




## University Faculty Details Page on DU Web-site

Title	Prof.	First Name	Prahlad	Last Name	Ghosh	
Designation		<b>Professor</b>				
Department		<b>Department of Biochemistry</b>				
Address (Campus)		<b>University of Delhi South Campus, New Delhi-110021</b>				
(Residence)		<b>Type VA Apt, Flat N. 03, UDSC, New Delhi-110021.</b>				
Phone No (Campus)		<b>24111968, 24112081</b>				
(Residence)optional		<b>24117560</b>				
Mobile		<b>9810841488</b>				
Fax		<b>24115270</b>				
Email		<b>pcghose@gmail.com</b>				
Web-Page						
Education						
Degree	Institution		Year		Details	
<b>Ph.D.</b>	<b>Calcutta University</b>		<b>1982</b>		Thesis topic: Ligand-mediated uptake of biological active molecules and drugs by different tissues.	
<b>M. Sc</b>	<b>Calcutta University</b>		<b>1977</b>		Subjects: Biochemistry	
<b>B. Sc (Honours)</b>	<b>Calcutta University</b>		<b>1975</b>		Subjects: Chemistry (Honours), Physics and Mathematics.	
Career Profile						
Organisation / Institution		Designation		Duration		Role
<b>Uniformed Services University of the Health Sciences, Maryland, USA.</b>		<b>Research Associate</b>		<b>1982-1986</b>		<b>Research in cell biology</b>
<b>University of Delhi South Campus</b>		<b>Lecturer</b>		<b>1986-1993</b>		<b>Teaching and Research in Cell Biology and Drug Delivery</b>
<b>University of Delhi South Campus</b>		<b>Reader</b>		<b>1993-2001</b>		<b>Teaching and Research in Cell Biology and Drug Delivery</b>
<b>University of Delhi South Campus</b>		<b>Professor</b>		<b>2001-till date</b>		<b>Teaching and Research in Cell Biology and Drug Delivery</b>
Research Interests / Specialization						
<b>Cell Biology, Drug Delivery, Liposome Technology, nanotechnology, nano-medicine</b>						

Teaching Experience ( Subjects/Courses Taught)			
Teaching in the post graduate level for the last 31 years on the subject cell biology and Cellular signaling and metabolism			
Honors & Awards			
Fellow of the National Academy of Sciences, India			
Awarded Professor M.L. Khorana Memorial Prize by the Indian Pharmaceutical Association (IPA) for publishing best paper in the field of Pharmacology and Clinical Pharmacy in Indian Journal of Pharmaceutical Science in the year 2013 on 5 <sup>th</sup> June 2015			
Publications (LAST FIVE YEARS)			
<u>Books / Monographs</u>			
<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>Co-Author</u>

In Indexed/ Peer Reviewed Journals

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Co-Author</u>
2017	Enhanced Efficacy of anti-miR-191 Delivery through Stearylamine Liposome Formulation for the treatment of Breast Cancer Cells.	Int J Phar. Sci. (Under revision).	Shivani Sharma, Vinoth Rajendran, Ritu Kulshreshtha and <b>Prahlad C. Ghosh</b>
2017	Synergistic blending of high-valued heterocycles inhibits growth of <i>Plasmodium falciparum</i> in culture and <i>P. berghei</i> infection in mouse model.	Scientific Report. (Accepted for publication).	Prashant Kumar, Angela Achieng, Vinoth Rajendran, <b>Prahlad C. Ghosh</b> , Brajendra Singh, Douglas Perkins, Manmeet Rawat, Prakasha Kempaiah, and Brijesh Rathi
2017	P53-miR-191-SOX4 regulatory loop affects apoptosis in breast cancer	<u>RNA</u> . 2017 Apr 27. pii: rna.060657.117. doi: 10.1261/rna.060657.117. [Epub ahead of print]	Sharma S., Nagpal N., <b>Ghosh P.C.</b> , Kulshreshtha R.
2017	Liposomes: Drug delivery system or possible doping agent?	J. Drug Delivery and Therapeutics. 7(1). 25-29. (I.F. 0657)	Vandan, N, Haseen, J, <b>Ghosh, P.C.</b> , Jain, S., Boetra A.
2016	Development and <i>in vitro</i> evaluation of oxytetracycline-loaded PMMA nanoparticles for oral delivery against Anaplasmosis. IET Nanobiotechnology	IET Nanobiotechnol. 2017 Feb; 11(1):119-126. doi:10.1049/iet-nbt.2016.0061.PMI D: 28476972	Lakshminarayana, T.S, Basavaraj, Madhusudan, Prakash, K.B and <b>Prahlad C. Ghosh</b>
2016	Therapeutic efficacy of chloroquine in long	Eur J Biomed and	Rajendran, V., Hasan,

