1. Personal Information

Name: Ioan Ovidiu Sirbu

Date of Birth: 29.05.1969, Reșița, România

Prezent position: Associate Professor, Department of Biochrmistry, Universiy of Medicine and Pharmacy from Timișoara.

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2. Education

2003-2006	Postdoctoral scientist, OncoDevelopmental Biology Program, Burnham Institute for Medical Research, La Jolla, CA, USA
2001-2002	Postdoctoral scientist, Laboratoire de Chimie Structurale des Macromolécules, Institut Pasteur, Paris, France
1999-2006	PhD, Universiy of Medicine and Pharmacy from Timișoara
1989-1995	MD, Universiy of Medicine and Pharmacy from Timișoara

3. Professional Experience

2013 - present	**Associate Professor, Group Leader,** research focused on noncoding RNA within the Biochemistry Department, University of Medicine and Pharmacy from Timisoara. Two main topics: noncoding RNA in clinical contexts (cancer, neurodegenerative diseases), the role of microRNAs in developmental and aging transcriptional homeostasis.
2006 - 2012	**Group leader,** research focused on the role of retinoic acid in axial development within the Biochemistry and Molecular Biology department, Ulm University, Germany.
2003 - 2006	**Postdoctoral researcher**, OncoDevelopmental Biology Program, Burnham Institute for Medical Research, USA. Research focused on the role of retinoic acid in embryonic development.
2001 - 2002	**Egide Fellow,** Laboratoire de Chimie Structurale des Macromolécules, Institut Pasteur, Paris, France. Researh focused on bacterial UMP kinases.
1999-2001	**Teaching Assistant** within the Biochemistry Department, University of Medicine and Pharmacy from Timisoara. Research topic: STR markers in Romanian population.
1996–2000	**Research Assistant**, Embriology and Teratology Laboratory Timișoara, Romania. Research topic: axial development in vertebrate embryos.
1995	**Research fellow** (4 months), Department of Anatomy and Embryology, Maastricht University, The Netherlands. Research topic: Posterior neuropore closure in mouse embryos.

4. Ten selected publications

1. **Sirbu IO**, Chiș AR, Moise AR. Role of carotenoids and retinoids during heart development. Biochim Biophys Acta Mol Cell Biol Lipids. 2020 Jan 22:158636.
2. Vizitiu AC, Stambouli D, Pavel AG, Muresan MC, Anastasiu DM, Bejinar C, Alexa A, Marian C, **Sirbu IO**, Sima L. Mature miR-99a Upregulation in the Amniotic Fluid Samples from Female Fetus Down Syndrome Pregnancies: A Pilot Study. Medicina (Kaunas). 2019 Nov 7;55(11). pii: E728.

3. Seclaman E, Balacescu L, Balacescu O, Bejinar C, Udrescu M, Marian C, **Sirbu IO**, Anghel A. MicroRNAs mediate liver transcriptome changes upon soy diet intervention in mice. J Cell Mol Med. 2019 Mar;23(3):2263-2267.
4. Seclaman E, Narita D, Anghel A, Cireap N, Ilina R, **Sirbu IO**, Marian C. MicroRNA Expression in Laser Micro-dissected Breast Cancer Tissue Samples - a Pilot Study. Pathol Oncol Res. 2019 Jan;25(1):233-239.
5. 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
6. 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.
7. 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.
8. **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.
9. 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.
10. Shifting boundaries of retinoic acid activity control hindbrain segmental gene expression. *Development*. 132(11): 2611-2622, 2005.

5. Complementary academic responsibilities

1. Organizer of The Annual International Conference of the Romanian Society for Biochemistry & Molecular Biology, Timisoara, Romania, June 2017.
2. 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)
3. Organizer of the Interntional Conference for Romanian Scientific Diaspora: „Tendinte si Emergente in Biologia Celulelor Stem si Cercetarea Embriologica“, Bucuresti 22-23 September, 2010
4. President of Timisoara Institute for Complex Sciences (TICS)
5. Member of Biology and Biochemistry Board of CNATDCU, (2016-2020)
6. Evaluator for Scientific Reports, International Journal of Molecular Sciences, Journal of Cellular and Molecular Medicine, PLOS One