

1. Name (Block Letter): **DR. PRIYA ROY**
2. Department: **Zoology**
3. Current Designation: **Assistant Professor**
4. Address for Communication (Permanent): **Vill+P.O.-Madhaipur, Dist-
Birbhum, West Bengal, Pin-731126**
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7. Academic Appointments:

June 2019 – till date **Assistant Professor in the Department of Zoology,
Diamond Harbour Women’s University, Sarisha,
South 24 Parganas, WB**

June 2018 – May 2019 **D.S. Kothari Postdoctoral Fellow**

8. Academic Qualification: Ph.D

Degree	Name of the University	Year of Award
Ph.D	Visva-Bharati	2017
M.Sc	Visva-Bharati	2012
B.Sc	Visva-Bharati	2010

9. Awards:

- 1. Dr. D.S. Kothari Postdoctoral Fellowship (Higher Fellowship)** **2018**
- 2. National Eligibility Test (CSIR-UGC):** **2011, 2014, 2015**
- 3. Graduate Aptitude Test in Engineering (GATE):** **2011, 2012**

10. Research interest:

Parasitology, Filariasis, Cell death signaling (Apoptosis & Autophagy), Biological applications of nanomaterials.

Doctoral study: “Exploration of the antifilarial activity of a natural compound, chemically synthesized compounds and gold nanoparticles”

Postdoctoral study: “Impact of *Culex quinquefasciatus* larval microbiome on the modulation of vector competence for filarial parasite”

11. List of Publications:

S. No.	Authors	Title	Journal	Volume	Page	Year
1.	P. Roy , A. Sengupta, N. Joardar, A. Bhattacharyya, N.C. Saha, A.K. Misra, S.P. Sinha Babu	Influence of autophagy, apoptosis and their interplay in filaricidal activity of C-cinnamoyl glycosides	Parasitology Impact factor:2.511 ISSN No. 1469-8161	--	--	2019
2.	P. Roy , S. K. Saha, P. Gayen, P. Chowdhury, S.P. Sinha Babu	Exploration of antifilarial activity of gold nanoparticle against human and bovine filarial parasites: A nanomedicinal mechanistic approach	Colloids and Surfaces B: Biointerfaces Impact factor:3.973 ISSN No.0927-7765	161	236-243	2018
3.	K. Dhara, S. Lohar, A. Patra, P. Roy , S. K. Saha, G. C. Sadhukhan, P. Chattopadhyay	A New Lysosome-Targetable Turn-On Fluorogenic Probe for Carbon Monoxide Imaging in Living Cells	Analytical Chemistry Impact factor:6.35 ISSN No.0003-2700	90	2933-2938	2018
4.	A. Guichait, N. Joardar, P.K. Parida, P. Roy , N. Mukherjee, A. Dutta, R. Yesuvadian, S.P. Sinha Babu, K. Jana, A.K. Misra.	Development of novel anti-filarial agents using carbamo (dithioperoxo) thioate derivatives.	European Journal of Medicinal Chemistry Impact factor:4.833 ISSN No. 0223-5234	143	598-610	2018
5.	S. Lohar, K. Dhara, P. Roy , S.P. Sinha Babu, P. Chattopadhyay	Highly Sensitive Ratiometric Chemosensor and Biomarker for Cyanide Ions in the Aqueous Medium	ACS Omega Impact factor:2.584 ISSN No.2470-1343			2018
6.	S. Lohar, A. Patra, P. Roy , S.P. Sinha Babu, P. Chattopadhyay	A Highly Selective Fluorescence Turn-On Probe for the Sensing and Bioimaging of Hypochlorite Anion in Aqueous Media	ChemistrySelect Impact factor:1.716 ISSN No.2365-6549	3	6707 – 6713	2018
7.	S.K. Saha*, P. Roy* , M.K. Mondal, D. Roy, P. Gayen, P. Chowdhury, S.P.Sinha Babu (* equally contributed)	Development of chitosan based gold nanomaterial as an efficient antifilarial agent: A mechanistic approach	Carbohydrate polymers Impact factor:6.044 ISSN No. 0144-8617	157	1666-1676	2017
8.	S. Mondal, S. Mukherjee, S. Malakar, S. Debnath, P. Roy , S.P. Sinha Babu	Studying the Biological Activities and Molecular Docking of Some Novel Benzosultams and Benzosultones	Current Bioactive Compounds Impact factor: 0 ISSN No. 1875-6646	13	347-355	2017
9.	P. Roy , D. Dhara, P. K. Parida, K. Jana, S.P. Sinha Babu, A.K. Misra	C-Cinnamoyl glycosides as a new class of anti-filarial agents	European Journal of Medicinal Chemistry Impact factor:4.833 ISSN No. 0223-5234	114	308-317	2016
10.	S.K. Saha, P. Roy , P. Saini, M.K. Mondal, P. Chowdhury, S.P. Sinha Babu	Carbohydrate polymer inspired silver nanoparticles for filaricidal and mosquitocidal activities: A comprehensive view	Carbohydrate polymers Impact factor:6.044 ISSN No. 0144-8617	137	390-401	2016
11.	P. Saini, S.K. Saha, P. Roy , P. Chowdhury, S.P. Sinha Babu	Evidence of reactive oxygen species (ROS) mediated apoptosis in <i>Setaria cervi</i> induced by green silver nanoparticles from <i>Acacia auriculiformis</i> at a very low dose	Experimental Parasitology Impact factor:1.719 ISSN No. 0014-4894	160	39-48	2016

