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CITIZENSHIP	Hungary	
BIRTH	25 April 1987, Budapest, Hungary	
RESEARCH INTERESTS	<ul style="list-style-type: none"> • Cellular signalling and regulation • Cellular lipid homeostasis • Regulation of autophagy • Scientific software development 	
EDUCATION AND RESEARCH	Postdoc • University Hospital Heidelberg & EMBL Heidelberg	from July 2019
	Postdoc • University Hospital RWTH Aachen & EMBL Heidelberg	Sept 2017–June 2019
	EIPOD fellow • EMBL-EBI Hinxton & EMBL Heidelberg	May 2014–June 2017
	<ul style="list-style-type: none"> • Group leaders: Julio Saez-Rodriguez, Anne-Claude Gavin and Christoph Merten • Prior knowledge management framework for supporting biomedical data analysis and mechanistic modelling • High-throughput screening of lipid binding properties and membrane affinities of human lipid transfer proteins • Microfluidics technology development for <i>ex-vivo</i>, combinatorial drug screening 	
	Ph.D. Molecular Medicine • Semmelweis University Budapest	May 2014
	<ul style="list-style-type: none"> • Thesis topic: Building complex signalling and regulatory networks, and showcasing their application on NRF2 signalling • Advisors: Peter Csermely and Tamas Korcsmaros 	
	M.S., Biology • Eötvös Loránd University Budapest	January 2012
	<ul style="list-style-type: none"> • Specialization: Evolution, Ecology and Systematics • Thesis topic: Diversity analysis in freshwater mesocosm ecosystems • Advisor: Levente Hufnagel 	
PROFESSIONAL EXPERIENCE	<i>Research</i>	June 2004 to present
	<ul style="list-style-type: none"> • Software development (Python, R, PHP, JavaScript, Linux, SQL, Neo4j, \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 modelling • Tissue culture, transformation, high-content microscopy, microfluidics • Freshwater mesocosm experiments, determination of freshwater algae and copepods 	
	<i>Teaching</i>	
	<ul style="list-style-type: none"> • Bioinformatics topics for pre-docs at EMBL-EBI and Earlham Institute • Bioinformatics for Master students in biology (approx. 100 students per year), Eötvös Loránd University 	2015–2019 Sept 2012–May 2014
SELECTED PUBLICATIONS (5 OF 30)	<p>All publications: goo.gl/Y9FFz4</p> <ol style="list-style-type: none"> 1. Túrei D, Korcsmáros T, Saez-Rodriguez J (2016). OmniPath: guidelines and gateway for literature-curated signaling pathway resources. <i>Nat Methods</i> 13(12):966-967. 2. Túrei D, Valdeolivas A, Gul L, Palacio-Escat N, Klein M, Ivanova O, Ölbei M, Gábor A, Theis F, Módos D, Korcsmáros T, Saez-Rodriguez J (2021). Integrated intra- and intercellular signaling knowledge for multicellular omics analysis. <i>Mol Syst Biol</i> 17(3):e9923. 3. Dimitrov D, Túrei D, Garrido-Rodriguez M, Burmedi PL, Nagai JS, Boys C, Ricardo ORF, Kim H, Szalai B, Costa IG, Valdeolivas A, Dugourd A, Saez-Rodriguez J (2022). Comparison of methods and resources for cell-cell communication inference from single-cell RNA-Seq data. <i>Nat Commun</i> 13:3224. 4. Túrei D, Földvári-Nagy L, Fazekas D, Módos D, Kubisch J, Kadlecik 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. <i>Autophagy</i> 11(1):155-165. 5. Utharala R, Grab A, Vafaizadeh V, Peschke N, Ballinger M, Túrei D, Tüchler N, Ma W, Ivanova O, Gil OA, Saez-Rodriguez J, Christoph AM (2022). A microfluidic Braille valve platform for on-demand production, combinatorial screening and sorting of chemically distinct droplets. <i>Nat Protoc</i> 17:2920–2965. 	