Dénes Türei

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EMBL, Gavin group
Meyerhofstrasse 1
69117 Heidelberg, Germany

CITIZENSHIP   Hungary

DATE AND PLACE OF BIRTH   25 April 1987, Budapest, Hungary

RESEARCH INTERESTS

- Cellular signaling and regulation
- Cellular lipid homeostasis
- Regulation of autophagy
- Biochemical and ecological networks

EDUCATION AND RESEARCH

Postdoc • **University Hospital Heidelberg** & **EMBL** Heidelberg   **from July 2019**

Postdoc • **University Hospital RWTH Aachen** & **EMBL** Heidelberg   **Sept 2017–June 2019**

ElPOD fellow • **EMBL-EBI** Hinxton & **EMBL** Heidelberg   **May 2014–June 2017**

- Group leaders: Julio Saez-Rodriguez and Anne-Claude Gavin
- Comprehensive analysis of literature curated signaling pathway data
- High-throughput screening of lipid binding properties and membrane affinities of human lipid transfer proteins
- Developing methods for measurement of autophagy in microfluidics

Ph.D. Molecular Medicine • **Semmelweis University** Budapest   **May 2014**

- Thesis Topic: Building a complex signaling and regulatory network, and it's application in discovering the regulation of NRF2, an antioxidant transcription factor
- Advisors: Peter Csermely and Tamas Korcsmaros

M.S., Biology • **Eötvös Loránd University** Budapest   **January 2012**

- Specialization: Evolutionary Biology, Ecology and Taxonomy
- Thesis Topic: Diversity measurement and comparison in hydrobiological mesocosm ecosystems
- Advisor: Levente Hufnagel

PROFESSIONAL EXPERIENCE

Research   **June 2004 to present**

- Programming (Python, R, PHP, JavaScript, Bash, MySQL, LaTeX, HTML)
- Computational analysis of molecular biology data
- Analysis of LC MS/MS lipidomics data
- Molecular biology prior knowledge integration for systems level analysis and modeling
- Tissue culture, transformation, high-content microscopy, microfluidics
- Freshwater mesocosm experiments, determination of freshwater algae and copepods

Teaching

- Bioinformatics topics for pre-docs at EMBL-EBI and Earlham Institute   **2015–2019**
- Bioinformatics for Master students in biology (approx 100 students per year), Eötvös Loránd University   **Sept 2012–May 2014**

SELECTED PUBLICATIONS (5 OF 20)   All publications: goo.gl/Y9FFz4

1. Türei D, Korcsmáros T, Saez-Rodriguez J (2016). OmniPath: guidelines and gateway for literature-curated signaling pathway resources. *Nat. Methods* 13(12):966-967. (IF: 25.33)

2. Türei D, Földvári-Nagy L, Fazekas D, Módos D, Kubisch J, Kadlecsik T, Demeter A, Lenti K, Csermely P, Vellai T, Korcsmáros T (2015). Autophagy Regulatory Network–A systems-level bioinformatics resource for studying the mechanism and regulation of autophagy. *Autophagy* 11(1):155-165. (IF: 11.75)

3. Papp D, Lenti K, Módos D, Fazekas D, Dúl Z, Türei D, Földvári-Nagy L, Nussinov R, Csermely P, Korcsmáros T (2012). The NRF2-related interactome and regulome contain multifunctional proteins and fine-tuned autoregulatory loops. *FEBS Lett.* 586(13):1795–1802. (IF: 3.54)

4. Fazekas D*, Koltai M*, Türei D*, Módos D, Pálfy M, Dúl Z, Zsákai L, Szalay-Bekő M, Lenti K, Farkas IJ, Vellai T, Csermely P, Korcsmáros T (* – equal contributions; 2013). SignaLink 2 – A signaling pathway resource with multi-layered regulatory networks. *BMC Systems Biology* 2013, 7:7. (IF: 3.15)

5. Kubisch J, Türei D, Földvári-Nagy L, Dunai Zs, Zsákai L, Varga M, Vellai T, Csermely P, Korcsmáros T (2013). Complex regulation of autophagy in cancer – Integrated approaches to discover the networks that hold a double-edged sword. *Seminars in Cancer Biology*, in press (IF: 7.43)