



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Biotecnologie Mediche e Medicina Traslazionale

Scientist- in - charge: Prof. Massimo Aureli

[Olga Utyro]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Utyro
Name	Olga
Date of birth	27.10.1988

PRESENT OCCUPATION

Appointment	Structure
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EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree			
Specialization			
PhD	Chemical Sciences, discipline: Biochemistry	Institute of Bioorganic Chemistry Polish Academy of Sciences, Poznań, Poland	2020
Master	Molecular Biotechnology and Biocatalysis	Faculty of Chemistry, Wroclaw University of Science and Technology, Poland	2013
Degree of medical specialization			
Degree of European specialization			
Other	Training: Wykrywanie wirusów techniką	Main Inspectorate of Plant Health and	2011



	immunoenzymatyczną ELISA (ang. Detection of viruses by ELISA)	Seed Inspection Central Laboratory	
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REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
2019	Polish Biochemical Society	Warsaw

FOREIGN LANGUAGES

Languages	level of knowledge
English	B2 (certificate)
Italian	A1

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2016	PRELUDIUM 9 - 3 years grant for young scientist, National Science Centre, Poland: Structure and function of Glod4 protein
2019	Best poster award - Homocysteine Mini-Conference, Poznań, Poland, Poznań University of Life Sciences
2019	Late PTBioch Bursary from Polish Biochemical Society
2018	Professor Waclaw Szybalski Foundation Award for The Best Poster Congress Bio2018, Gdańsk, Poland

TRAINING OR RESEARCH ACTIVITY

description of activity: Department of Microbiology, Biochemistry and Molecular Genetics, Rutgers-New Jersey Medical School, Newark, NJ, USA - 4 months fellowship

- SARS-CoV-2 virus identification testing
- mRNAs, telomeres and mtDNA quantification by qPCR
- proteins expression quantification by Western blot (WB)
- genotyping by PCR, RLFP and AS-PCR
- beta-galactosidase in tissue assays
- cloning and expression of mouse Glod4 protein in *E. coli*
- cell cultures (cell passaging, banking)
- work with laboratory mice (incl. tissue collection & genotyping), PolLASA certificate, Rutgers certificate
- basics of: antibody preparation in rabbit, 2D electrophoresis, methylation-specific PCR (MSP), homocysteine quantification by HPLC, Statistica software
- paraoxonase activity of Pon1 in serum test
- basics of: brain immunohistochemistry



- electrophoretic mobility shift assay (EMSA), P1 nuclease assay
- purification of recombinant proteins on using Ni-NTA resin
- construction of vectors, bacterial cultures, cloning in a prokaryotic system
- detection of viruses, viroids, phytoplasmas by PCR (IC-RT-PCR, one-step PCR, nPCR) and ELISA
- knowledge of ISO 17025 setting out the requirements for testing and standard laboratory

TEACHING EXPERIENCE

Co-supervisor in student project "Effect of homocysteine on mRNA expression and phosphorylation of selected ribosomal proteins and kinases Snf1 and Ypk3 in *Saccharomyces cerevisiae*.", in the field of qPCR.

Co-conducting of academic laboratory course: Enzymology, in Poznań University of Life Sciences, one semester

Demonstrations for teenagers: "We are looking for a needle in a haystack, i.e. we learn the Western blot method", Poznań University of Life Sciences

PROJECT ACTIVITY

Year	Project
2017-2018	Autoimmune response and lysis of fibrin clots in cardiovascular diseases
2018	Quantitative proteomics in yeast model of hyperhomocysteinemia
2016-2020	Structure and function of Glod4 protein, PI

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
2019	Homocysteine Mini-Conference	Poznań, Poland
2019	The FEBS Congress	Kraków, Poland
2018	3rd Congress of Polish Biosciences BIO2018	Gdańsk, Poland
2017	11th International Conference on Homocysteine and One Carbon Metabolism	Aarhus, Denmark
2014	BIO 2014 Congress	Warsaw, Poland
2014	FASEB conference: Folic Acid, Vitamin B12, and One Carbon Metabolism	Steamboat Springs, Colorado, USA
2013	Young Biotechnologists Forum in Institute of Immunology and Experimental Therapy Polish Academy of Sciences	Wrocław, Poland

PUBLICATIONS

Books
[title, place, publishing house, year ...] -



Articles in reviews
Utyro O, Perla Kaján J, Kubalska J, Graban A, Jakubowski H, 2020, Telomere Length and mtDNA Copy Number in Human Cystathionine β -synthase Deficiency, Free Radic Biol Med, 160, pp. 219-226. IF = 6.17
Utyro O, Perla-Kajan J, Jakubowski H, 2020, The Cbs Locus Affects the Expression of Senescence Markers and mtDNA Copy Number, but not Telomere Dynamics in Mice, Int. J. Mol. Sci. Jan;21(7):2520. IF = 4.556
Perla-Kajan J, Utyro O, Rusek M, Malinowska A, Sitkiewicz E and Jakubowski H, 2016, N-Homocysteinylation impairs collagen cross-linking in cystathionine β -synthase-deficient mice: a novel mechanism of connective tissue abnormalities. FASEB J, 30(11), pp.3810-3821. IF = 5.06
Suszyńska-Zajczyk J, Wróblewski J, Utyro O, Łuczak M, Marczak Ł & Jakubowski H, 2014, Bleomycin hydrolase and hyperhomocysteinemia modulate the expression of mouse proteins involved in liver homeostasis. Amino Acids, 46(6), pp.1471-1480. IF = 3.657
Suszyńska-Zajczyk J, Utyro O and Jakubowski H, 2014, Methionine-induced hyperhomocysteinemia and bleomycin hydrolase deficiency alter the expression of mouse kidney proteins involved in renal disease. Molecular genetics and metabolism, 112(4), pp.339-346. IF = 2.625

Congress proceedings
[title, structure, place, year]

OTHER INFORMATION

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Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Poznań, 05.10.2020

SIGNATURE