

## **Gabriela Chirițoiu**

### **Personal details:**

Date of birth: November 2<sup>th</sup> 1985

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### **Academic qualifications:**

Institute of Biochemistry, Romanian Academy, Bucharest, Romania

**Ph.D., Biology**, November 2008 in course

University of Bucharest, Faculty of Chemistry, Bucharest, Romania

**B.Sc., Chemistry-specialization Technological Biochemistry**, October 2004-June, 2008

*Thesis title: "Genic expression of differentiation antigens in melanoma cells"* Supervisors: Dr. Ileana C. Farcășanu and Dr. Ștefana M. Petrescu

### **Work experience:**

Department of Molecular Cell Biology, Institute of Biochemistry, Bucharest, Romania –  
Head of department: Dr. Ștefana M. Petrescu

- December 13<sup>th</sup>, 2013-present: Research Scientist
- July 1<sup>st</sup>, 2008-December 12<sup>th</sup>, 2013: Research Assistant
- September 17<sup>th</sup>, 2007-June 30<sup>th</sup>, 2008: Research Internship

Laboratory techniques: Performing experiments of cell culture, transfection, stable cell line generation, Western blotting, RNA isolation and RT-PCR, pulse-chase and immunoprecipitation, confocal microscopy and image analysis, immunohistochemistry, recombinant protein expression and purification from bacteria, antibodies production in rabbit, mouse and rat tissue analysis.

Other: Protocol compilation and validation responsibility; supervising and teaching first year PhD students and MSc students basic methods and laboratory routine. Experienced with MS office, HTML and database search, image processing and data analysis software.

## **Fellowships:**

*1<sup>st</sup> September-1 st November 2015*: exchange experience with with Ludwig Cancer Research Center, Faculty of Biology and Medicine, University of Lausanne.

*1<sup>st</sup> October- December 1 st 2014*: exchange experience with Ludwig Cancer Research Center, Faculty of Biology and Medicine, University of Lausanne.

*August 13 –November 2 nd 2013* : exchange experience with: Ludwig Cancer Research Center, Faculty of Biology and Medicine, University of Lausanne.

*June 2011*: 36th FEBS Congress-”Biochemistry for Tomorrow's Medicine”, Torino, Italy

*June 2010*: FEBS workshop: „Eukaryotic Lipids; Treasure of Regulatory Information“, Spetses, Greece -*FEBS travel grant*

*November 2009*: Ph.D. course: Biomolecular Interactions by Experimental Methods, Brno, Czech Republic- *University of Brno travel grant*

## **Oral presentations:**

2012: Chiritoiu G and Petrescu SM, “*Lipid droplets-alternative transport route to degradation for ERAD substrates?*”, Annual International Meeting of RSBMB, Bucharest, Romania

**Posters:** 11 posters as presenting author at international conferences – *1 best poster award*  
17 posters as co-author at international conferences

## **Societies and honoraries:**

2008-present: Member of Romanian Society of Biochemistry and Molecular Biology.

## **Teaching and conference organization activities:**

2010- Instructor for a seminar and hands-on laboratory for two weeks during the POSDRU postdoctoral program- “*Cellular and Molecular Biotechnologies for Medical Applications*”

### **International refereed publications:**

1. Marin MB, Ghenea S, Spiridon LN, **Chiritoiu GN**, Petrescu A-J, Petrescu SM. (2012) “*Tyrosinase Degradation Is Prevented when EDEM1 Lacks the Intrinsically Disordered Region*”. PLoS ONE 7(8): e42998. doi:10.1371/journal.pone.0042998.
2. Cucu D, **Chiritoiu G**, Petrescu S, Babes A, Stanica L, Duda DG, Horii A, Dima SO, Popescu I.(2014) “*Characterization of functional transient receptor potential melastatin 8 channels in human pancreatic ductal adenocarcinoma cells*”. Pancreas. 2014 Jul;43(5):795-800. doi: 10.1097/MPA.000000000000106.
3. **Chiritoiu GN**, Munteanu CVA, Mitrea N. (2015) ”*Combining heterologous bacterial expression system with affinity chromatography purification to obtain native mouse tyrosinase*” FARMACIA, 2015, Vol. 63, 2.
4. Butnaru CM, Munteanu CVA, **Chiritoiu GN** , Ghenea S, Petrescu AJ, Petrescu SM. (2015) “*Comparison of protein extraction conditions for EDEM3 interactors in melanoma cells*” ROM. J. BIOCHEM., **52**, 1, 31–38.
5. Pastramă F, Munteanu CVA, **Chiritoiu GN**, Petrescu SM, Petrescu AJ. (2015) “*Interaction of tyrosinase and its soluble mutant with biological partners in melanoma cells*” ROM. J. BIOCHEM., **52**, 1, 51–60.
6. **Chiritoiu GN**, Jandus C, Munteanu CV, Ghenea S, Gannon PO, Romero P, Petrescu SM. 2015 “*Epitope located N-glycans impair the MHC-I epitope generation and presentation*” ELECTROPHORESIS ,Dec 24. doi: 10.1002/elps.201500449.

### **National refereed publications:**

1. National OSIM patent for: “Production of polyclonal antibodies against EDEM2”,  
Authors: **Chiritoiu G<sub>2</sub>**, Ghenea S, and Petrescu SM – (Reg.Dep.OSIM: A / 00989 / 18.10.2010 (2010)