


# Curriculum Vitae

## PERSONAL INFORMATION

**Mihaela TURTOI (CĂRNUȚĂ)**

 Institute of Cellular Biology and Pathology "Nicolae Simionescu", 050568 Bucharest (Romania)

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Sex Female | Date of birth September 04, 1989 | Nationality Romanian

## EDUCATION AND TRAINING

**2013-2018 PhD in Cell and Molecular Biology / Biochemistry**

Institute of Cell Biology and Pathology "N. Simionescu" of the Romanian Academy, B. P. Hașdeu Street, no. 8, postal code 050568, sector 5, Bucharest

**2016-2018 Master's Degree in Chemistry of Medicines and Cosmetic Products**

Department of Chemistry, Faculty of Chemistry, University of Bucharest

**29<sup>th</sup> May- 9<sup>th</sup> June, 2017 FELASA accredited certification for working with laboratory animals (ID 051 / 15\_3\_2017). Modules A, B, C and D.**

University of Heraklion, Crete, Greece

**23<sup>rd</sup> - 29<sup>th</sup> August, 2015 Certificate of participation at the European Atherosclerosis Society Summer School, Prague, Czech Republic.**

European Society for Atherosclerosis (EAS)

**2011-2013 Master's Degree in Biochemistry and Molecular Biology**

Department of Biochemistry, Faculty of Biology, University of Bucharest

**2008-2011 Bachelor's Degree in Chemistry, Technological Biochemistry**

Department of Technological Biochemistry, Faculty of Chemistry, University of Bucharest

**2004-2008 Baccalaureate certificate**

Technical College "Lazar Edeleanu", Ploiesti, Prahova

**2006-2007 Diploma of Excellence in Chemistry**

County Centre for Excellence, Ministry of Education, Research and Youth, Ploiesti, Prahova

## WORK EXPERIENCE

**2019-Present Scientific Researcher III** at Institute of Cellular Biology and Pathology "Nicolae Simionescu" B.P. Hașdeu nr.8, 050568 Bucharest, Romania

**2016-2019 Scientific researcher** at Institute of Cellular Biology and Pathology "Nicolae Simionescu" B.P. Hasdeu nr.8, 050568 Bucharest, Romania

**2013-2016 Scientific Research Assistant** of Cellular Biology and Pathology "Nicolae Simionescu" B.P. Hasdeu nr.8, 050568 Bucharest, Romania

**April-November, 2012 Chemistry teacher**  
The National Theoretical Highschool, Buzești, nr. 14, Bucharest, Romania

## PERSONAL SKILLS

Mother tongue

- **Romanian**

Second language

- **English:** *Independent user* C1 in understanding, speaking, writing

**Computer skills and competencies**

- Advanced knowledge of Microsoft Office, Total Lab, and GraphPad software packages.
- Advanced knowledge of the use of data control and data processing systems of real-time PCR systems Applied Biosystems (StepOnePlus, ViiA7).
- Advanced knowledge of image editing and analysis software (Adobe Photoshop, Nikon NIS Elements AR).
- Advanced knowledge of internet use.

**Social skills and competencies**

- Able to work in a team, as a result of the working experience acquired in the Lipidomic Department, the Lipoprotein Laboratory, and the Medical and Pharmaceutical Bionanotechnologies laboratory of the IBPC-NS, the collaboration with experienced scientists but also with students at the master or the PhD program.
- Presentations at national and international conferences.
- Presentations at scientific seminars.
- Involvement in training young researchers in the laboratory (Master students).
- Able to work independently including planning & executing activities with minimum supervision.
- Able to organize tasks in a team situation and able to motivate colleagues.
- Technical expertise: experimental animal model - laparotomy, organ sampling and processing to obtain cryo-sections, follow-up of changes in altered molecular mechanisms in the small intestine, liver, arterial wall and heart valves in hyperlipidemic/diabetic hamsters, optical, fluorescence microscopy for cells in culture and tissues; separation of lipoproteins by ultracentrifugation, biochemical determinations; endothelial cell culture techniques, macrophages derived from monocytes, hepatocytes; immunological techniques - immuno-electrophoresis, ELISA, immunohistology and immunocytochemistry; electrophoretic techniques - in agarose/PAGE for proteins and nucleic acids; molecular biology techniques - RNA/DNA isolation from cells/tissues, PCR, real-time PCR (SyBr Green/TaqMan).
- Able to centralize scientific data, drafting research reports and scientific papers.

