

# *Curriculum vitae*

## **Name and surname**

Petruta-Ramona Alexandru

## **Date and place of birth**

June 29<sup>th</sup>, 1985

Buzau, Romania

## **Research positions held**

2015 – present: researcher, Department of Molecular Cell Biology, Institute of Biochemistry, Bucharest

2008 – 2015: research assistant, Department of Molecular Cell Biology, Institute of Biochemistry, Bucharest

## **Education**

2010 – 2015: Ph.D studies - Institute of Biochemistry of the Romanian Academy, Romania, (supervisor: Dr. Stefana Petrescu)

2008-2010: MSc studies - Faculty of Biology, University of Bucharest, Romania

2004-2008: Undergraduate studies - Faculty of Biology, Biochemistry section, University of Bucharest, Romania

## **Fellowships and research stages**

2011-2014 – doctoral fellowship at the Institute of Biochemistry, grant POSDRU /107/1.5/S/82514, Bucharest

## **Awards**

2013 - „*Best Poster award*” at the Annual Congress of the Romanian Medical Association, Bucharest, May 31- 2 June

2015 – “Best Poster Award” at the International Conference of RSBMB, September 17<sup>th</sup>-18<sup>th</sup>.

## **List of publication**

1. Daniela Lixandru, Elena Violeta Bacanu, Bogdana Vargolici, Horia Vargolici, Petruta Alexandru, Marius Emil Bacanu, Paul Gagniuc, Constantin Ionescu-Targoviste, Cristian Serafinceanu, *Changes in the serum proinflammatory cytokines in patients with elevated HOMA-IR and type 2 diabetes mellitus*, Farmacia, vol 63 (1), pp. 132 -139, 2015 (FI = 1.25)
2. Andrada Mihai, Daniela Lixandru, Petruta Alexandru, Irina Stoian, Simona Carniciu Manuela Mitu, Cristian Guja, Constantin Ionescu-Targoviste, *Negative association between paraoxonase 2, anthropometric markers and metabolic syndrome*, Open Life Sci. 2015; 10: 365-371 DOI 10.1515/boil-2015-0037 (FI=0.71)

3. Bogdana Vargolici, Petruta Alexandru, Daniela Lixandru, *Physiological and dysfunctional secretion of insulin*, Rom. J. Biochem., 49, 2, 211-220, 2012 (CNCSIS B+)
4. Cristian V.A. Munteanu, Petruta R. Alexandru, Laurentiu Spiridon, Andrei-Jose Petrescu, Adina-Luminita Milac Insights into cecropin-membrane interaction mechanism given by molecular dynamics simulation, Rom. J. Biochem., 49, 1, 21–31 (2012), (CNCSIS B+).

### Patens:

National OSIM patent, *Policlonal antibodies against EDEM3 protein*, Alexandru Petruta, Simona Ghenea, Stefana Petrescu, 2014.

