

INFORMAȚII PERSONALE

SIRBU, Ioan Ovidiu

📍 Universitatea de Medicina si Farmacie „Victor Babeș” Timișoara (UMF Timișoara)
Str. E. Murgu Nr. 2, Timisoara 300041, Romania

☎ 0040-256-204400 int. 1413 📠 0040-756-136272

✉ ovidiu.sirbu@umft.ro

🌐 www.umft.ro

EXPERIENȚA PROFESIONALĂ

- | | |
|--------------|--|
| 2013-prezent | Conferențiar universitar
Catedra de Biochimie,
UMF Timișoara, Timișoara, Romania |
| 2006-2012 | Lider de grup de cercetare
Institutul de Biochimie si Biologie Moleculara
Universitatea din Ulm, Ulm, Germania |
| 2003-2006 | Cercetător postdoctoral
Institutul Burnham
La Jolla, California, USA |
| 2001-2002 | Cercetător (bursier Egide)
Institutul Pasteur
Paris, Franța |
| 1999-2001 | Asistent universitar
Catedra de Biochimie,
UMF Timișoara, Timișoara, Romania |
| 1996-1999 | Asistent de Cercetare
Laboratorul de Embriologie si Teratologie
Timișoara, Romania |

EDUCAȚIE ȘI FORMARE

- | | |
|-----------|--|
| 2003-2006 | Stagiu postdoctoral
Burnham Institute, CA, USA |
| 2001-2002 | Stagiu postdoctoral
Institutul Pasteur, Paris |
| 1999-2006 | Doctor in Medicina (studii doctorale)
UMF Timișoara, Timișoara, Romania |
| 1989-1995 | Doctor Medic (studii de licență)
UMF Timișoara, Timișoara, Romania |



COMPETENTE PERSONALE

Limba(i) maternă(e)

Limba Romana

Alte limbi străine cunoscute

Engleza

Franceza

INTELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare la conversație	Discurs oral	
C1	C1	C1	C1	C1
C1	C1	C1	C1	B2

Competențe dobândite la locul de muncă

O bună cunoaștere a proceselor cercetării științifice (embriologie/biologie moleculara/genetica moleculara)

Competențe organizaționale/manageriale

Lider echipa de cercetare embriologie/biologie moleculara/genetica moleculara

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator independent	Utilizator independent

Competențe informatice

MS Office, EndNote, Adobe Photoshop, Adobe Acrobat, Gephi, Partek Genomics Suite, ImageJ, Prism8,

Permis de conducere

B

Lista
articole
ISI

- **Sirbu IO**, Chiş AR, Moise AR. Role of carotenoids and retinoids during heart development. *Biochim Biophys Acta Mol Cell Biol Lipids*. 2020 Jan 22:158636.
- Pacioglu O, Theissinger K, Alexa A, Samoilă C, Sîrbu OI, Schrimpf A, Zubrod JP, Schulz R, Pîrvu M, Lele SF, Jones JI, Pârvulescu L (2020). Multifaceted implications of the competition between native and invasive crayfish: a glimmer of hope for the native's long-term survival. *Biological Invasions* 22: 827–842
- 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.
- Paunescu IA, Bardan R, Marcu A, Nitusca D, Dema A, Negru S, Balacescu O, Balacescu L, Cumanas A, **Sirbu IO**, Petrut B, Seclaman E, Marian C. Biomarker Potential of Plasma MicroRNA-150-5p in Prostate Cancer. *Medicina (Kaunas)*. 2019 Sep 3;55(9). pii: E564.
- 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.
- 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.
- 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.



Lista
articole
ISI

- **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.
- Gagyí 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.



Lista granturi de
cercetare obținute
prin competiție

- Markeri microARN plasmatici asociați bolii Parkinson”, contract PN-III-P2-2.1-PED-2016-0735.
- “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.

Prezentări orale

- The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, Romania, September, 2018.
- The Annual International Conference of the Romanian Society for Biochemistry & Molecular Biology, Timisoara, Romania, June 2017.
- 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”, Bucharest, Romania, September 2010.
- International Workshop on Biochemistry and Molecular Biology (Romanian title: “Tendinte si Domenii Emergente in Stiintele Vietii la Nivel Molecular”), Bucharest, Romania, September 2008.
- 17 Wissenschaftliche Tagung der Gesellschaft für Entwicklungsbiologie, Phillips-Universität Marburg, Marburg, Germany, March 2007.
- International RSBMB Conference, Timisoara, Romania, September 2007.
- 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.