	circulating liposome formulations against chloroquine-resistant plasmodium berghei infection in mice.	Phar Sci. 3, 258-264	G.M., Kumar, N., Dutt, S., Garg, N., Tiwari, P., & <b>Ghosh, P.C.</b>
2016	Stearylamine Liposomal Delivery of Monensin in Combination with Free Artemisinin Eliminates Blood Stages of Plasmodium falciparum in Culture and P. berghei Infection in Murine Malaria.	Antimicrob Agents Chemother 60(3), 1304-1318	Rajendran, V., Rohra, S., Raza, M., Hasan, G. M., Dutt, S., and Ghosh, P. C. (2016)
2016	Targeting polyamine biosynthetic pathway through RNAi causes the abrogation of MCF 7 breast cancer cell line.	Tumor Biology 37(1) 1159-1171	Enna Dogra Gupta, Manendra Pachauri, Ghosh, P. C. and Manchikatla Venkat Rajam
2016	Alteration in Plasmodium falciparum proteome upon treatment with various anti-malarial drugs.	Journal of Proteins & Proteomics 7(1) 1-17	Jha, D., Raza, M., Adak, T., and Ghosh, P. C.
2015	Potential therapeutic applications of plant toxin-ricin in cancer: challenges and advances.	Tumor Biology 36(11) 8239-8246	Nikhil Tyagi, Monika Tyagi, Manendra Pachauri and Ghosh, P. C.
2015	Piperine Loaded PEG-PLGA Nanoparticles: Preparation, Characterization and Targeted Delivery for Adjuvant Breast Cancer Chemotherapy.	Journal of Drug Delivery Science and Technology, 29, 269–282.	Manendra Pachauri, Enna Dogra Gupta, Ghosh, P. C.
2015	Hydroxyethylamine Based Phthalimides As New Class of Plasmepsin Hits: Design, Synthesis and Antimalarial Evaluation.	PLoS One 26;10 (10):e0139347.	Anil K. Singh, S. R., Yan Tang, Nathan E. Goldfarb, Ben M. Dunn, Vinoth Rajendran, Ghosh, P. C. Neelu Singh, N. Latha, Brajendra K Singh, Manmeet Rawat and Brijesh Rathi
2015	Design, Synthesis and Biological Evaluation of Functionalized Phthalimides: A New Class of Antimalarials and Inhibitors of Falcipain-2, a Major Hemoglobinase of Malaria Parasite	<i>Bioorg Med Chem.</i> 2015 Apr 15;23(8):1817-27.	Singh AK, Rajendran V, Pant A, <b>Ghosh P.C.</b> , Singh N, Latha N, Garg S, Pandey KC, Singh BK, and Rathi B.
2014	Cellular iron homeostasis and therapeutic implications of iron chelators in cancer	<i>Curr Pharm Biotechnol</i> 15(12): 1125-1140	Raza M, Chakraborty S, Choudhury M, <b>Ghosh P.C</b> , Nag A.
2014	Assessment of anti-plasmodial activity of non-hemolytic, non-immunogenic, non-toxic antimicrobial peptides (AMPs LR14) produced by <i>Lactobacillus plantarum</i> LR/1.	Drugs R & D. DOI 10.1007/s40268-014-0043-y,	Gupta, Ruchi, Rajendran, V., <b>Ghosh, P. C.</b> and Srivastava, S.
2014	Purification and characterization of a novel and robust L-asparaginase having low glutaminase activity from <i>Bacillus licheniformis</i> : in vitro evaluation of anti-cancerous properties.	Plos One 9(6): e99037. Doi:10.1371/journal.pone.00990371	Mahajan, Richi; Kumar, Vinod; Rajendran, Vinoth; Saran, Saurabh; <b>Ghosh, Prahlad</b> ; Saxena, Rajendra