### Poster presentations

1. Petruta R. Alexandru, Daniela Lixandru, Florin Pastrama, Gabriela Chiritoiu, Stefana M Petrescu, *Role of endoplasmic reticulum resident proteins in insulin biogenesis*, Rom. J. Biochem, Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, September, 2015, Bucharest; „Best Poster” Awards
2. Lixandru Daniela, Mihai Andrada, Stoian Irina, Alexandru Petruța, Carrnicu Simona, Petcu laura, Mitu Manuela, Guja Cristian, Ionescu-Targoviste Constantin, *Lactonase paraoxonase 2 enzymatic activity and anthropometric markers in newly diagnosed type 2 diabetic patients with obesity and metabolic syndrome*, Oxigen Club of California World Congress, 24-26 June, Valencia, Spania, 2015
3. Daniela Lixandru, Simona Carniciu, Petruta Alexandru, Adelina Rosca, Irina Stoian, Bogdan Smeu, Catalin Copaescu, Constantin Ionescu-Targoviste, *Role of adipokines in insulin synthesis and secretion*, 21th European Congress on Obesity (ECO2014) 28-31 May 2014, Sofia, Bulgaria. Abstract published in *Obesity Facts, The European Journal of Obesity* vol.7, Supplement 1, p102; 2014 (T6:PO.005; IF=1.583)
4. D. Lixndru, P. Alexandru, A. Rosca, C. Ionescu-Targoviste, L.I. Brasoveanu, B. Manuel-y-Keenoy, *Decreased Paraoxonase 2 enzymatic activity in peripheral monocyte/macrophages of type 2 diabetic patients*, 11th meeting of the FRS-FNRS Contact group on oxidative stress and antioxidants. 210th meeting of the Belgian Society for Biochemistry & Molecular Biology, 25 April, Liège, Belgia, 2014
5. Petruta R. Alexandru, Gabriela Chiritoiu, Mihaela Uta, Simona Ghenea, Florin Pastrama and Stefana M. Petrescu, *Improved insulin secretion in insulinoma cells by overexpression of proteins involved in ERAD*, The annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, 5-7 June, Oradea, 2014
6. Petruta R. Alexandru, Lixandru Daniela, Stoian Irina, Ionescu-Targoviste Constantin, Petrescu M Stefana - *The role of paraoxonase 2 in insulin synthesis and secretion*, The 39th National Congress of the Romanian Society of Diabetes, Nutrition and Metabolic Diseases with international participation, Sibiu, Romania May 22-25 2013, Abstract published in *Acta Diabetologica Română*, vol 39, ISSN 1584-6571 (FI=0.45)
7. Petruta R. Alexandru, Daniela Lixandru, Bogdana Vargolici, Stefana M. Petrescu. *Down regulation of Syntaxin 4 decreases insulin secretion in  $\beta$ -TC3 cell line*, Medical Journal Supplement – The Annual Congress of the Romanian Medical Association, Bucharest, 2013, „Best Poster” Awards.
8. Petruta R. Alexandru, Petrescu M Stefana, *Molecular Mecanisms of insulin secretion in beta cell lines*, Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, 13-14 September, 2012.

9. Petruta R.Alexandru, Simona Ghenea And Stefana M. Petrescu *Policlonal antibodies against EDEM3 protein*, Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, September 23-25 september, 2010

## Oral presentations

1. Daniela Lixandru, Andrada Mihai, Irina Stoian, Petruta Alexandru, Simona Carniciu, Manuela Mitu, Ariana Picu, Cristian Guja, Constantin Ionescu-Targoviste *The role of paraoxonase (PON2) in modulating the oxidant-antioxidant balance of the peripheral blood mononuclear cells in newly diagnosed type 2 diabetic patients* SFRR-E&SNFS Conference 2015, 1-4 September Stuttgart, Germania, Abstract published in *Free Radical Biology and Medicine* 86 (2015), S4-S18 (FI=5.71)
2. Lixandru Daniela, Alexandru Petruta, Rosca Adelina, Stoian Irina, Copaescu Catalin, Ionescu-Targoviste Constantin, Petrescu M. Stefana – “*The relationship between  $\beta$ -pancreatic cells and adipocytes – the study of paraoxonase 2*”- The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology (RSBMB) & The Conference on Cellular and Molecular Biotechnologies on Medical Applications”, 13-14 september, Bucharest – Abstract published in *Romanian Journal of Biochemistry*, vol. 49, Supplementa, 2012 (CNCSIS B+)
3. Lixandru Daniela, Alexandru Petruta, Rosca Adelina, Stoian Irina, Copaescu Catalin, Ionescu-Targoviste Constantin, Petrescu M Stefana “*The relationship between  $\beta$ -pancreatic cells and adipocytes – the study of paraoxonase 2*”, 13-14 september, 2012 – The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology (RSBMB) & The Conference on Cellular and Molecular Biotechnologies on Medical Applications”, Abstract published in *Romanian Journal of Biochemistry*., 49, Suppl (CNCSIS B+)