

PERSONAL INFORMATION

Dragos Peptanariu

📍 Independentei No.19, 700101 Iasi (Romania)

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Sex Male | Date of birth 14 October 1978 | Nationality Romanian

WORK EXPERIENCE

August 2012 – Present

research assistant

Institute of Macromolecular Chemistry „Petru Poni”
Aleea Grigore Ghica Voda, No.41A, 700487 Iasi (Romania)
<http://www.icmpp.ro/>

member of the project "Biologically inspired systems forengineered structural and functional entities"cod PNII-ID-PCCE-2011-2-0028.

main activities: cell culture, transfection experiments, fluorescence microscopy, cytotoxicity tests.

Business or sector Professional, scientific and technical activities

2010 – 2011

PhD student

University of Medicine and Pharmacy “G. T. Popa”
Str.Universitatii No.16 RO-700115 Iasi (Romania)
<http://www.umfiasi.ro/Pages/Default.aspx>

member of Internal research grant of Medicine and Pharmacy University “G. T. Popa”, Iasi Nr. 7400/2010 "Research on gene polymorphisms aromatase (cyp19a1) as a predictor of efficacy of hormonal therapy in metastatic breast cancer".

main activities: DNA extraction and PCR experiments.

Business or sector Human health and social work activities

01 March 2011 – 30 November 2011

research assistant

Biology Department "Alexandru Ioan Cuza" University of Iasi
Bd. Carol I, No. 11 RO-700506 Iasi (Romania)
<http://www.bio.uaic.ro/>

member of the project PN-II-ID-PCE-2008, Nr. 1990/2008: "Optimization and implementation of molecular biology techniques in detecting hereditary predisposition to breast and ovarian cancer".

main activities: DNA extraction, PCR experiments.

Business or sector Professional, scientific and technical activities

January 2008 – September 2010

PhD student

"Sf. Spiridon" County Clinical Emergency Hospital
Bd. Independentei No. 1 RO-700111 Iasi (Romania)
<http://www.spitalspiridon.ro/>

member of the project PN-II-ID-PCE-2007 "Signaling pathways involved in multiple myeloma-bone marrow stromal cell interaction".

Tasks included:

- cell culture (mesenchymal stem cells isolation, expansion and cryopreservation, myeloma cell lines culture), co-culture experiments.
- flow cytometry.
- PCR, RNA extraction, reverse transcription and qPCR.
- Microarray data analysis.

Business or sector Human health and social work activities

September 2004 – May 2005

Teaching assistant

Department of Molecular Biology and Biochemistry, Wesleyan University
242 Hall-Atwater Laboratory US-06459 Middletown, CT (United States)
<http://www.wesleyan.edu/mbb/>

main activities:

Prepared and taught Molecular Biology and Biology laboratories. Graded homework and exams.

Business or sector Education

01 January 2004 – 30 June 2004

Medical Intern

"Prof. Dr. Nicolae Oblu" Emergency Hospital
Str. Ateneului No. 2 RO-700309 Iasi (Romania)
<http://www.neuroiasi.ro/>

Performed health interviews of patients using standardized questionnaires, carried out exploratory clinical examinations, analyzed data, reviewed medical records, updated and screened subjects.

Business or sector Human health and social work activities

EDUCATION AND TRAINING

29 May 2013 – 31 May 2013

Training Stage

Department for Molecular Biomedical Research Ghent University, Ghent (Belgium)

Skinbad Microscopy Training Course:

basics of microscopy, setting up Kohler illumination, fluorescence microscopy, sample fixation, embedding and sectioning, immunohistochemistry, confocal microscopy, electron microscopy, image processing.

05 November 2012 – 14
November 2012

Training Stage

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

Advanced Study School Cellular and Molecular Approaches for the Progress of the Biomedical Research

01 November 2007 – 29 February
2012

PhD in Medicine

University of Medicine and Pharmacy "G. T. Popa", Iasi (Romania)

Title of thesis: "Study on the Bone Marrow Microenvironment in Multiple Myeloma".

June 2011 – June 2011

Training Stage

Applied Biosystems HID University, Darmstadt (Germany)

Forensic DNA Analysis. Basic HID Training on AB 3500 Genetic Analyzer.

26 September 2008 – 18 October
2008

Training Stage

Department of Hematology/Oncology, Medical Center Freiburg University, Freiburg (Germany)

Analysis of gene expression based on microarray experiments.

Ariadne Pathway Studio training course.

2006 – 2008

Master

Biology Department "Alexandru Ioan Cuza" University, Iasi (Romania)

Biological Procedures in Agri-Food Industry

September 2003 – September 2004

graduate course

Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown (United States)

Learning techniques of molecular biology and cell cultures, relevant projects include:

- Localizing the promoter of a specific Olfactory Receptor gene:

My work consisted of: growing and differentiating OP6 and OP27 cell lines from mice which represent intermediate-late developmental stages of the olfactory receptor neuron lineage, mRNA extraction and purification, reverse transcription, first strand synthesis, gene specific primers designing using BLAST and BLAT, 5' Race PCR, gel extraction, cloning, colony screening, plasmid extraction, data analysis of sequencing products using BLAT and BLAST.

