Rohit **Dnyansagar**

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Skilled bioinformatician with a background in evolutionary, genetic and epigenetic studies

PROFESSIONAL SUMMARY

- Skilled bioinformatician with with omics and multi-omics data analysis skills
- Strong grip over bioinformatics algorithms and a good understanding of biology and medicine
- Proficient in an array of bioinformatics software and tools with strong programming and statistical skills.
- Very good oral and written communication in English
- Team player, able to work in and coordinate collaborative studies

EDUCATION

Vienna University — *Vienna, Austria*
PhD Bioinformatics — *2014-present*

University of Skövde — *Skövde, Sweden*
Master of Bioinformatics — *2007-10*

Stockholm University — *Stockholm, Sweden*
Master of Bioinformatics — *2009 -*

Pune University — *Pune, India*
Bachelor of Pharmacy — *2001-05*

RESEARCH

The evolution of gene regulatory networks in animal development: Role of brachyury in 'mesoderm' determination in metazoans — *Vienna, Austria*
Guide: Prof. Ulrich Technau, Dr. Bob Zimmermann — *2014-19*
- Techniques: ChIP-seq data analysis, RNA-seq data analysis, Comparative genomics

Comparative transcriptomic analysis of cryptic Edwardsiidae species to resolve species complex and to study phylogeography and speciation. — *Vienna, Austria*
Guide: Prof. Ulrich Technau, Dr. Bob Zimmermann — *2014-19*
- Techniques: Transcriptome assembly, Comparative genomics

Conservation and turnover of microRNAs and their mRNA targets in Cnidaria — *Vienna, Austria*
Guide: Prof. Ulrich Technau, Dr. Bob Zimmermann — *2014-19*
- Techniques: miRNA identification

Data mining for meta-analysis of DNA methylation across healthy human tissues with focus on brain. — *Chennai, India*
Guide: Prof. N. Manoj — *2014–14*
- Techniques: Data mining

Study of GPCR receptors in marine demosponge Amphimedon queenslandica and its evolutionary analysis — *Uppsala, Sweden*
Guide: Prof. Helgi Schiöth, Dr. Markus Sällman Almén — *2012–13*
- Techniques: GPCRs, Phylogentics, Hidden markov models

Differential expression analysis to study effects of ETV5 homologue Ets96B on obesity — *Uppsala, Sweden*
Guide: Prof. Helgi Schiöth, Dr. Michael J. Williams — *2012–13*
- Techniques: RNA-seq

Metazoan repertoire of Potassium (K+) Channel Tetramerization Domain (KCTD) containing proteins *Uppsala, Sweden*

Guide: Prof. Helgi Schiöth, Dr. Markus Sällman Almén *2011–12*

- Techniques: Phylogenetics, Hidden markov models

SKILLS

Unix/ Unix based systems, Microsoft Windows, macOS, Cluster computing	*Operating systems*
Python, R, Perl, Shell scripting	*Programming*
Hypothesis testing, Regresssion models, Support vector machines	*Statistics*
RNA-seq, Exome-seq, ChIP-seq , ATAC-seq, Single cell RNA-seq, SNP/ variant analysis, MiRNA analysis,	*Bioinformatics*
Molecular evolutionary analysis	*application*

PUBLICATIONS

- Schwaiger, M.*,Andrikou. C *, **Dnyansagar, R.** *, Zimmerman, B, Ferrer Murguia, P., Genikhovich, G., & Technau, U. (In preparation). The evolution of gene regulatory networks in animal development: Genome-wide identification of target genes of "mesoderm" determinants in metazoans.
- Praher, D., Zimmermann, B., **Dnyansagar, R.**, Miller, D. J., Friis-Møller, L., Modepalli, V., … Technau, U. (Manuscript submitted). Conservation and turnover of microRNAs and their mRNA targets in Cnidaria.
- **Dnyansagar, R.** * , Zimmermann, B.*, Moran, Y., Praher, D., Sundberg, P., Møller, L. F., & Technau, U. (2018). Dispersal and speciation: The cross Atlantic relationship of two parasitic cnidarians. Molecular Phylogenetics and Evolution, 126, 346–355. Link
- Williams, M. J., Klockars, A., Eriksson, A., Voisin, S., **Dnyansagar, R.**, Wiemerslage, L., … Schiöth, H. B. (2016). The Drosophila ETV5 Homologue Ets96B: Molecular Link between Obesity and Bipolar Disorder. PLOS Genetics, 12(6), e1006104. Link
- Eriksson, A., Williams, M. J., Voisin, S., Hansson, I., Krishnan, A., Philippot, G., **Dnyansagar, R**… Schiöth, H. B. (2015). Implication of coronin 7 in body weight regulation in humans, mice and flies. BMC Neuroscience, 16, 13. Link
- Krishnan, A.*, **Dnyansagar, R**.*, Almén, M. S., Williams, M. J., Fredriksson, R., Manoj, N., & Schiöth, H. B. (2014). The GPCR repertoire in the demosponge *Amphimedon queenslandica*: insights into the GPCR system at the early divergence of animals. BMC Evolutionary Biology Link

* shared authorship

POSTERS & PRESENTATIONS

Joint Meeting of the German and Israeli Societies of Developmental Biology Vienna *2019*

Poster *Vienna, Austria*

International Workshop 'The diversification of early emerging metazoans: a window into animal evolution?' *2017*

Presentation *Tutzing, Germany*

The First Vienna Doctoral School (VDS) "Molecules of Life" retreat *2016*

Presentation *Balaton, Hungary*

Hydra-Meeting 2015 *2015*

Poster *Tutzing, Germany*

LANGUAGES

Marathi (Native), **Hindi** (Native), **English** (Very Good), **German** (A2)