2013	Efficacy of liposomal monensin on the enhancement of the antitumor activity of liposomal ricin in human epidermoid carcinoma (KB) cells	Ind. J. Pharm. Sci. 75:16-22	Tyagi, N., Rathore, S.S. and Ghosh, P.C.
2013	Cell mediated immune response after challenge in Omp25 liposome immunized mice contributes to protection against virulent Brucella abortus 544	Vaccine. 2013 Feb 6;31(8):1231	Goel D, Rajendran V, Ghosh PC, Bhatnagar R.
2012	Preparation and characterization of monensin loaded PLGA nanoparticles in vitro anti-malarial activity against <i>Plasmodium falciparum</i> .	J. Biomedical Nanotechnology, 8:1-10	Surolia, Ranu, Pachauri, Manendra and Ghosh, P.C.

## Articles

### Conference Presentations

- Invited as speaker by the European Foundation of Clinical Nanomedicine to attend International conference "European & Global Summit for Clinical Nanomedicine and Targeted Medicine" held at Congress Center, Basel, Switzerland, May 7-10, 2017.
- Mohsin Raza (PhD Scholar of Prof. Prahlad.C.Ghosh) was awarded an European Molecular Biology Laboratory (EMBL) Advanced Training Centre Corporate Partnership Programme Fellowship to attend the EMBL Course: Extracellular Vesicle: from Biology to Biomedical Applications, held at EMBL Heidelberg, Germany on 27-30 March 2017.
- Vinoth Rajendran, Chanchal Singh and Prahlad C Ghosh attended and presented "Therapeutic Efficacy of Doxycycline loaded liposomes against *Plasmodium falciparum* in Culture and *P. berghei* infection in mice Model" at 15<sup>th</sup> annual scientific festival BIOSPARKS, held on 30-31<sup>st</sup> March 2017, Jawaharlal Nehru University, New Delhi. **The first author was selected for the Best Oral Presentation Award.**
- Vinoth Rajendran and Prahlad C. Ghosh attended and presented "Liposome mediated delivery of anti-malarial drugs for the treatment of malaria" at 6<sup>th</sup> National Science Day Symposium, held on 29<sup>th</sup> February 2016, University of Delhi South Campus, New Delhi. **The first author was selected for the Second Oral Presentation Award.**
- Vinoth Rajendran and Prahlad C Ghosh attended and presented "Liposomal mediated delivery of monensin and in combination with potent antimalarials for the treatment of malaria" at Indo-Portuguese Workshop, held on 12-13 February, 2016, University of Delhi, India.
- Manendra Pachauri and Prahlad C. Ghosh. Received Prof. A. R. Rao Researcher Awards at International Symposium on "Role of Herbals in Cancer Prevention and Treatment" at School of Life Sciences, Jawaharlal Nehru University (JNU), New Delhi, India, dated 9<sup>th</sup>-10<sup>th</sup> February 2016. **The first author was selected for the Best Oral Presentation Award.**
- Vinoth Rajendran, Mohsin Raza, Shilpa Rohra and Prahlad C. Ghosh. Evaluation of liposomal monensin in combination with artemisinin on growth inhibition of blood stages of *Plasmodium falciparum* (3D7) *in vitro*. Presented at International conference on "Emerging trends of Nanotechnology in drug discovery" (2014), organized by SV College, Department of Biochemistry, DU and University of Madeira, Portugal on May 26-27, 2014 held at University of Delhi South Campus. **The first author was selected for the Best Poster Award.**
- Vinoth Rajendran, Manendra Pachauri and Mohsin Raza were selected as Biotechnology Entrepreneurship student Team to Participate in the "ABLE-BEST INDIA 2014 Entrepreneurship Workshop, held at Fortune Select Trinity Hotel, Bangalore., on October 13-17, 2014. **The team members were awarded travel fellowship.**
- Vinoth Rajendran and Prahlad C. Ghosh (2014). Evaluation of therapeutic efficacy of liposomal monensin for the treatment of malaria (*P. berghei* infection) in a murine model" at International Conference on Chemical Biology: Disease mechanism and therapeutics-2014, Hyderabad, A.P., India, 6-8 February, 2014.
- Brijesh Rathi, Anil K. Singh, Neelu Singh, N. Latha, Vinoth Rajendran, **Prahlad C. Ghosh** and Brajendra K. Singh (2014). "Phthalimides as potent anti-malarial agents embodying cyclic amine scaffolds" presented at International Conference on Chemical Biology: Disease mechanism and therapeutics-2014, Hyderabad, A.P., India, 6-8 February, 2014.
- Invited as a Speaker in the International Conference "Nanomedicine 2013", Delivered a lecture on "PLGA

