

# Curriculum Vitae

## ■ Personal Information

Birth date 21.08.1983  
Birthplace Krishnanagar, India  
Nationality Indian  
Marital status Married



## ■ Degrees and Academic positions

- Feb 2013 – present PhD student at Universität Leipzig & Martin-Luther-Universität Halle-Wittenberg  
Dissertation title: "*Short non-coding RNAs in plants*"  
Supervisors: Prof. Dr. Peter F. Stadler & Prof. Dr. Ivo Große
- Aug 2011 – Oct 2012 Scientific Researcher at Freiburg Institute for Advanced Studies, Albert-Ludwigs-Universität Freiburg  
Project title: "*In-silico data analyses platforms for large-scale proteomics experiments and studying underlying principles of mass spectrometry*"  
Advisor: Prof. Dr. Jörn Dengjel
- Jan 2012 - Jan 2013 Collaborative Project at Universitätsklinikum Freiburg Project title: "*Template based homology modelling and docking to identify phagosomal immunological receptor of ssRNA*" Advisor: Dr. rer. nat. Sachin D Deshmukh
- Jul 2010 – Jul 2011 Diamond Jubilee Research Intern at Council of Scientific Industrial Research (CSIR), New Delhi, India Project title: "*Creating and integrating workflows and webservices through Galaxy workflow and Taverna in Open Source Drug Discovery Program*" Advisor: Dr. Anshu Bhardwaj
- Dec 2008 – Apr 2010 Project Assistant Level II at Indian Institute of Chemical Biology, Kolkata, India Project title: "*Studying GSTM1 null genotype and its compensation by other GSTM family members*" Advisor: Dr. A.K. Giri and Dr. Nanda Ghoshal
- Aug 2006 – Sep 2008 Masters in Bioinformatics (MSc.), Utkal University, Orissa (India)  
Ranked 1/200 students, MSc.Thesis: "*Bioinformatics approaches for studying GSTM polymorphisms*"
- Jul 2003 – May 2006 Bachelors in Botany (BSc.), University of Calcutta, Kolkata (India)

## ■ Professional skills and Interests

- Analysis of high throughput next generation sequencing data especially small RNAseq data
- Homology modelling of proteins, studying protein-protein interactions
- Interests: Designing pipelines for small non coding RNA analyses, integrating tools and workflows in Galaxy workflow pipeline

## ■ Technical Skills

O/S: Windows, Linux (Fedora, Redhat), Ubuntu, Mac  
Programming languages: C, C++, Perl, Python, Shell, R, PHP, SQL  
Specialized Software: MATLAB  
Software and Applications : MS Office, LibreOffice and LaTeX

## ■ Extra-curricular Activities

Activities Hiking, Dramatics and Dance (trained in Indian classical dance)  
Hobbies Music (Indian and Western), Reading books

## ■ Language Skills

English (TOEFL, 2009 score: 108/120)  
German A2 (University of Leipzig)  
Hindi & Bengali Native speaker

## ■ Publications

Patra, D.; Hertel, J.; Stadler, P.F.

*Functional and evolutionary significance of plant snoRNAs*. Manuscript submitted in BMC Genomics.

Patra, D.; Fasold, M.; Langenberger, D.; Grosse, I; Stadler, P. F.

*plantDARIO: web based quantitative and qualitative analysis of small RNA-seq data in plants*. Front Plant Sci, 5:708, 2014.

Bhattacharjee, P.; Paul, S.; Banerjee, M.; Patra, D.; Banerjee, P.; Ghoshal, Nanda.; Bandyopadhyay, A.; Giri, A.K.

*Functional compensation of glutathione S-transferase M1 (GSTM1) null by another GST superfamily member, GSTM2*. Sci Rep., 3:2704, 2013.

Bhardwaj, A.; Scaria, V.; Patra, D.

*Open Source Drug Discovery : A Global Collaborative Drug Discovery Model for Tuberculosis*. Science and Culture, vol. 77, nos. 12, 22-26, 2011.

## ■ References

Prof. Dr. PETER STADLER, Professor for Bioinformatics, Universität Leipzig

Prof. Dr. IVO GROSSE, Professor for Informatics, Martin-Luther-Universität Halle-Wittenberg