

NATALIA JUDIT TOKESI

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WORK HISTORY

SENIOR RESEARCH FELLOW 05/2023 to Current **Institute of Material and Environmental Chemistry, Research Centre for Natural Sciences, HUN REN**

POSTDOCTORAL RESEARCH FELLOW 01/2014 to 04/2023
Institute of Enzymology, Hungarian Academy of Sciences, Active Transport Research Group

VISITING RESEARCH FELLOW 06/2022 to 08/2022
Queen's University, School of Medicine, Dentistry and Biomedical Sciences Wellcome Wolfson Institute, Belfast, Northern Ireland

RESEARCH FELLOW 01/2012 to 12/2013
Institute of Enzymology, Hungarian Academy of Sciences, Cell Architecture Research Group

JUNIOR RESEARCH FELLOW 01/2002 to 12/2011
Institute of Enzymology, Hungarian Academy of Sciences, Cell Architecture Research Group

TECHNICIAN 01/2001 to 12/2001
Department of Physiology and Neurobiology, Eötvös Loránd Science University

EDUCATION

Ph.D. : Cell Biology, **08/2012**
Eötvös Loránd Science University - Budapest, Hungary

Master of Science : Biology, **08/2004**
Eötvös Loránd Science University - Budapest, Hungary

Bachelor of Science : Environmental Protection, Hidrobiology, **08/2001**
Berzsenyi Dániel College - Szombathely, Hungary

Bachelor of Science : Biology , **08/2000**
Berzsenyi Dániel College - Szombathely, Hungary

GRANTS

2023 Postdoctoral researcher position

by: University of Hawaii at Manoa, John A. Burns School of Medicine, Department of Anatomy, Biochemistry, and Physiology

-not started

2022 Research Fellow position

by: Queen's University, School of Medicine, Dentistry and Biomedical Sciences (Wellcome-Wolfson Institute for Experimental Medicine)

-not started

2017 - 2020 **Postdoctoral Research Grant** by: National Research, Development and Innovation Office

1999 - 2000 **Fellowship of the Hungarian Republic** to support outstanding students by: Ministry of Education, Hungary

AWARDS

2012 **Best Poster Award** by: Research Centre for Natural Sciences of the Hungarian Academy of Sciences

2011 **Best Poster Award** by: European Biophysical Societies' Association

2007 **Junior Researcher Award** by: Hungarian Academy of Sciences

SCIENTOMETRIC DATA

Up to 17.05.2024

Number of independent citations: 567

Number of journal articles in the first quarter (Q1) of the journal ranking list of the discipline: 22

Number of journal articles in the top 10% (D1) of the journal ranking list of the discipline:

10

SELECTED PUBLICATIONS

2023

Eszter Kozák , Jonas W Bartstra , Pim A de Jong, Willem P T M Mali, Krisztina Fülöp, **Natália Tőkési**, Viola Pomozi, Sara Risseuw, Jeannette Ossewaarde-van Norel, Redmer van Leeuwen , András Váradí, Wilko Spiering Plasma Level of Pyrophosphate Is Low in Pseudoxanthoma Elasticum Owing to Mutations in the ABCC6 Gene, but It Does Not Correlate with ABCC6 Genotype J CLIN MED

2022

Bakos Eva, Nemet Orsolya, Kucsma Nora, **Tőkési Natália**, Stieger, Bruno Rushin Elisabeth, Tokes Anna-Maria, Peter, Tusnady Gabor E. , Ozvegy-Laczka Csilla: Cloning and characterization of a novel functional organic anion transporting polypeptide 3A1 isoform highly expressed in the human brain and testis FRONTIERS IN PHARMACOLOGY

2021

Kozák Eszter, Fülöp Krisztina, **Tőkési Natália**, Rao Nidhi, Li Qiaoli, Terry Sharon F., Uitto Jouni, Zhang Xiaoming, Becker Cyrus, Váradi András, Pomozi Viola: Oral supplementation of inorganic pyrophosphate in pseudoxanthoma elasticum, EXPERIMENTAL DERMATOLOG

