# Tanmay Tanna

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## EDUCATION

### ETH ZURICH

MSc in Biology | Major: Molecular Health Sciences — 2016 – 2019
Zurich, Switzerland — Cum. GPA: 5.5/6.0
Inlaks Shivdasani Foundation fellow

### WARSAW UNIVERSITY OF LIFE SCIENCES

Erasmus Mundus exchange fellow — 2014 – 2015
Warsaw, Poland

### NATIONAL INSTITUTE OF TECHNOLOGY

Bachelor of Technology in Biotechnology — 2011 – 2015
Warangal, India — Cum. GPA: 8.88/10.0

## RELEVANT RESEARCH EXPERIENCE

### LABORATORY FOR BIOLOGICAL ENGINEERING — Dec 2018 - ongoing

Research Assistant | D-BSSE, ETH Zurich
Computational analyses and modeling of transcriptional recordings using CRISPR spacer acquisition from RNA

### LABORATORY FOR BIOLOGICAL ENGINEERING — April 2018 - Nov 2018

Master's Thesis | D-BSSE, ETH Zurich
Development and applications of transcriptional recordings using CRISPR RNA acquisition

### ALLAIN LAB — Nov 2017 - Feb 2018

Research Assistant | IMBB, ETH Zurich
Novel statistical and machine learning approaches to NMR spectral data analysis

### GROUP CIAUDO — July 2017 - Oct 2017

Research Project | IMHS, ETH Zurich
Computational analysis of alternative splicing in time-series RNA-seq datasets

### ALLAIN LAB — Jan 2017 - April 2017

Research Project | IMBB, ETH Zurich
Investigation of novel therapeutic strategies against Spinal Muscular Atrophy that target SMN2 exon7 splicing regulation

### DEPARTMENT OF PLANT BIOTECHNOLOGY — Jan 2015 - July 2015

Bachelor's Thesis | Warsaw University of Life Sciences
Identification and sequencing of candidate ms8 male sterility genes in the sweet pepper *Capsicum annuum* L.

### DIVISION OF INFORMATION SYSTEMS AND DATA ANALYSIS — April 2015 - June 2015

Research Project | Warsaw University of Life Sciences
Mathematical modeling of bioreactor flow systems

### DEPARTMENT OF PLANT PHYSIOLOGY — Oct 2014 - Dec 2014

Research Project | Warsaw University of Life Sciences
Statistical analysis of health biomarkers for early diagnoses in nitrogen and magnesium deficient plants

### LABORATORY OF GENOME STRUCTURE AND FUNCTION — April 2014 - July 2014

Research Intern | University of Tokyo
Experimental and computational analysis of ChIP-Seq bias caused by PCR amplification

## AWARDS AND SCHOLARSHIPS

- **Inlaks Shivdasani Foundation scholarship** for exceptional Indian students at top global institutions — 2016–2018
- **Erasmus Mundus EUPHRATES grant** for 10-month student exchange — 2014–2015
- **University of Tokyo research grant** for short term internship — 2014
- **NIT merit scholarship** for excellent academic performance — 2011 – 2014

## SKILLS

### PROGRAMMING

| Advanced | Intermediate | Familiar |
|---|---|---|
| R • Python • Shell | Matlab • LaTeX • HTML5 • Git | C++ • MySQL |

### EXPERIMENTAL TECHNIQUES

NGS (Illumina) library preparation and sequencing • NMR spectroscopy and data analysis • ChIP-seq • FISH • qPCR and PCR optimization • molecular karyotyping • mammalian cell culture

### OTHER COMPUTATIONAL TOOLS

Adobe Photoshop • Illustrator • After effects

### LANGUAGES

**Fluent in** English • Hindi • Gujarati

## PUBLICATIONS

### JOURNAL

[1] Tanna T*, Schmidt F*, Cherepkova MY, Okiniewski M, and Platt RJ. Recording transcriptional histories using record-seq. *Nature Protocols*, in press.

[2] Tanna T and Sachan V. Mesenchymal stem cells: Potential in treatment of neurodegenerative diseases. *Current Stem Cell Research and Therapy*, 2014, 9, 513-521.

[3] Mistri M, Patel H, Tanna T, and et al. Prenatal diagnosis of autosomal recessive osteopetrosis: a case report. *Molecular Cytogenetics*, 2014, 7(Suppl 1): I2.

### CONFERENCE PAPERS AND OTHER PUBLICATIONS

[1] Tanna T (2019). Recording cellular memories. *TheScienceBreaker* 05. 10.25250/thescbr.brk216

[2] Tanna T, Kalaji HM. Early response of photosynthetic apparatus efficiency to nitrogen deficiency in radish plants. *Photosynthesis Research for Sustainability – 2015*, Greece

[3] Tanna T, Borowski P. Social and legal overview of GM crops in an Indian scenario *XXIV International Scientific Students' Conference - 2015*, Warsaw University of Life Sciences [awarded 2nd prize for oral presentation]

## OTHER ACADEMIC ACHIEVEMENTS

Received award for best bachelor's project (2015) at the Department of Biotechnology, NIT Warangal • General GRE Test score: $335/340$ • Ranked amongst top $0.2\%$ in All India Engineering Entrance Examination 2011 • National-level gold medal in All India Environment Awareness Competition held by Jim Corbett National Park (2005)