

Curriculum Vitae: Dr. Gautam Chatterjee

Personal Information:

Gautam Chatterjee

Date of birth: 03/05/1984

Gender: Male

Nationality: Indian



Correspondence Address:

Assistant Professor,
Department of Agricultural Biotechnology,
IRDM Faculty Centre,
Ramakrishna Mission Vivekananda Educational & Research Institute,
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Permanant Address:

Vill. + P. O. - Cheragram,
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Pin – 712 303
West Bengal, India.

Academic Qualification:

Degree	Name of the Institute/ Board	Grade	Year
Ph. D.	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)	GPA 6.0/8	Thesis submitted (2014) Thesis awarded (2015)
M. Sc. (Ag.) in Genetics	Bidhan Chandra Krishi Viswavidyalaya (BCKV)	GPA 9.15/10	2008
B. Sc. (Ag.) Hons.	Bidhan Chandra Krishi Viswavidyalaya (BCKV)	GPA 8.08/10	2006
Higher Secondary (12 th level)	West Bengal Council of Higher Secondary Education	80.6%	2002
Secondary (10 th level)	West Bengal Board of Secondary Education	84.6%	2000

Awards and Fellowship:

- Received University Merit Fellowship, Bidhan Chandra Krishi Viswavidyalaya, during B. Sc., 2002-2006.
- Received University Merit Fellowship, Bidhan Chandra Krishi Viswavidyalaya, during M. Sc., 2006-2008.
- Recipient of University Gold Medal in Genetics during M. Sc., in 2008.
- Qualified Graduate Aptitude Test in Engineering (GATE) with all India rank - 10 and percentile - 99.93 in Life Sciences in 2008.
- Qualified for Junior Research Fellowship (CSIR-JRF) and National Eligibility Test for Lecturership (NET) conducted by Council for Scientific and Industrial Research (CSIR), Govt. of India, in Life Sciences in 2008.
- Acted as an External Examiner of M. Sc. (Ag.) thesis of Bidhan Chandra Krishi Viswavidyalaya (BCKV) in 2016.
- Acted as an External Examiner for setting question papers and evaluation of answer scripts for B. Sc. (Ag.) Hons. End Term Examination, Bidhan Chandra Krishi Viswavidyalaya (BCKV) in 2016.
- Recipient of Early Career Research Award (ECRA) from Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Govt. of India, in Life Sciences in 2017.
- Acted as a Resource person to deliver a lecture on Biochemical and Molecular Characterization of Plant-beneficial Bacteria in ICAR sponsored Summer School on 24th July, 2017 at ICAR-IIFSR, Modipuram.
- Delivered an invited talk in the 10th Conference on Yeast Biology at Jawaharlal Nehru University, New Delhi, India during 8-11th February, 2018.

Research Experience:

M. Sc. thesis work (Advisor: Prof. S.K. Ghose) 2006-2008

Bidhan Chandra Krishi Viswavidyalaya, West Bengal, India.

Thesis entitled “*In-vitro* Cultivation and Molecular Characterization of Cell Lines for Better Secondary Metabolites in *Gloriosa superba* L.”

Ph. D. thesis work (Advisor: Prof. Kaustuv Sanyal) 2008-2014

Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India.

Thesis entitled “Identification and Characterization of the Centromere in Human Pathogenic Yeast, *Candida tropicalis*.”

Employment Details:

Assistant Professor

29/10/2015 to present

Ramakrishna Mission Vivekananda Educational & Research Institute, Kolkata, India.

Teaching Experience:

Courses taught/ teaching for M. Sc. program at Department of Agricultural Biotechnology, Ramakrishna Mission Vivekananda University during 2015-2017:

- 1. ABT-102: Genetics.** In this module, I am teaching classical genetics starting from Mendel to Oliver. This module includes Mendelian theory of inheritance, Classical view of a gene, Chromosome structure and its function, Dominance and epistasis, Sex determination and linkage, Mutation, Qualitative versus quantitative genetics, Population genetics etc.
- 2. ABT-207: Cell Biology.** This module includes Cell theory, Cell structure of both prokaryotes and eukaryotes, Cell organelles, Cell cycle, Cell membrane and transport etc.
- 3. ABT-206: Molecular Tools and Techniques.** This module is completely based on practical classes, in which isolation of DNA & protein, Agarose & SDS-PAGE gel electrophoresis, PCR, Cloning techniques have been taught.
- 4. ABT-105: Molecular Biology.** In this course, I am teaching only a part of the module, which includes Central dogma of molecular biology, Genetic code, Translation and DNA repair.
- 5. ABT-302: Bioinformatics.** The simple bioinformatic applications, several databases and its function have been taught and discussed.

