

**Curriculum Vitae**  
**Dr. Dr. Med. Ioan-Ovidiu Sîrbu**

**Adresa:**

Universitatea de Medicină și Farmacie "Victor Babeș" din Timișoara  
Catedra de Biochimie  
2 E. Murgu , 300041 Timișoara, Romania

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**Experiența profesională:**

2013 – prezent	Universitatea de Medicina si Farmacie „Victor Babeș” din Timișoara, Timișoara, Romania Departamentul de Biochimie <b>Conferențiar Universitar</b>
2007-2012	Institute for Biochemistry and Molecular Biology, Universitatea Ulm, Ulm, Germania <b>Lider de Grup</b>
2003-2006	The Burnham Institute, La Jolla, CA, USA <b>Cercetator postdoctoral</b>
2001-2002	Laboratoire de Chimie Structurale des Macromolecules Pasteur Institute, Paris, Franta <b>Cercetator postdoctoral</b>
1999-2001	Universitatea de Medicina si Farmacie „Victor Babes” din Timișoara, Timișoara, Romania Departamentul de Biochimie <b>Asistent Universitar</b>
1996-1999	Laboratorul de Embriologie si Teratologie Timișoara, Romania <b>Asistent de Cercetare</b>

**EDUCATIE:**

- 2006 Doctor in Medicina (PhD)  
Universitatea de Medicina si Farmacie "Victor Babeş"  
din Timişoara, Romania
- 1996 Doctor Medic  
Universitatea de Medicina si Farmacie "Victor Babeş",  
din Timişoara, Romania

**Cursuri de scurta durata**

- 2018 3rd @RoBioinfo Seminar: Next-Generation  
Sequencing Data Analysis, Timişoara, Romania
- 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, Germania
- 2002 Cellular and Molecular Genetics Course  
Pasteur Institute, Paris, Franta
- 2000 EMBO Course in Developmental Histology of Higher  
Vertebrates  
Freiburg, Germania
- 1998 Elective fellowship in Biology of Limb Development  
University of Cantabria, Santander, Spania
- 1996 Elective Fellowship in Neurodevelopmental biology  
Maastricht University, Maastricht, Olanda

**Limbi străine**

Romana (limba materna),  
Engleza, Franceza (fluent)  
Germana (citit, scris, vorbit nivel mediu)  
Italiana (citit)

### **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“, 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 15<sup>th</sup> 2009.
- Konstanz University Lecture Series, Biology Faculty, Konstanz, May 14<sup>th</sup> 2008.
- Ulm University Lecture Series, Ulm University, June 30<sup>th</sup> 2006
- Thursday Seminar Series, MPI for Immunobiology, Freiburg, October 10<sup>th</sup> 2005

### **Activitate de mentorat**

**Nume:** Aimee R. Chiș

**Data:** 2018-2021

Universitatea de Medicina si Farmacie “Victor Babeș” din Timișoara, Romania

Facultatea de Medicina,

Proiect de cercetare si teza de doctorat

**Nume:** Athina-Oana Barbul (co-mentorat)

**Data:** 2019-2021

Universitatea Politehnica din Timișoara, Romania

Facultatea de Automatizări si Calculatoare,

Proiect de cercetare si teza de masterat

**Nume:** Alexandra Boc

**Data:** 2016-2019

Universitatea de Medicina si Farmacie “Victor Babeș” din Timișoara, Romania

Facultatea de Medicina,  
Proiect de cercetare si teza de licență

**Nume:** David Edlinger

**Data:** 2016-2017

Universitatea de Medicina si Farmacie "Victor Babeș" din Timișoara, Romania  
Facultatea de Medicina,  
Proiect de cercetare si teza de licență

**Nume:** Cristina Flavia Negru

**Data:** 2016-2017

Universitatea de Medicina si Farmacie "Victor Babeș" din Timișoara, Romania  
Facultatea de Medicina,  
Proiect de cercetare si teza de licență

**Nume:** Suaad Sabbar (co-mentorat)

**Data:** 2015-2016

Universitatea de Vest of Timisoara  
Facultatea de Biologie  
Proiect de cercetare si teza de master

**Nume:** Kershen Pillay

**Data:** 2015-2016

Universitatea de Medicina si Farmacie "Victor Babeș" din Timișoara, Romania  
Facultatea de Medicina  
Proiect de cercetare si teza de licenta

