis“, Deutsche Forschung Gemeinschaft (Germany), SI 1381/1-1.

Professional activity

Organizer of the Summer School in Embryology and Embryonic Stem Cell Biology, (funded by the DFG Excellence Program) Timisoara 07-21 July 2008 (www.embryoschool.org)

Organizer of the international workshop on Stem Cell Biology and Embryology (Romanian title: „Tendinte si Emergente in Biologia Celulelor Stem si Cercetarea Embriologica“), Bucharest 22-23 September, 2010 (http://www.diaspora-stiintifica.ro/workshop.php?id_domeniu=6)

Co-founder of the Romanian Society for Developmental Biology (together with Dr. Octavian Voiculescu, University of Cambridge, UK, Dr. Marilena Lupu, Institute of Cellular Biology and Pathology " Nicolae Simionescu", Bucharest, Romania, and Prof. Dr. Iacob Checiu, West University, Romania).

LIST OF RELEVANT PUBLICATIONS

- Balacescu O, Petrut B, Tudoran O, Feflea D, Balacescu L, Anghel A, **Sirbu IO**, Seclaman E, Marian C Urinary microRNAs for prostate cancer diagnosis, prognosis, and treatment response: are we there yet? *Wiley Interdiscip Rev RNA*. 2017 Aug 16.
- Hempel A, Kühl SJ, Rothe M, Rao Tata P, **Sirbu IO**, Vainio SJ, Kühl M. The CapZ interacting protein Rcsd1 is required for cardiogenesis downstream of Wnt11a in *Xenopus laevis*. *Dev Biol*. 2017 424(1):28-39
- Enatescu VR, Papava I, Enatescu I, Antonescu M, Anghel A, Seclaman E, **Sirbu IO**, Marian C. Circulating plasma micro RNAs in patients with major depressive disorder treated with antidepressants – a pilot study. *Psychiatry Investigation*, 2016 13(5):549-557.
- Mihala A, Alexa AA, Samoila C, Dema A, Vizitiu AC, Anghel A, Tamas L, Marian C, **Sirbu IO**. A pilot study on the expression of microRNAs resident on chromosome 21 in laser microdissected FFPE prostate adenocarcinoma samples. *Rom J Morphol Embryol*. 2015;56(3):1063-8.
- Narita D, Seclaman E, Anghel A, Ilina R, Cireap N, Negru S, **Sirbu IO**, Ursoniu S, Marian C. Altered levels of plasma chemokines in breast cancer and their association with clinical and pathological characteristics. *Neoplasma*. 2016;63(1):141-9.
- Pandur P, **Sirbu IO**, Kühl SJ, Philipp M, Kühl M. Islet1 expressing cardiac progenitor cells: A comparison across species, *Development, Genes and Evolution*, 223(1-2):117-29, 2013.
- Tata PR, Tata NR, Kühl M, **Sirbu IO**. Identification of a novel epigenetic regulatory region within the pluripotency associated microRNA cluster, EEmiRC. *Nucleic Acids Res*. 39(9):3574-81, 2011.
- **Sirbu IO**, Pandur P. Saving hearts through basic research. *Birth Defects Res C Embryo Today*. 87(3): 273-283, 2009.
- Zhao X, **Sirbu IO**, Mic FA, Molotkova N, Molotkov A, Kumar S, Duester G. Retinoic acid promotes limb induction through effects on body axis extension but is unnecessary for limb patterning. *Curr Biol*. 19(12): 1050-1057, 2009.
- Woltering JM, Vonk FJ, Müller H, Bardine N, Tuduice IL, de Bakker MA, Knöchel W, **Sirbu IO**, Durston AJ, Richardson MK. Axial patterning in snakes and caecilians: evidence for an alternative interpretation of the Hox code. *Dev Biol*. 332(1): 82-89, 2009.
- **Sirbu IO**, Zhao X, Duester G. Retinoic acid controls heart anteroposterior patterning by down-regulating *Isl1* through the *Fgf8* pathway. *Dev Dyn*. 237(6): 1627-1635, 2008.
- **Sirbu IO**, Duester G., Retinoic-acid signalling in node ectoderm and posterior neural plate directs left-right patterning of somitic mesoderm. *Nat Cell Biol*. 8(3): 271-277, 2006.

- **Sirbu IO**, Gresh L, Barra J, Duester G., Shifting boundaries of retinoic acid activity control hindbrain segmental gene expression. *Development*. 132(11): 2611-2622, 2005.
- Molotkova N, Molotkov A, **Sirbu IO**, Duester G., Requirement of mesodermal retinoic acid generated by Raldh2 for posterior neural transformation. *Mech Dev*. 122(2): 145-155, 2005.
- Mic FA, **Sirbu IO**, Duester G., Retinoic acid synthesis controlled by Raldh2 is required early for limb bud initiation and then later as a proximodistal signal during apical ectodermal ridge formation. *J Biol Chem*. 279(25): 26698-26706, 2004.
- Gagy C, Bucurenci N, **Sirbu O**, Labesse G, Ionescu M, Ofiteru A, Assairi L, Landais S, Danchin A, Barzu O, Gilles AM., UMP kinase from the Gram-positive bacterium *Bacillus subtilis* is strongly dependent on GTP for optimal activity. *Eur J Biochem*. 270(15): 3196-204, 2003.
- Anghel A, Marian C, Pitulescu M, Daba A, **Sirbu IO**, Rusu V, Budowle B. Population genetic study of eight short tandem repeat loci CSF1PO, TPOX, TH01, F13A01, FESFPS, vWA, F13B and LPL in the Western Romanian population. *Forensic Sci Int*. 131(2-3): 218-219, 2003.