	nanoparticles mediated delivery of anti-malarial drugs for the treatment of malaria". 30-31 May, <b>2013</b> , New Delhi, India.
12.	Pooja Tiwari and <b>Prahlad C. Ghosh. (2013)</b> . Monensin encapsulated in poly-methyl methacrylate nanoparticles for anti-malarial therapy: at International Conference on Nanomedicine-2013, New Delhi, India, and 30-31 May, <b>2013</b> .
13.	Manendra Pachauri, Pooja Tiwari, R. Vinoth and <b>Prahlad C. Ghosh (2012)</b> . "Curcumin Loaded Poly(lactic-co-glycolic acid) Nanoparticles for Breast Cancer Treatment" at National Symposium on Nanobiotechnology (Indian Institute of Technology, Mandi) Himachal Pradesh, India. June 1-2, 2012.
14.	Invited to serve as a Chairperson of a session of the International Conference "Carcinogenesis 2012" on Frontiers in Carcinogenesis and Preventive Oncology: Molecular Mechanisms to Therapeutics, 19-21 November, <b>2012</b> , New Delhi, India.
15.	Manendra Pachauri and <b>Prahlad C. Ghosh. (2012) attended and presented</b> "Combination of Curcumin and Monensin Loaded Poly(lactic-co-glycolic acid) Nanoparticles for Cancer Therapy": at 3rd International Conference of Carcinogenesis Foundation- Frontiers in Carcinogenesis and Preventive Oncology Molecular Mechanisms to Therapeutics, New Delhi, India, 19-21 November, <b>2012</b> . <b>The first author was selected for Award of Excellence.</b>
16.	Enna Dogra Gupta, <b>Prahlad C. Ghosh</b> , Manchikatla Venkat Rajam attended and presented "RNAi-mediated silencing of polyamine biosynthesis genes for the control of growth of MCF7 cells <i>in vitro</i> ": at 3rd International Conference of Carcinogenesis Foundation- Frontiers in Carcinogenesis and Preventive Oncology Molecular Mechanisms to Therapeutics, New Delhi, India, 19-21 November, 2012.
<b>Total Publication Profile optional</b>	
	<b>65</b>
<b>Books</b>	<b>03</b>
<b>In Indexed/ Peer Reviewed Journals</b>	
	<b>55</b>
<b>Articles</b>	
	<b>04</b>
<b>Conference Presentations</b>	
	<b>03</b>
<b>Public Service / University Service / Consulting Activity</b>	
Member, Expert Committee meeting for finalizing Undergraduate Courses syllabi under Choice Based Credit System held on 22 <sup>nd</sup> June 2015	
External Expert Member of the Doctoral Committee, Indira Gandhi National Open University, 9 <sup>th</sup> April 2012 till date.	
External Expert Member of the Doctoral Committee, Jawahar Lal Nehru University, 2013 till date.	
Member of the Screening Committee meeting for the position of Professor and Associate Professor in Biochemistry, IGNOU on 17 <sup>th</sup> October 2014	
Member of Research Review Committee (RRC) of National Dope Testing Laboratory, Government of India, 9 <sup>th</sup> October 2014.	
Member of Selection Committee meeting for Professor, Associate Professor and Assistant Professor, University of Lucknow, Lucknow, U.P., 14 <sup>th</sup> October 2014.	
Invited by Global Innovation & Technology Alliance (GITA) under DST funded India-UK Collaborative Industrial R&D Programme as Technical Expert in project mentoring group for funding research project and quarterly review of the project, September 24, 2014.	
Invited speaker to deliver talk in the Science Campus in INSPIRE programme sponsored by Ministry of Science and Technology, Department of Science and Technology, Government of India held at Hitech Institute of Engineering and	

