

Curriculum Vitae

PERSONAL INFORMATION	Adrian Madalan, MD, PhD
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	Sex M Nationality Romanian

WORK EXPERIENCE

2019-present	Staff physician / Laboratory Medicine "Dr. Victor Babes" Diagnostic and Treatment Center https://www.cdt-babes.ro Mihai Bravu Street, No. 281, Bucharest - Clinical laboratory / Hematology laboratory - Health Services Management Natl. Inst. training / Hospital Transfusion Unit Coord.
2019-present	Associated faculty University of Bucharest, Panduri Street, No. 90-92, Bucharest www.unibuc.ro - Teaching activity: Fundamental Hematology & Hematology Laboratory - Faculty of Chemistry
2016-2022	Residency / Neurosurgery Bucharest Emergency University Hospital (SUUB) https://www.suub.ro Splaiul Independentei No. 169, Sector 5, Bucharest - Clinical surgical training - Department of Neurosurgery
01/2015-10/2015	Staff physician / Laboratory Medicine Renamed Laborator, Calea Unirii No. 143, Craiova https://www.renamedlaborator.ro - Immunology & Coagulation Division - Hormones and tumor markers determination; coagulation tests. - In charge of metrology and environment monitoring at the lab level.
01/2012-01/2014	Postdoctoral Fellow / Cell Biology University of Houston - Houston, TX, USA https://www.uh.edu - Biology & Biochemistry Department / Cell Biology Division - Research: Behavior & sensory physiology – A molecular vibration-sensing component in the mechanism of olfaction
2000-2005	Residency / Laboratory Medicine Fundeni Clinical Institute Bucharest, Romania https://icfundeni.ro - Elective rotation (03/2004-08/2005): HIV National Reference Laboratory, Cantacuzino Institute, Bucharest, Romania. - Rotations (03/2000-02/2004): Clinical biochemistry (8 months), Hematology (1 year), Microbiology, immunology & mycology (10 months), Virology (6 months), Tropical medicine (3 months). Research assistant / Molecular & Cell Biology Dept., Baylor College of Medicine, Houston, TX, USA (8 months).
01/1999-02/2000	Internship / Medical practice for license Cantacuzino Clinical Hospital, Bucharest, Romania Clinical rotations: Internal Medicine / Surgery / Obstetrics-Gynecology
09/1998-08/1999	Head of New Pharmaceutical Bioproducts Laboratory Program coordinator / R&D Direction Biotehnos S.A. Bucharest, Romania Pharmaceutical research

EDUCATION AND TRAINING

2005-2011	PhD / Cell Biology	EQF Level 8
	University of Houston Houston, TX, USA, Biology & Biochemistry Department / Cell Biology Division - Research: Behavioral genetics / Learning & memory. - Dissertation: Investigation of the role of G(o) signaling in short-term memory formation in <i>Drosophila melanogaster</i> . Advisor: Professor Gregg Roman, PhD., Director of the Biology of Behavior Institute, Dept. of Biology and Biochemistry, University of Houston	
1992-1998	MD / General Medicine	EQF Level 7
	Carol Davila University of Medicine & Pharmacy, Bucharest, Romania - With a thesis about hypothalamo-pituitary-gonadal axis regulation from a cybernetic point of view (Biophysics Dept.). - Elective / summer classes: imaging & biophysical techniques (MRI, etc.), and laboratory medicine & pathology.	
1997-1998	Master of Science / Neurobiology	EQF Level 7
	University of Bucharest, Faculty of Biology, Dept. of Physiology & Biophysics - Project for Neural Networks class: an expert system for emergency toxicological diagnosis using artificial neural networks for pattern recognition. - Training in electrophysiological techniques and virtual laboratory instrumentation (LabVIEW and Matlab).	
1990-1995	Bachelor of Science / Biochemistry	EQF Level 6
	University of Bucharest, Faculty of Biology, Dept. of Biochemistry. Thesis project: a GC-MS study of steroid metabolites profiles in heavy sports athletes using anabolic androgens (Pharm. Res. & Antidoping Control Lab. of the Research Center for Sports, and Bucharest University)	

PERSONAL SKILLS

Mother tongue(s)	Romanian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	C1
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages					

EXPERTISE FIELD	- Biochemistry / Clinical Laboratory / Hematology - Neurobiology / Learning & Memory / Neurosurgery
EXTRACURRICULAR ACTIVITIES	As a graduate student and postdoctoral fellow, I tutored a number of undergraduate students in the lab; their research was presented at regional meetings – see Harmouche J et al. below. I also trained a few visiting researchers in short-term memory assays.

MENTOR OF STUDENTS	- Teaching experience: Human Anatomy & Physiology I & II, and Human Physiology laboratory classes (2x25 students / semester for 6 ½ years, at University of Houston).
PUBLICATIONS	1. Iacob, G., Rotund, B., Iancu, A., <u>Madalan, A.</u>, Marinescu, A., Simion, G. 2017. Intradural spinal, extramedullary, T4-T5 cavernous hemangioma - case report, <i>Romanian Neurosurgery</i>, 31(1): 32-40 2. Seri, A., <u>Madalan, A.</u>, Tiglea, A.I., Marta, D.S. 2016. The significance of troponin elevation in septic condition – an evaluation of its utility. <i>Modern Medicine</i>, 2016, 3:243-7 3. Seri, A., Marta, D.S., <u>Madalan, A.</u>, Popescu, M., Tiglea, A.I., Moldoveanu E. 2016. Lipoprotein-associated phospholipase A2, myeloperoxidase and vascular endothelial growth factor - predictors of high vascular risk in respiratory bacterial infections. <i>J Med Life</i>. 2016 Oct-Dec; 9(4):429-433. 4. <u>Madalan, A.</u>, Yang, X., Ferris, J., Zhang, S., and Roman, G. 2012. G(o) activation is required for both appetitive and aversive memory acquisition in <i>Drosophila</i>. <i>Learn Mem</i> 19(1): 26-34. 5. Bittner, E.R., <u>Madalan, A.</u>, Czader, A., and Roman, G. 2012. Quantum origins of molecular recognition and olfaction in <i>Drosophila</i>. <i>J Chem Phys</i> 137(22): 22A551. Abstracts: 6. Roman, G. W., <u>Madalan, A.</u>, Zhang, S., Phospholipase C beta21 is required for aversive but not appetitive associative learning in <i>Drosophila</i>. Society for Neuroscience Meeting, October 13-17, 2012, New Orleans, LA. 7. Harmouche J., Harmouche F., <u>Madalan, A.</u>, Roman, G. The Molecular Vibration of Odorants as a Salient feature in <i>Drosophila</i> Olfaction. Regional Undergraduate Symposium, October 20, 2012, Rice University, Houston, TX. 8. Roman, G. W., Zhang, S., <u>Madalan, A.</u> Heterotrimeric G(o) activation is required for neural inhibition during negatively-reinforced olfactory learning in <i>Drosophila</i>. Society for Neuroscience Meeting, November 12-16, 2011, Washington, DC. 9. Roman, G. W., Zhang, S., <u>Madalan, A.</u> The acquisition of associative memories requires the inhibitory action of the heterotrimeric G(o) in the mushroom body neurons of <i>Drosophila melanogaster</i>. Biology of Behavior Institute Retreat, 2011 Houston, TX. 10. <u>Madalan, A.</u>, Yang, X., Ferris, J., Zhang, S., and Roman, G. Examinations of the memory processes requiring G(o) signaling in the mushroom body. 50-th Annual <i>Drosophila</i> Research Conference, March 4-8, 2009, Chicago, IL