- Testing DNA bending using acrylamide gel electrophoresis:

Electrophoresis can be used for the analysis of variations in DNA conformation and structure, because bent DNA molecules migrate anomalously slower through acrylamide gels. A specific DNA motif was tested for bending and the project involved techniques like: restriction enzyme digest and PCR, acrylamide gel electrophoresis.

Graduate studies on:

- Bio-molecular Structure
- Nucleic Acid Structure
- Protein - Nucleic Acid Interaction
- Bioinformatics and genomics
- Biochemistry and Biophysics
- Molecular Cell Biology

1997 – 2003

Medical Doctor

University of Medicine and Pharmacy “G. T. Popa”, Iasi (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1		C1		C1
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Job-related skills

- Nucleic acid extraction and purification.
- Agarose and acrylamide gel electrophoresis, gel extraction.
- Nucleic acid digestion with restriction enzymes.
- *E. Coli* transformation and molecular cloning.
- PCR, 5' Race PCR, reverse transcription and qPCR.
- Microarray data analysis (software used: Pathway Studio – Ariadne Genomics).
- HID, forensic DNA Analysis.
- Cell culture, flow cytometry, optical microscopy.

Computer skills

Excellent knowledge of Windows environment, proficient in MS Excel, MS Word and MS PowerPoint, experience working with BLAST and BLAT servers on the internet.

ADDITIONAL INFORMATION

Publications

1. Miron L, Negura L, **Peptanariu D**, and Marinca M, *Research on aromatase gene (CYP19A1) polymorphisms as a predictor of endocrine therapy effectiveness in breast cancer*. Revista medico-chirurgicala a Societatii de Medici si Naturalisti din Iasi, 2012. **116**(4):p. 997-1004.
2. **Peptanariu D**, Zlei M, Negura A, and Carasevici E, *Optimization of culture conditions for bone marrow stromal cells in rpmi-1640 medium*. Revista Medico-chirurgicală a Societății de Medici și Naturaliști Iași, 2012. **116**(1): p. 222-227.
3. Goriuc A, Petreus T, **Peptanariu D**, Iancu R, and Costuleanu M, *The influence of Ca²⁺ ionophor ionomycin on the mitochondrial transition permeability pore in normal and drug treated gingival fibroblasts*. Annals of the Romanian Society for Cell Biology, 2011. **15**(2):p. 341-346.
4. Grigore G, Zlei M, **Peptanariu D**, Ivanov I, Ungureanu D, and Carasevici E, *In Vitro Hypoxic Preconditioning of Bone Marrow Stromal Cells Triggers ERK-Mediated Signaling and Growth of L363 Myeloma Cells*. Revista Romana de Medicina de Laborator, 2011. **19**(1):p. 75-84.
5. Negura L, **Peptanariu D**, and Negura A, *Transcripts quantification by using in-house made RT-qPCR standards*. Annals of the "Alexandru Ioan Cuza" University Sect.II a.Genetics and Molecular Biology, 2011. **12**(1): p. 13-18.
6. **Peptanariu D**, Negura L, Pfeifer D, Zlei M, Wider D, Engelhardt M, and Carasevici E, *Microarray analysis reveals pathways and biological processes in myeloma cell line L363 which are influenced by microenvironment*. Annals of the "Alexandru Ioan Cuza" University Sect.IIa.Genetics and Molecular Biology, 2011. **12**(3):p. 75-82.
7. **Peptanariu D**, Pfeifer D, Zlei M, Negura L, Petreus T, Wider D, Engelhardt M, and Carasevici E, *The influence of bone marrow stromal cells on matrix metalloproteinases expression in myeloma cell line L 363*. Revista Română de Medicină de Laborator, 2011. **19**(4): p. 359-366.
8. Vicolleanu SP, Petreus T, Andritoiu CV, and **Peptanariu D**, *The inflammatory microenvironment and the breast tumor tissue: the role of t-lymphocyte*. Annals of the Romanian Society for Cell Biology, 2011. **16**(1): p. 278-282.
9. Negura A, Negura L, Coneac A, **Peptanariu D**, Uhrhammer N, and Bignon Y-J, *Using heteroduplex analysis by mismatch-specific endonuclease for the detection of BRCA mutations and SNPs*. European Journal of Human Genetics, 2010. **19**(Supplement 2): p. 193.
10. Petreus T, Cotrutz CE, Neamtu A, Oprea A-M, Tudoran LB, Zlei M, Goriuc A, and **Peptanariu D**, *Anti-tumor potential of some new synthesized dihydroxamic compounds*. Annals of the Romanian Society for Cell Biology, 2010. **15**(2): p. 368-372.
11. Zlei M, Grigore G, **Peptanariu D**, Constantinescu D, Cianga C, Carasevici E, and Engelhardt M, *Alternative Fixation Method Improves Flow Cytometry - Assisted Phospho-Detection Competence*. Revista Română de Medicină de Laborator, 2010. **18**(4):p. 55-65.