

Academic & Research profile

Prabal Giri, PhD

Assistant Professor (Stage 2)
Department of Chemistry
Guskara Mahavidyalaya
Burdwan 713128
West Bengal

A. Personal Details

Name	Dr Prabal Giri
Name of Father	Late Debendranath Giri
Date of Birth	22/ 11/ 1981
Present Address	Guskara College Teachers' Quarters, Guskara Mahavidyalaya, Burdwan 713128
Address for Communication	Guskara College Teachers' Quarters, Guskara Mahavidyalaya, Burdwan 713128
Nationality	Indian
Race	Hindu
Marital Status	Married
Sex	Male
Category	General
Contact No.	9433134754
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B. Profile Qualification

Qualification	Designation	Specialization	No. of Years of experience	No. of Ph.D./M.Phil. students guided in the last 4 years
PhD in Science	Assistant Professor (Stage 2)	Physical Chemistry	8 years +	Nil

C. Academic Qualification

Examination Passed/Degree Awarded	Board/ University	Year of Passing	Division/ Class	Subjects Taken
PhD in Science	Jadavpur University (affiliated institute: Indian Institute of Chemical Biology, CSIR)	2009	N.A.	Area: Biophysical Chemistry Thesis Title: <i>"Biophysical studies on the interaction of plant alkaloids with polyadenylic acid structures"</i> .
NET	CSIR-UGC	2004	JRF+LS	Chemical Sciences
SLET	WBCSC	2004	JRF+LS	Chemical Sciences
M.Sc	University of Calcutta	2004	I	Chemistry Physical Chemistry (Specialization)
B.Sc (Hons)	University of Calcutta	2002	I	Chem (Hons), Phy, Math, Envs, B, E

D. Research Projects

Sl. No.	Designation	(Please \checkmark)		Project Title	Name of funding agency	Grant
		ongoing	completed			
01.	Principal Investigator		\checkmark	<i>Structural elucidation and molecular aspects on the interaction of small molecules with ribonucleic acid (RNA) structures</i>	UGC Minor research Project (2009-10) under XI th plan	1,37,000=00
02.	Principal Investigator	Research Proposal sent MRP ID: MRP-MAJOR-CHEM-2014-54041		<i>Spectrophotometric determination of drugs in pharmaceutical formulations</i>	UGC Major research project under XII th plan (2014-15)	Decision not declared

E. Details of patents (if any), area/s of consultancy and income generated: Nil

F. Research Interest: Spectroscopic applications, Biophysical Chemistry, Biothermodynamics, Nucleic acid research, protein structure and dynamics, Bioanalytical Chemistry etc.

G. Research Publications**1. No. of papers published in peer reviewed journals with ISSN:**

<i>National</i>	<i>International</i>	<i>Remarks</i>
01	18	Please refer to <u>Annexure 1</u> for details

2. **Monographs:** Nil
3. **Chapters in books:** Nil
4. **Edited books:** Nil
5. **Books with ISBN with details of publishers:** Nil
6. **Number listed in International database:**

<i>Web of Science</i>	<i>Scopus</i>	<i>ISI</i>	<i>Google Scholar</i>
09	08	13	19

8. No. of papers with more than 10 citations: 13 out of 19 papers**H. Conferences/Seminar/Workshop attended:** Please refer to Annexure 2 for details**I. Awards:** CSIR Junior and Senior Research Fellowship**J. Area of Teaching:**

1. Physical Chemistry section of UG Chemistry (Hons.) syllabus (papers III, VII, XI).
2. Physical Chemistry Experiments of UG Chemistry (Hons.) (paper XII).
3. General principles of Chemistry of UG Chemistry (General) (paper I).
4. Physical Chemistry section of UG Chemistry (General) (paper II).
5. Macromolecular Chemistry, Green Chemistry of UG Chemistry (General) (paper IV).