Details of Sponsored Research & Development Projects:

1. Network Project on Organic Farming. (Ref no. F. No. 1-42/NPOF/201). ICAR-IIFSR, Govt. of India. **(9-10 lakhs per annum)**
2. Structure-function analysis of the centromeres and its associated centromeric protein CENP-A of the human pathogenic *Candida parapsilosis sensu lato* species complex. (ECR/2016/001138/LS). SERB-DST, Govt. of India. 2017-2020. **(40.49 lakhs).**

Research guidance:

Degree	Guidance	Number completed	Number progress
M. Sc. in Agricultural Biotechnology	Single	1	1
	Joint (Co-guide)	4	0
Ph. D. in Agricultural Biotechnology	Single	0	1

Publications:

Books:

1. **Gautam Chatterjee**. Identification and characterization of the centromere in human pathogenic yeast *Candida tropicalis*. (2014). Ph. D Thesis, JNCASR.
2. Sreyoshi Mitra, Laxmi Shanker Rai, **Gautam Chatterjee**, and Kaustuv Sanyal. Chromatin immunoprecipitation (ChIP) assay in *Candida albicans*. in *Candida species: methods and protocols* eds. By Richard Calderone and Ronald Cihlar. (2016). *Methods in Molecular Biology* (Springer). **1356**: 43-57.

Articles:

1. Lukasz Kozubowski, Vikas Yadav, **Gautam Chatterjee**, Shreyas Sridhar, Masashi Yamaguchi, Susumu Kawamoto, Indrani Bose, Joseph Heitman, and Kaustuv Sanyal. Ordered kinetochore assembly in the human-pathogenic basidiomycetous yeast *Cryptococcus neoformans*. (2013). *mBio*. **4(5)**: e00614-13.
2. Guilhem Janbon, Kate L. Ormerod, Damien Paulet, Edmond J. Byrnes III, Vikas Yadav, **Gautam Chatterjee**, (+41 authors), Kaustuv Sanyal, Joseph Heitman, James A. Fraser, Christina A. Cuomo, and Fred S. Dietrich. The genome sequence of *Cryptococcus neoformans* var. *grubii* reveals complex mechanisms of RNA expression and virulence plasticity. (2014). *PLoS Genetics*. **10(4)**: e1004261.
3. **Gautam Chatterjee**, Sundar Ram Sankaranarayanan, Krishnedu Guin, Yogitha Thattikota, Sreedevi Padmanabhan, Rahul Siddharthan, and Kaustuv Sanyal. Repeat-associated fission yeast-like regional centromere in the ascomycetous budding yeast *Candida tropicalis*. (2016). *PLoS Genetics*. **12(2)**: e1005839.
4. Syandan Sinha Ray, Md. Nasim Ali, Shibasis Mukherjee, **Gautam Chatterjee**, and Maitreyi Banerjee. Elimination and molecular identification of endophytic bacterial contaminants during *in vitro* propagation of *Bambusa balcooa*. (2017). *World Journal of Microbiology and Biotechnology*. **33(31)**: 1-9.

Conference/ Symposium attended:

1. Gautam Chatterjee, Yogitha Thattikota, Vaijyanthi K. Raghavan and Kaustuv Sanyal. Fission yeast like centromeres in budding yeast. The 79th Annual Meeting of Society of Biological Chemists, Indian Institute of Science, Bangalore, India, 13-15 December, 2010.
2. Attended Indo-German Conference on Pathogenic Fungi in Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India, 1-3 August, 2011.
3. Got best Poster award in Annual Faculty Meeting organized by Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India, 14-15 November, 2011.
4. Attended and presented poster at Chromosome Stability Conference in Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India, 14-17 December, 2014.

5. Attended and delivered a talk at XI Annual Group Meeting of Network Project on Organic Farming (NPOF) at ICAR-IISS, Bhopal, India, 17-19 August, 2016.
6. Attended RUSA funded International Level Seminar at Ramakrishna Mission Vidyamandira, Belur Math, India, 14 January, 2017.
7. Attended a Training Program on Stability/combined analysis methodology for NPOF experimental data at ICAR-IIFSR, Modipuram, India, 25-26 July, 2017.
8. Attended and delivered a talk at XII Annual Group Meeting of Network Project on Organic Farming (NPOF) at ICAR-IIFSR, Modipuram, India, 18-19 December, 2017.
9. Delivered an invited talk in the 10th Conference on Yeast Biology at Jawaharlal Nehru University, New Delhi, India, 8-11th February, 2018.