

## PERSONAL INFORMATION

Otilia Tamara Antal



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POSITION Molecular Biologist/ Research Associate

## WORK EXPERIENCE

01/12/2014–Present **Molecular biologist/ Research Associate; Scientific Assistant until the 9th of September 2016**

National Agricultural Research and Innovation Centre – Food Science Research Institute (NARIC-FSRI) - Department of Nutritional Physiology, Budapest (Hungary)

Main activities and responsibilities: maintaining microbiological strains; detection of bacteria in a selective manner; estimating colony-forming units by absorbance; and also determining it by microbiological methods ; designing, executing and interpreting experiments; designing and implementing of in vitro digestion models; in vitro digestion of samples with the NARIC-FSRI model and the COST Infogest international protocol; measuring the activity of digestive enzymes; analytical analysis of different samples; acquisition of laboratory equipment and reagents; guidance of BsC and MsC students, who have to perform their laboratory practice at the Department of Nutritional Physiology; collecting and analyzing published scientific data.

01/10/2011–30/08/2014 **Molecular biologist/ PhD fellow at the Biological Doctoral School (University of Szeged, Faculty of Science and Informatics)**

Ministry of National Resources, Szeged (Hungary)

Main activities and responsibilities: isolation of DNA, RNA and microRNA from different cell lines and tissue samples; screening for *Mycoplasma*; measuring gene and miRNA expression; designing projects based on scientific literature; interpreting results of experiments; writing scientific papers.

01/10/2010–31/08/2011 **Molecular biologist /Student of an International Training Course (ITC)**

Hungarian Academy of Sciences - Biological Research Centre, Szeged (Hungary)

Main activities and responsibilities: maintaining and crossing of *Drosophila* strains to assess morphological lesions; generating and maintaining primary nervous cell cultures from brains of *Drosophila* pupae; immunocytochemistry; analysis of samples by confocal microscope.

## EDUCATION AND TRAINING

01/09/2011–02/06/2016 **PhD**

[ISCED 6] The second level of higher education

Faculty of Science and Informatics of the University of Szeged, Szeged (Hungary)

Thesis title: "The effect of unsaturated fatty acids and radiation on human glioma cells: morphological, biochemical and gene expression analysis" Scientific supervisor: Dr. László Puskás.

Main subjects: Molecular cell biology; Cell communication; Functioning and role of RNA silencing; Exciting trends in cellular and molecular biology; Borders of molecular biology; Advances in genetics; Biotechnology from a business standpoint; Companion and laboratory animals in the viewpoint of vet and justice expert.

01/10/2010–31/08/2011 **International Training Course on Selected Topics of Modern Biology**

Hungarian Academy of Sciences Biological Research Centre, Szeged (Hungary)

01/10/2008–10/07/2010

**Molecular biologist**

Master

Babeş-Bolyai University, Faculty of Biology and Geology, Cluj-Napoca (Romania)

Thesis title: "Immunogen production from an anti-inflammatory drug". Scientific supervisor: Mircea Teodor Chiriac lecturer PhD, scientific consultants: Florin-Dan Irimie Professor PhD Eng., Monica-Ioana Toşa Associate Professor PhD Eng.

Main subjects: Recombinant DNA Technology; Molecular Genetics and Biotechnology; Bioinformatics; Advanced Enzymology; Genome Structure and Evolution; Biomembranes, Transport and Cellular Energetics; Molecular Microbiology; Cell culture; Cellular signalling; Molecular Immunology.

01/10/2004–10/07/2008

**Biology**Bachelor in Biology-  
Long-term higher  
education

Babeş-Bolyai University, Faculty of Biology and Geology, Cluj-Napoca (Romania)

Thesis title: Evaluation of the toxicity of some cyanobacterial extracts on Chinese Hamster Oocytes". Scientific supervisor: Ferenc Kósa PhD, Scientific consultants: Mariann Gácsi PhD, János Gyóri PhD.

Main subjects: Applied Mathematics in Biology; Inorganic and Organic Chemistry; General Cytology; Cellular and Molecular Biology; Morphology and Anatomy of Plants; Systematic Botany and Zoology; Embryology; Animal Histology; Biophysics; Biochemistry; Human Anatomy; Comparative Anatomy of Vertebrates; Animal and Human Physiology; Plant Physiology; Genetics; Microbiology; Biotechnology; Haematology; Immunology; General Ecology; Ethology; Educational Psychology; Pedagogy.

**PERSONAL SKILLS**

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C1	C1	C2	C2
Language Competence Certificate, University of Cambridge, ESOL examinations, Certificate in Advanced English (Council of Europe Level C1), Certificate number: 0027262598					
Romanian	C2	C2	C2	C2	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

During my academic studies I also gained a degree in **Pedagogy**, due to which I was authorized to teach biology in primary- and high-schools. These studies prove that I have good communication skills.

Organisational / managerial skills

As a Research Associate I have guided the experimental activity of several MsC and BsC students, in the laboratory of the Department of Nutritional Physiology.

Job-related skills

Scientific result: 6 articles that were published in international refereed professional journals (accumulated IF: 19,838; H-index: 4; independent citations: 59). Altogether: 23 statements (including the non IF and scientific articles, posters and oral presentations).

Research projects:

- ED019 project (2017-): "Elaboration of digestion models for the development of functional foodstuffs.", supporter: Ministry of Agriculture, participant.
- AGR-PIAC-13 project (2014-2016): „Determination of special flour-mixture based paste types with high added value, clinically tested health protective properties, enriched with unique agent-combination by application of novel analytical and technological processes", supporter: National Research, Development and Innovation Office, participant.
- GOP 1.1.1.11-2012-0485. project (2014-2015): „Development of mineral water product family having health protecting attributes, which are proved by human clinical studies. These newly developed products will contain specific bioactive components in forms of micro capsules", supporter: Ministry of National Development, participant.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

Digital competences - Self-assessment grid

Professional certificate, 2004, "Ady Endre" High School Computer utilization skills and intermediate level of computer programming skills, serial number: A nr0040528

Driving licence B