**Nume:** Anna Bodendoerfer

**Data:** 2015-2016

Universitatea de Medicina si Farmacie "Victor Babeș" din Timișoara, Romania  
Facultatea de Medicina,  
Proiect de cercetare

**Nume:** Lennie Fasano

**Data:** 2014-2015

Universitatea de Medicina si Farmacie "Victor Babeș" din Timișoara, Romania  
Facultatea de Medicina,  
Proiect de cercetare si teza de licenta

**Nume:** Alexandra Moatar

**Data:** 2014-2015

Universitatea de Medicina si Farmacie "Victor Babeş" din Timișoara, Romania

Facultatea de Farmacie,

Proiect de cercetare si teza de licenta

**Nume:** Ioana Laura Tuduce

**Data:** 2007-2012

University of Ulm, International Graduate School

Proiect de cercetare si teza de doctorat

**Nume:** Tata Purushothama Rao

**Data:** 2007-2012

University of Ulm, International Graduate School

Proiect de cercetare si teza de doctorat

### **Granturi de cercetare castigate prin competitie**

- Markeri microARN plasmatici asociati bolii Parkinson,  
UEFISCDI (Romania), PN-III-P2-2.1-PED-2016-0735
- Retinoic acid-Wnt signaling interactions during early axial development of the mouse embryo  
UEFISCDI (Romania), 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.

### **Activitate profesionala**

- Organizator al The Annual International Conference of the Romanian Society for Biochemistry & Molecular Biology, Timisoara, Romania, June 2017.
- Organizator al Summer School in Embryology and Embryonic Stem Cell Biology, (funded by the DFG Excellence Program) Timisoara 07-21 Iulie 2008 ([www.embryoschool.org](http://www.embryoschool.org))

- Organizator al International Workshop on Stem Cell Biology and Embryology (Romanian title: „Tendinte si Emergente in Biologia Celulelor Stem si Cercetarea Embriologica”), Bucuresti 22-23 Septembrie, 2010 ([http://www.diaspora-stiintifica.ro/workshop.php?id\\_domeniu=6](http://www.diaspora-stiintifica.ro/workshop.php?id_domeniu=6))
- Presedinte al Timisoara Institute for Complex Sciences (TICS)

## LISTA PUBLICATIILOR

### PRIM AUTOR

Nr.	Autori	Titlul articolului	Revista	IF:
1	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	4,519
2	Virgil RE, Dehelean CA, Nussbaum LA, Kalinovic R, Hogeal L, Homorogan C, Enatescu I, Papava I, Marinescu I, Ifteni P, Simu M, Marian C, Giourgi-Oncu C, Sirbu IO	Study on tolerability and efficacy of paliperidone palmitate, olanzapine pamoate and risperidone long-acting injection in a Romanian sample of patients with schizophrenia	Farmacia 2020, 68(2): 242-249	1,326
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	4,302
4	Vizitiu AC, Stambouli D, Pavel AG, Muresan MC, Anastasiu DM, Bejinar C, Alexa A, Marian C, <b>Sirbu IO</b> , 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	1,467
5	Paunescu IA, Bardan R, Marcu A, Nitusca D, Dema A, Negru S, Balacescu O, Balacescu L, Cumanas A, <b>Sirbu IO</b> , 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	1,467
6	Enatescu VR, Papava I, Enatescu I, Antonescu M, Anghel A, Seclaman E, <b>Sirbu IO</b> , Marian C.	Circulating plasma micro RNAs in patients with major depressive disorder treated with antidepressants – a pilot study.	<i>Psychiatry Investigation</i> , 2016 13(5):549-557	1,406
7	Mihala A, Alexa AA, Samoila C, Dema A, Vizitiu AC, Anghel A, Tamas L, Marian C, <b>Sirbu IO</b> .	A pilot study on the expression of microRNAs resident on chromosome 21 in laser microdissected FFPE prostate adenocarcinoma samples	<i>Rom J Morphol Embryol</i> . 2015;56(3):1063-8.	0,811