2020

Tőkési N., Kozák E., Fülöp K., Dedinszki D., Hegedűs N., Király B., Szigeti K., Ajtay K., Jakus Z., Zaworski J., Letavernier E., Pomozi V., Váradi A.: Pyrophosphate therapy prevents trauma-induced calcification in the mouse model of neurogenic heterotopic ossification, JOURNAL OF CELLULAR AND MOLECULAR MEDICINE

2019

Pomozi V, Julian CB, Zoll J, Pham K, Kuo S, **Tőkési N**, Martin L, Váradi A, Le Saux O: Dietary Pyrophosphate Modulates Calcification in a Mouse Model of Pseudoxanthoma Elasticum: Implication for Treatment of Patients. J INVEST DERMATOL

Väärämäk Suvi ; Uusitalo Hannu ; **Tőkési Natália**; Pelttari Saku ;Váradi András ; Nevalainen Pasi. Pyrophosphate Treatment in Pseudoxanthoma Elasticum (PXE) Preventing ReOcclusion After Surgery for Critical Limb Ischaemia SURGICAL CASE REPORTS

2017

Dóra Dedinszki; Flóra Szeri; Eszter Kozák, Viola Pomozi; **Natalia Tőkési**; Tamás Róbert Mezei; Kinga Merczel; Emmanuel Letavernier; Ellie Tang; Olivier Le Saux; Tamás Arányi; Koen van de Wetering; András Váradi: Oral Pyrophosphate is Absorbed and Inhibits Connective Tissue Calcification EMBO MOLECULAR MEDICINE

2014

Tőkési Natália, Oláh Judit, Hlavanda Emma, Szunyogh Sándor, Szabó Adél, Babos Fruzsina, Magyar Anna, Lehotzky Attila, Vass Elemér, Ovádi Judit: Identification of motives mediating alternative functions of the neomorphic moonlighting TPPP/p25, BBA-MOL BASIS DIS

2013

Oláh J, **Tőkési N**, Lehotzky A, Orosz F, Ovádi J: Moonlighting microtubule associated proteins: Physiological functions by day and pathological functions at night. CYTOSKELETON

2011

Oláh J, Vincze O, Virók D, Simon D, Bozsó Z, **Tőkési N**, Horváth I, Hlavanda E, Kovács J, Magyar A, Szűcs M, Orosz F, Penke B, Ovádi J: Interactions of pathological hallmark proteins: Tubulin polymerization promoting protein/p25, {beta}-amyloid and {alpha}synuclein., J BIOL CHEM

2010

Lehotzky A, Lau P, **Tőkési N**, Muja N, Hudson LD, Ovádi J: Tubulin polymerization promoting protein (TPPP/p25) is critical for oligodendrocyte differentiation., GLIA

Tőkési Natália, Lehotzky Attila, Horváth István, Szabó Bálint, Oláh Judit, Lau Pierre, Ovádi Judit: TPPP/p25 promotes tubulin acetylation by inhibiting histone deacetylase 6., J BIOL CHEM

2007

Hlavanda E, Klement E, Kokai E, Kovacs J, Vincze O, **Tőkési N**, Orosz F, Medzihradsky KF, Dombradi V, Ovadi J: Phosphorylation blocks the activity of tubulin polymerization promoting protein (TPPP): Identification of sites targeted by different kinases, J BIOL CHEM

2006

Oláh J, **Tőkési N**, Vincze O, Horváth I, Lehotzky A, Erdei A, Szájli E, Medzihradsky KF, Orosz F, Kovács G G, Ovádi J: Interaction of TPPP/p25 protein with glyceraldehyde-3phosphate dehydrogenase and their co-localization in Lewy bodies, FEBS LETT

Vincze O, **Tőkési N**, Oláh J, Hlavanda E, Zotter A, Horváth I, Lehotzky A, Tirián L, Medzihradsky FK, Kovács J, Orosz F, Ovádi J: TPPP proteins: members of a new family with distinct structures and functions, BIOCHEMISTRY-US

2004

Lehotzky A, Tirián L, **Tokesi N**, Lenart P, Szabo B, Kovacs J, Ovadi J: Dynamic targeting of microtubules by TPPP/p25 affects cell survival, J CELL SCI

LANGUAGES

Hungarian: Native language

English:

B2

Spanish:

A2

Upper intermediate

Elementary

MATERNITY LEAVE

2015-08-15 - 2016-09-12