Technology, Ghaziabad 28<sup>th</sup> August 2014

Invited by Department of Animal Biotechnology, Lala Lajpat Rai University of Veterinary and Animal Sciences, Hissar, Haryana as Guest Faculty to deliver a lecture for their M.Sc. (Biotechnology) students on May 7, 2014.

Member of the Expert Committee for drafting the syllabus and formulating the strategy for evaluation of candidates for admission in Ph.D. course in Indira Gandhi National Open University (IGNOU) held on 28<sup>th</sup> March 2014.

Invited as Advisor to the Interview Board by the Staff Selection Commission to interview for the post of Research Assistant in the Office of National Centre for Disease Control, DGHS, New Delhi, 12<sup>th</sup> July 2013.

Member of the meeting of Expert Group under the Chairmanship of Dr. V.M. Katoch, Director General, ICMR to discuss about "Unqualified inclusion of liposomal Amphotericin B monograph in Indian Pharmaceutical and grant of indiscriminate licences wrongly as generic" held at ICMR on 2<sup>nd</sup> May 2013.

Invited as a Liposomes Expert to participate in the interactive meeting on "Medical Mycology" sponsored by Department of Biotechnology, Government of India held on 20-21 September 2011 at Jawahar Lal Nehru University, New Delhi

Member of the Selection Committee to interview for Assistant Professor (Biotechnology), GGS Indraprastha University, Delhi, 15<sup>th</sup> December 2010.

Member, Executive Council, University of Delhi, Delhi-10007 (August 22, 2004 to August 15, 2005).

Member, Academic Council, University of Delhi, Delhi-110007 (August 16, 2002 to August 15, 2005) and September 23, 2014 till date.

Dean, Faculty of Interdisciplinary and Applied Sciences, University of Delhi South Campus, New Delhi-110021. (September 2003 – August 15, 2005).

Head, Department of Biochemistry, University of Delhi South Campus, New Delhi-110021 (August 16, 2002-August 15, 2005, 23<sup>rd</sup> September 2014 till date).

Chairman, M.Phil.(Biotechnology) Committee, Faculty of Inter-disciplinary and Applied Sciences, University of Delhi South Campus, New Delhi-110021 (July 16, 2004 - August 2005), and act as a co-ordinator w.e.f. August 2005 – till date

Chairman, maintenance of animal house, Incinerator and radioactive waste disposal facility Committee w.e.f. March 18, 2008 till date.

Vice Chancellor Nominee of the Executive Council on the Managing Committee of Saramati P.G. Men's Hostel at South Campus w.e.f. 15.10. 2008-14.10.2013.

Radiation Safety Officer of South Campus.

Member of the Governing Body of several colleges of D.U.

Member Secretary, Institutional Biosafety Committee (IBSC), University of Delhi South Campus, New Delhi w.e.f. September 2003-2016.

Member Secretary, Institutional Animal Ethics Committee (IAEC), University of Delhi South Campus, New Delhi w.e.f. November 1999 till date.

Professional Societies Memberships
Member, International Liposome Society Life Member of Indian Association of Cancer Research Life member of Society of Biological Chemists (India) Life Member of Indian Society of Cell Biology Life Member of Indian Science Congress Association Life Member of Indian Immunology Society Life Member of Association of Microbiologists of India
Projects (Major Grants / Collaborations)
12
Other Details