**Technical skills and competencies**

Technical expertise: experimental animal model - laparotomy, organ sampling and processing to obtain cryo-sections, follow-up of changes in altered molecular mechanisms in the small intestine, liver, arterial wall, and heart valves in hyperlipidemic/diabetic hamsters/ mice, optical, fluorescence microscopy for cells in culture and tissues; separation of lipoproteins by ultracentrifugation, biochemical determinations; endothelial cell culture techniques, macrophages derived from monocytes, hepatocytes; immunological techniques - immuno-electrophoresis, ELISA, immunohistology and immunocytochemistry; electrophoretic techniques - in agarose/PAGE for proteins and nucleic acids; molecular biology techniques - RNA/DNA isolation from cells/tissues, PCR, real-time PCR (SyBr Green/TaqMan).

<b>Publications</b>	<b>18 articles in ISI journals and 9 abstracts in ISI journals</b>
<b>Presentations</b>	<b>5 oral presentations</b>
<b>Conferences</b>	Attended national and international conferences: communications at international conferences – <b>30</b> , communications at national conferences – <b>5</b> .
<b>Honours and awards</b>	<b>13 national and international awards</b> National Awards - 11 awards of UEFISCDI Research Outcomes - 1 award of Student Scientific Session in 2011 International Awards – 2 awards for oral presentations in 2014 and 2015
<b>Scholarships</b>	<b>1 bursary</b> - Young Investigator Fellowship at 85 <sup>th</sup> EAS Congress, Prague, Czech Republic, 23 <sup>rd</sup> – 26 <sup>th</sup> April 2017. <b>2 scholarships:</b> 1 <sup>st</sup> scholarship for International Atherosclerosis Research Summer School, Prague, Czech Republic, 23 <sup>rd</sup> – 29 <sup>th</sup> August 2015 2 <sup>nd</sup> a PhD scholarship: Romanian Academy (SCOSAAR): 2013-2016.
<b>Member of Scientific Societies</b>	Romanian Society of Cellular Biology, Romanian Society of Biochemistry and Molecular Biology, European Atherosclerosis Society
<b>Web of Science</b>	- <b>Hirsh index: 12</b> , total number of citations = 406
<b>Scopus</b>	- <b>Hirsh index: 12</b> , total number of citations = 437
<b>Google Scholar</b>	- <b>Hirsh index: 13</b> , total number of citations = 540
<b>Reviewer invited at</b>	J of Pharmacy and Pharmacol, Biomedicine, BMJ Open Diabetes Research & Care, IJMS, Biometals, Biomedicines, Int J of Biol Macromol, etc.
<b>Coordinator in research grants</b>	<b>2020-2022:</b> PN-III-P1-1.1-PD-2019-0247– „Preclinical evaluation of newly designed vanadium compounds for diabetes therapy”.
<b>Collaborator in research grants</b>	1. <b>2015-2017:</b> PN-II-RU-TE-2014-4-0506 - „Molecular mechanisms of hyperlipidemia-induced insulin resistance; metabolic connections between the intestine, liver steatosis and atherosclerosis”. 2. <b>2015-2017:</b> PN-II-RU-TE-2014-4-0290 - „Assessment of molecular strategies to improve atherogenic dyslipidemia by modulating the microRNAs expression”. 3. <b>2013-2016:</b> PN-II-PT-PCCA-2011-3.1-0184 - „New predictive biomarkers for the evolution of the stable and unstable CAD identified by lipidomic, proteomic and molecular biology technologies”. 4. <b>2018-2022:</b> PN-III-P4-ID-PCCF-2016-0050 – „Mimicking living matter mechanisms by five-dimensional chemistry approaches”. 5. <b>2021-2023:</b> PN-III-P4-ID-PCE-2020-2465– „Targeted therapy based on biomimetic nanocarriers for resolution of inflammation in atherosclerosis”.