

Ona Marija Singh's resume

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2022-07-11

Aside

Contact Info

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Last updated on 2022-07-11.

Main

Ona Marija Singh

Education

Hannover Medical School

PhD in Molecular Medicine

Hannover, Germany

2022

Thesis: Dissecting the Roles of RNP-assembling, LCD-containing protein Rbfox1 in stress and disease

Faculté de Médecine, L'Université Paris-Est Créteil

M2 Biothérapies Tissulaires, Cellulaires, Géniques

Paris, France

2019

Erasmus Studies. Bibliographic Work: Amyotrophic Lateral Sclerosis - biomarkers, mechanism and hBM34+ cell treatment

Life Sciences Center, Vilnius University

MSc Biochemistry

Vilnius, Lithuania

2019

Thesis: Recombinant Production of Zinc-Containing Metalloprotease Domain

Faculty of Chemistry, Vilnius University

BSc Biochemistry

Vilnius, Lithuania

2017

Thesis: Recombinant Human Carbonic Anhydrase VII Protein: Production in E. coli and Protein Stability Analysis

International Baccalaureate, Vilnius Lyceum

IB Diploma

Vilnius, Lithuania

2012

Extended Essay: Excessive Indulgence into Internet Social Network Sites

Research Experience

PhD Scholar

Institute of Cell Biochemistry, MHH

Hannover, Germany

2022 - 2019

Investigated the role of Rbfox1 domains in *Drosophila melanogaster*.

- Fruit fly handling
- Genetic crosses
- S2 cell transfection
- Immunofluorescence
- Confocal microscopy

- Genetic recombination
- Gal4 overexpression
- Ovary dissection
- Paraffin embedded tissue sections
- R language
- RNA extraction
- RT-qPCR

Research Internship

VU Institute of Biotechnology

Vilnius, Lithuania

2019 - 2016

Produced recombinant proteins for drug discovery research using calorimetric and thermal shift methods.

- Recombinant protein production
- DNA cloning with RE
- E. coli transformation
- Optimization of growth conditions
- Protein purification using Ni-Sepharose
- Thermal shift assay
- Isothermal calorimetry titration

Teaching Experience

Practical Course

Institute of Cell Biochemistry, MHH

Hannover, Germany

2022

- Graduate course on histology sections and their analysis using confocal microscopy.

Student Supervision

Institute of Cell Biochemistry, MHH

Hannover, Germany

2022 - 2021

- Graduate rotation project: Construction of recombinant Rbfox1 deletion mutants, 2022
- Undergraduate thesis: "Analysis of stress-dependent subcellular localisation of Rbfox1 deletion mutants", 2021

Selected Talks and Posters

Roles of the RNP-assembling protein Rbfox1 in stress and disease in ovaries (Talk)

SFB960 Conference RNP Dynamics

Regensburg

2022

Dissecting the molecular functions of the RNA-binding, LCD-containing protein Rbfox1 in ovaries (Poster)

16th Microsymposium on RNA Biology

Vienna

2022

Dissecting the molecular functions of the RNA-binding, LCD-containing protein Rbfox1 in ovaries (Poster)

73rd Mosbacher Kolloquium "The World of RNAs – Principles and Applications"

Mosbach

2022

Dissecting the molecular functions of the RNA-binding, LCD-containing protein Rbfox1 in ovaries (Talk)

13th GfE School "Stem cells, development and regeneration: the emergence of new tissues"

Online

2021

Roles of the RNP-assembling protein Rbfox1 in stress and disease (Flash Talk)

Rencontres Exobiologiques pour Doctorant

Online

2021

Roles of the RNP-assembling protein Rbfox1 in stress and disease (Flash Talk)

EMBO Sectoral meeting on RNA and Structural Biology

Online

2020