K. Innovative contributions in teaching (in brief):

1. **Design in curriculum:** Being the sole teacher in Physical Chemistry Section, curriculum is designed accordingly as per UG Honours and General Courses.
2. **Teaching Methods:** Besides traditional book-chalk-board-duster method, teaching is specially emphasized on the basis of computer enabled methods using several software like MS Words, MS Excel, MS PowerPoint, Adobe Acrobat etc. My students are also being encouraged always to access online for more resources. Various reference of EBooks are also provided to the students.
3. **Laboratory Experiments:** Experiments are performed as per New UG syllabus introduced from 2014-15 academic session in the limited space of the laboratory. More Laboratory equipments are needed. The average marks obtained by my students in the practical paper XII are gradually increasing and highest mark was obtained in the last University examination.
4. **Evaluation Methods:** Class tests are taken regularly at least three times for every year of students in annual manner.
5. **Remedial teaching:** Under the scheme of UGC remedial teaching, classes were arranged in 2011-12 and 2012-13 academic sessions.

L. Recharging Strategies:

1. Participation in Refresher Course in Environmental Studies (2014) organized by UGC-ASC, University of Calcutta and ranked "A" grade.
2. Participation in Workshop on Basic Skills on Counselling (2013) organized by UGC-ASC, Jadavpur University.
3. Participation in Refresher Course in Chemistry (2011) organized by UGC-ASC, University of Calcutta and ranked "A" grade.
4. Participation in Orientation Programme (2011) organized by UGC-ASC, Jadavpur University and ranked "A" grade.

M. Participation in Corporate life:

1. College/Institution (recent years)

- a) Secretary, Teachers' Council in the current academic session (2016-17).
- b) Jt. Co-ordinator, Computer Management and Maintenance Sub-committee since 2015.
- c) Jt. Co-ordinator, Multi-Gym Sub-committee since 2015.
- d) Member, UGC Sub-committee since 2013.
- e) Member, Statistical Cell since 2012.
- f) Member, Asset Management and Maintenance Sub-committee since 2014.
- g) Member, Admission Sub-committee since 2015.
- h) Member, Examination Coordination Cell since 2015.
- i) Member, Stipend Sub-committee since 2015.
- j) Member, Academic Sub-committee since 2015.

2. Co-curricular activities: Students' Sports, NSS.

3. Student welfare and discipline: Being the member of disciplinary sub-committee since 2015, I have participated in several meeting and be a part of the decisions.

N. Professional Experience:

1. Examiner of several UG level examinations conducted by University of Burdwan since 2009.
2. Paper setter of W.B.C.S. (main) examination 2014 of Chemistry paper.
3. Assistant Officer-in-charge of several test and final UG level examinations since 2010.

O. Professional Membership:

1. Life Member of Indian Association for the Cultivation of Sciences since 2006.
2. Life Member of Indian Biophysical Society since 2005.
3. Life Member of Indian Photobiology Society since 2007.
4. Life Member of DNA Society of India since 2008.

P. Editor/ Reviewer of Journals:

1. Reviewer of Molecular BioSystems (RSC Publication).
2. Reviewer of Chemical Communications (RSC Publication).
3. Reviewer of Current Chemical Biology (Bentham Science Publication).
4. Reviewer of Achieves of Biochemistry and Biophysics (Elsevier Publication).

Annexure I

Research Publications:

POST DOCTORAL STAGE					
Sl. No.	Name of author(s)	Year of publication	Name of Journal, volume, pp. no.	Journal type	Title of article
1.	P. Giri et al.	2016	Current Chemical Biology, accepted	International	Molecular aspects.....human serum albumin
2.	P. Giri et al.	2014	Modern Chemistry and Applications, 2, 1-5	International	An overview in food chemistry
3.	P. Giri et al.	2014	American Journal of Drug Discovery,1,10-24	International	Ecotoxicological..... on aquatic environment
4.	P. Giri et al.	2013	International Journal of Chemical and Life Sciences,2,1207-1212	International	An overview..... food additives
5.	C. Pal, S. Roy, M. Mondal, P. Giri , G.S. Kumar, J. Mukherjee, P. Jaisankar	2013	Journal of Molecular Structure,1036,1-6	International	Studies on.....cyclodextrin inclusion complexes
6.	P. Giri et al.	2012	Advances in Pure and Applied Chemistry,1,80-85	International	Greener world..... sustainable development
7.	P. Giri et al.	2012	Advances in Pure and Applied Chemistry,1,73-76	International	Pharmaceuticals.....brief review
8.	P. Giri et al.	2012	Environmental Science: An Indian Journal,7,383-390	National	Green revolution.....sustainable environment
9.	P. Giri et al.	2010	Mini Reviews in Medicinal Chemistry,10,568-577	International	Isoquinoline alkaloids.....therapeutic action
10.	P. Giri et al.	2010	Molecular BioSystems,6,81-88	International	Molecular recognition...biological perspectives
11.	P. Giri et al.	2009	Current Medicinal Chemistry,16,965-987	International	Molecular aspectsdrug design
DOCTORAL STAGE					
1.	P. Giri et al.	2008	Archives of Biochemistry and Biophysics,474,183-192	International	Self-structure....binding molecules
2.	P. Giri et al.	2008	Molecular BioSystems,4,341-348	International	Binding of....biophysical study.

