

ZSOFIA SZTUPINSZKI, M.D., Ph.D.

PROFESSIONAL EXPERIENCE

Harvard Medical School, US, *Research Fellow* 2021-present

Boston Children's Hospital, Computational Health Informatics Program, US, *Postdoctoral Research Fellow* 2020-present

- **Facilitated collaborations** and published 7 papers with experimental labs, clinical experts from Brigham and Women's Hospital, Harvard Medical School, Dana-Farber Cancer Institute, Broad Institute of MIT

Danish Cancer Society Research Center, *Postdoctoral Research Fellow* 2018-present

- **Managed a team of 3 working on developing machine learning methods** for image analysis (neural networks) to predict clinical properties and prognosis from pathological (histological) images
- **Invented a method to detect** Nucleotide Excision Repair-deficiency in prostate and bladder cancer.
- Published 19 papers

Technical University of Denmark, *Postdoctoral Research Fellow* 2017-2018

- Published 3 papers and **developed a bioinformatic** method estimating the level of homologous recombination deficiency in clinical samples. **This method is utilized or cited in more than 200 publications**

Herlev Hospital, Denmark, *Bioinformatician* 2016-2018

- **Identified predictive biomarkers** in colon and pancreatic using liquid biopsies (miRNA and proteins) and built **predictive models** and published the results in 3 papers

Semmelweis University, Hungary, *PhD Fellow* 2013-2017

- Characterized gene expression-based colon cancer classification models and published 7 papers
- **Implemented new methods in the lab** for cell culture experiments to determine the drug-sensitivity on cancer cell lines

EDUCATION

Semmelweis University, Ph.D. in Oncology & Pathology, Budapest, Hungary 2017

Semmelweis University, Medical Doctor, Budapest, Hungary 2013

LEADERSHIP & VOLUNTEERING EXPERIENCE

- **Supervised** 2 undergraduate and 3 graduate students
- **Winter Hiking Leader**, MIT Outing Club (MITOC) 2022-present
 - Organized and lead hikes, introducing new hikers to winter hiking in the White Mountains
- **Volunteer Student Worker**, Military Hospital, Hungary, Cardiology 2010-2012
 - Enrolled patients into heart disease study, collected samples and analyzed them

PUBLICATION SUMMARY & PATENTS

- **Publications: 47**, including **Science** and **Clinical Cancer Research**, total citations: 1423
- **US Patent:** WO2021195390A2, Method for treating cancer

AWARDS & PROFESSIONAL DEVELOPMENT

- **Selected awards & grants:** Danish Cancer Soc. grant, ESMO grant, Hungarian National Excellence
- **Training Courses:** CURE Mentor Training, Harvard, 2022; Google Project Management Professional Certificate, Coursera, 2022; BioBusiness Summer School, Copenhagen, Denmark, 2019; Experimental animals course, 2014; Quantitative Modelling Course, 2012
- **Languages:** Hungarian (native), English (fluent), Danish (basic)
- **Technical Skills:** R, Bash scripting for HPC, biomarker discovery, and machine learning
- **Interests:** Hiking (completed a 62-mile trek in 23 hours), cycling (average over 2,200 miles/year)