12.	S. Mukherjee, N. Mukherjee, P. Gayen, P. Roy , S.P. Sinha Babu	Metabolic inhibitors as antiparasitic drugs: pharmacological, biochemical and molecular perspectives	Current Drug Metabolism Impact factor:2.277 ISSN No. 1875-5453	17	937-970	2016
13.	S. Mukherjee, N. Mukherjee, P. Roy , P. Saini, S.P. Sinha Babu	An Approach Towards Optimization of the Influential Growth Determinants of Opportunistic Yeast Isolate <i>Pichia guilliermondii</i>	Preparative Biochemistry and Biotechnology Impact factor:1.24 ISSN No. 1082-6068	46	440-445	2016
14.	N. Mukherjee, S. Mukherjee, P. Saini, P. Roy , S.P. Sinha Babu.	Phenolics and Terpenoids; the Promising New Search for Anthelmintics: A Critical Review	Mini Reviews in Medicinal Chemistry Impact factor:2.842 ISSN No.1875-5607	16	1415-1441	2016
15.	P. Saini, N. Mukherjee, S. Mukherjee, P. Roy , P. Gayen, D. Kumar, B.C. Pal S.P. Sinha	<i>Diospyros perigrana</i> barks extract induced apoptosis in filarial parasite <i>Setaria cervi</i> through generation of reactive oxygen species	Pharmaceutical Biology Impact factor:1.918 ISSN No. 1388-0209	53	813-823	2015
16.	S. Mukherjee, N. Mukherjee, P. Saini, P. Roy , S.P. Sinha Babu	Ginger extract ameliorates phosphamidon induced hepatotoxicity	Indian journal of experimental biology Impact factor:1.475 ISSN No. 0019-5189	53	574-84	2015
17.	S. Mukherjee, N. Mukherjee, P. Saini, P. Gayen, P. Roy , S.P. Sinha Babu	Molecular evidence on the occurrence of co-infection with <i>Pichia guilliermondii</i> and <i>Wuchereria bancrofti</i> in two filarial endemic districts of India	Infectious Diseases of Poverty Impact factor:3.06 ISSN No. 2049-9957	3	13	2014
18.	N. Mukherjee, S. Mukherjee, P. Saini, P. Roy , S.P. Sinha Babu.	Antifilarial effects of polyphenol rich ethanolic extract from the leaves of <i>Azadirachta indica</i> through molecular and biochemical approaches describing Reactive oxygen species (ROS) mediated apoptosis of <i>Setaria cervi</i> .	Experimental Parasitology Impact factor:1.719 ISSN No. 0014-4894	136	41-58	2014
19.	N. Mukherjee, P. Saini, S. Mukherjee, P. Roy , P. Gayen, S.P. Sinha Babu	Ethanolic extract of <i>Azadirachta indica</i> (A. Juss.) causing apoptosis by ROS upregulation in <i>Dirofilaria immitis</i> microfilaria	Research in Veterinary Science Impact factor:1.751 ISSN No. 0034-5288	97	309-317	2014
20.	N. Mukherjee, P. Saini, S. Mukherjee, P. Roy , S.P. Sinha Babu.	<i>In vitro</i> antifilarial activity of <i>Azadirachta indica</i> aqueous extract through reactive oxygen species enhancement	Asian Pacific Journal of Tropical Medicine Impact factor: 0 ISSN No. 1995-7645	7	841-848	2014