3.	P. Giri et al.	2008	Journal of Photochemistry and Photobiology A: Chemistry,194,111-121	International	Spectroscopic....double helical poly(A).
4.	M. Hossain, P. Giri , G.S. Kumar	2008	DNA and Cell Biology,27,81-90	International	DNA intercalation....study
5.	P. Giri et al.	2007	Biochimica et Biophysica Acta,1770,1419-1426	International	Specific binding....sanguinarine
6.	P. Giri et al.	2006	International Journal of Biological Macromolecules,39,210-221	International	Molecular aspects.....poy(A)
7.	P. Giri et al.	2006	Bioorganic & Medicinal Chemistry Letters,16,2364-2368	International	RNA specific....poly(A)
8.	R.C. Yadav, G.S. Kumar, K. Bhadra, P. Giri , R. Sinha, S. Pal, M. Maiti	2005	Bioorganic & Medicinal Chemistry,13,165-174	International	Berberine...thermodynamic study

Annexure 2

Seminar/Conferences/Workshop participated:

Sl. No.	Year	Funding agency	Seminar type	Place	Whether paper presented	Title of paper
1.	2016	UGC	National	Serampore College, Hooghly	Y	Studies on...environment
2.	2015	UGC-CPE	National	Bijoykrishna Girls' College, Howrah	Y	Anti cancer...management
3.	2015	UGC	National	Deshbandhu College for Girls, Kolkata	Y	Application of...research
4.	2015	Indian Chemical Society	National	University of Calcutta	Y	Studies on...compounds
5.	2015	UGC	National	Bangabasi Morning College, Kolkata	Y	Ecotoxicological...environment
6.	2014	Indian Chemical Society	National	University of Calcutta	Y	Green chemistry...industry
7.	2014	UGC	Refresher Course	ASC, University of Calcutta		Environmental Studies

8.	2014	DST,GoWB	State	Hooghly Womens' College, Hooghly	Y	Environmental toxicology...health
9.	2013	UGC	Workshop	ASC, Jadavpur University		Basic skills on counseling
10.	2013	State Science Congress	State	BESU, Howrah	Y	Studies on....related compounds
11.	2013	Indian Science Congress	National	Kolkata	Y	A thermodynamic...processing
12.	2012	DST, Gol	National	Jadavpur University	Y	Green chemistry...development
13.	2012	IQAC, CU	National	University of Calcutta	Y	New challenges...perspectives.
14.	2011	UGC	National	Narasinha Dutt College, Howrah.	Y	Chemical biology...perspectives.
15.	2011	UGC	Workshop	ASC, Jadavpur University		Basic skills on counseling
16.	2011		National	Fakir Chand College, Diamond Harbour.	Y	Green....chemistry..
17.	2011	CRSI	National	Viswa-Bharati	Y	Thermodynamic...DSC studies.
18.	2011	UGC	Refresher course	ASC, University of Calcutta		Chemistry
19.	2011	UGC	Orientation Programme	ASC, Jadavpur University		
20.	2011	UGC	National	Viswa-Bharati	Y	UV radiation....repair.
21.	2011	UGC	National	Bolpur College	Y	Natural....conservation.