8	Tata PR, Tata NR, Kühl M, <b>Sirbu IO</b>	Identification of a novel epigenetic regulatory region within the pluripotency associated microRNA cluster, EEmiRC	<i>Nucleic Acids Res.</i> 2011 39(9):3574-81,	8,026
9	<b>Sirbu IO</b> , Pandur P.	Saving hearts through basic research	<i>Birth Defects Res C Embryo Today.</i> 2009; 87(3): 273-283	3,623
10	<b>Sirbu IO</b> , Zhao X, Duester G	Retinoic acid controls heart anteroposterior patterning by down-regulating Isl1 through the Fgf8 pathway	<i>Dev Dyn.</i> 2008; 237(6): 1627-1635,	2,864
11	<b>Sirbu IO</b> , Duester G.	Retinoic-acid signalling in node ectoderm and posterior neural plate directs left-right patterning of somitic mesoderm.	<i>Nat Cell Biol.</i> 2006; 8(3): 271-277	18,485
12	<b>Sirbu IO</b> , Gresh L, Barra J, Duester G	Shifting boundaries of retinoic acid activity control hindbrain segmental gene expression	<i>Development.</i> 2005; 132(11): 2611-2622	7,603

#### CO-AUTOR

Nr.	Autori	Titlul articolului	Revista	IF:
1	Nitusca D, Marcu A, Dema A, Balacescu L, Balacescu O, Bardan A, Cumpănas AA, <b>Sirbu IO</b> , Petrut B, Seclaman E, Marian C	Long Noncoding RNA NEAT1 as a Potential Candidate Biomarker for Prostate Cancer	<i>Life</i> 2021, 11(4): 320	2,991
2	Udrescu L, Bogdan P, Chiş A, <b>Sirbu IO</b> , Topîrceanu A, Văruţ RM, Udrescu M	Uncovering New Drug Properties in Target-Based Drug-Drug Similarity Networks	<i>Pharmaceutics</i> 2020 Sep 16;12(9):879	4,421
3	Pacioglu O, Theissinger K, Alexa A, Samoilă C, <b>Sirbu IO</b> , Schrimpf A, Zubrod JP, Schulz R, Pîrvu M, Lele SF, Jones JI, Pârvulescu L.	Multifaceted implications of the competition between native and invasive crayfish: a glimmer of hope for the native's long-term survival	<i>Biological Invasions</i> 2020, 22: 827–842	2,897
4	Seclaman E, Narita D, Anghel A, Cireap N, Ilina R, <b>Sirbu IO</b> , Marian C.	MicroRNA Expression in Laser Micro-dissected Breast Cancer Tissue Samples - a Pilot Study.	<i>Pathol Oncol Res.</i> 2019 Jan;25(1):233-239	1,935
5	Seclaman E, Narita D, Anghel A, Cireap N, Ilina R, <b>Sirbu IO</b> , Marian C.	Urinary microRNAs for prostate cancer diagnosis, prognosis, and treatment response: are we there yet?	<i>Wiley Interdiscip Rev RNA.</i> 2017 Aug 16	5,844
6	Hempel A, Kühl SJ, Rothe M, Rao Tata P, <b>Sirbu IO</b> , Vainio SJ, Kühl M.	The CapZ interacting protein Rcsd1 is required for cardiogenesis downstream of Wnt11a in <i>Xenopus laevis</i> .	<i>Dev Biol.</i> 2017 Apr 1;424(1):28-39.	3,262



7	Enatescu VR, Papava I, Enatescu I, Antonescu M, Anghel A, Seclaman E, <b>Sirbu IO</b> , Marian C.	Circulating Plasma Micro RNAs in Patients with Major Depressive Disorder Treated with Antidepressants: A Pilot Study.	Psychiatry Investig. 2016 Sep;13(5):549-557.	1,434
8	Narita D, Seclaman E, Anghel A, Ilina R, Cireap N, Negru S, <b>Sirbu IO</b> , 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.	1,696
9	Pandur P, <b>Sirbu IO</b> , Kühl SJ, Philipp M, Kühl M.	Islet1-expressing cardiac progenitor cells: a comparison across species.	Dev Genes Evol. 2013 Mar;223(1-2):117-29.	2,125
10	Zhao X, <b>Sirbu IO</b> , 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. 2009 Jun 23;19(12):1050-7.	9,251
11	Woltering JM, Vonk FJ, Müller H, Bardine N, Tuduice IL, de Bakker MA, Knöchel W, <b>Sirbu IO</b> , 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.	3,262
12	Molotkova N, Molotkov A, <b>Sirbu IO</b> , Duester G	Requirement of mesodermal retinoic acid generated by Raldh2 for posterior neural transformation	Mech Dev. 122(2): 145-155, 2005.	1,9
13	Mic FA, <b>Sirbu IO</b> , 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	4,01
14	Gagyi 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. 2003 Aug;270(15):3196-204.	4,237
15	Anghel A, Marian C, Pitulescu M, Daba A, <b>Sirbu IO</b> , 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	1,974

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