

Sri Harsha Meghadri

PHD CANDIDATE (BIOINFORMATICS)

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Summary

I have worked in the field of molecular biology for a total of 5 years and in Bioinformatics for 4 years accumulated a broad set of interpersonal skills due to my work in several international labs. I have also obtained several skills through project design, supervision, and execution. I am a collaborative and goals oriented person who is always on a lookout for a good intellectual challenge. I love to devise and implement novel methods to find solutions to problems, whether being in molecular biology or bioinformatics.

Work Experience

newGenia AB

BIOINFORMATICS INTERN (REMOTE)

- Developing customized transcriptomics and genomics pipelines for cloud computing.

Stockholm, Sweden

Feb. 2021 - Now

Medical University of Hannover (MHH)

PHD CANDIDATE, DZL-BREATH

- Transcriptomic data analysis and Drug re-purposing in Idiopathic Pulmonary Fibrosis.

Hannover, Germany

Jan. 2020 - Now

Department of Infectious Diseases, Sahlgrenska University Hospital

ASSISTANT RESEARCHER

- Designed and developed a sequencing based assay for detection of mutations in melanoma.
- Implemented 10x scSEQ for analysis of Epstein Barr Virus associated malignancy (PTLD).
- Single cell data analysis on generated data sets.
- Implemented metagenomic pipelines for analysis of pathogen associated CNS encephalopathy.
- Performed library preparation and data analysis.

Gothenburg, Sweden

Jun. 2018 - Nov. 2019

Department of Oncology, University of Gothenburg

RESEARCH ASSOCIATE (50%)

- Cultured patient derived Pancreatic cell lines..
- Constructed NF1-GFP plasmids for in vitro assays.
- Performed fluorescence microscopy to decipher localisation of NF1-GFP.

Gothenburg, Sweden

Jan. 2017 - Jun. 2017

Department of Chemistry and Molecular Biology, University of Gothenburg

RESEARCH ASSISTANT

- Constructed SpdyA plasmids lacking interaction domains for in-vitro assays.
- Immuno-precipitated GFP and FLAG tagged proteins to understand interactions in-vitro.
- Breeding of transgenic mice, Mouse dissection and handling (FELASA Certification).
- Purification of His tagged proteins for antibody generation.

Gothenburg, Sweden

Oct. 2016 - Oct. 2017

Department of Cell and Molecular Biology, Karolinska Institute

RESEARCH ASSISTANT

- Performed western blots on lysates of activated B-cells transformed with Epstein Barr Virus to monitor cellular Sumoylation.
- Constructed FLAG-RNF4 plasmid for over expression studies to understand the role of EBV encoded miRNAs in post-transcriptional control of ubiquitin pathway.
- Performed qRT-PCR assays to monitor the gene expression profile.

Stockholm, Sweden

Oct. 2012 - July. 2013

Education

University of Gothenburg

MSC. GENOMICS AND SYSTEMS BIOLOGY

- Thesis 1: Long non-coding RNAs and DNA damage.
- Thesis 2: Pan-microbial analysis of CNS infections using Metagenomics.

Gothenburg, Sweden

2015-2020

Uppsala University

MSC. INFECTIO BIOLOGY

- Thesis: Characterization of cell cycle of B cells transformed with Epstein Barr Virus that lacks miR-BHRF1 miRNA cluster.

Uppsala, Sweden

2010-2012

- Evaluation of the expression of Nephrocystin(NPHP1) in spermatogenic cells of mouse testis.

Scholarships & Awards

2018 **Recipient**, FF Donations board scholarship

University of
Gothenburg,
Sweden

2017 **Recipient**, Adelbert Foundation scholarship

University of
Gothenburg,
Sweden

2011 **Recipient**, Uppsala Graduate School in Biomedical Research

Uppsala University,
Sweden

Scientific Articles

Optimization of cerebrospinal fluid microbial DNA metagenomic sequencing diagnostics.

Scientific Reports

BIOINFORMATICS ANALYSIS

Mar. 2022

- <https://doi.org/10.1038/s41598-022-07260-x>

Loss of Serpina1 in mice leads to altered gene expression in inflammatory and metabolic pathways.

IJMS

PROJECT DESIGN, ANALYSIS, AND WRITING

Sep. 2022

- <https://doi.org/10.3390/ijms231810425>

Extracurricular Activity

Regional Student Group - Sweden, ISCB

Gothenburg, Sweden

CORE MEMBER & PRESIDENT (GOTHENBURG BRANCH)

Jan. 2018 - Jan. 2020*

- Organized Bioinformatics workshops, Talks and student coordination for RSG in Gothenburg.

Wallenberg Center for Molecular and Translational Medicine

Gothenburg, Sweden

PLANNING COMMITTEE MEMBER

Aug. 2018 - Nov. 2019

- Organized Team members meetings.
- Organized talks on career opportunities for PhD's and Post-Docs.
- Planned and executed Team member activities such as poster sessions and blitz talks.