

20th Refresher Course in Life Sciences

27th January – 20th February, 2015

Course Coordinators:-

1. Dr. S. Gorinath, Associate Professor, school of Life Sciences, JNU, Email : sgourinath@mail.jnu.ac.in
2. Dr. Rohini Muthuswami, Associate Professor, school of Life Sciences, JNU, Email : rohini_m@mail.jnu.ac.in

1. Summary

Total No. of applicants Selected by selection Committee	44
Total no. of Special requests considered	5
Total no. of confirmations received	25
Total no. of Cancellations received	24
Total no. of Last minute Cancellations	7
Total no. of Applicants reported for the Course	18

2. List of Applicants reported for the Course

S.NO	NAME	STATE	SEX	SUBJECT
1	GAURI GARG	Delhi	F	ZOOLOGY
2	NIRALAL RAMCHIARY	Delhi	M	LIFE SCIENCES
3	NAVEENA DINODIA	Haryana	F	BOTANY
4	RAZIA PARVEEN	Jammu & Kashmir	F	BOTANY
5	ANIL KUMAR	Jharkhand	M	BIOTECHNOLOGY
6	MABEL MERLEN JACOB	Kerala	F	MICROBIOLOGY
7	GIGI POULOSE	Kerala	F	ZOOLOGY
8	NAMRATA THAPA TAMANG	Sikkim	F	ZOOLOGY
9	M.S PREMALATHA	Tamil Nadu	F	MICROBIOLOGY
10	SUDARSHANA SHARMA	Uttar Pradesh	F	BIOCHEMISTRY
11	VIJAY KUMAR	Uttar Pradesh	M	ZOOLOGY
12	NISHA VERMA	Uttar Pradesh	F	BOTANY
13	MEENA YADAV	Uttar Pradesh	F	ZOOLOGY
14	AHMAD PERVEZ	Jammu & Kashmir	M	ENTOMOLOGY
15	PAMPOSH BHAT	Delhi	F	BOTANY
16	KANTA RANI	Haryana	F	BOTANY

17	VANDANA KALRA	Haryana	F	ZOOLOGY,ENTOMOLOGY
18	BASUDHA SHARMA	Uttar Pradesh	F	BOTANY

3. Schedule

WEEK – I
Fundamentals

DATE	9:00am-10: 30am	10:45am-12: 15pm	12:30pm-2:00pm	Lunch	3:00pm-4.30 pm
Tuesday 27 January 2015	Registration	Inaugural Lecture Plant Biotechnology Prof. AsisDatta NIPGR asis_datta@nipgr.ac.in 26742750	On Photosynthesis Prof. BC Tripathy SLS bctripathy@mail.jnu.ac.in 4524		
Wednesday 28 January 2015	Biomolecules-1 Prof. Devapriya Chaudhary SBT devach@mail.jnu.ac.in 4077	Biomolecules-II Dr. SnehaSudhaKomath SLS sskomath@yahoo.com 4502	Prof. Yadava pky0200@mail.jnu.ac.in 4520		
Thursday 29 January 2015	Non coding RNA and their applications RohiniMuthuswami SLS rohini_m@mail.jnu.ac.in 9313042652	Functional Genomics K. Natarajan SLS nat0200@mail.jnu.ac.in 4512	Photoreceptors and optogenetics SuneelKateriya DU/SBT Suneel77@yahoo.com 09312315704		
Friday 30 January 2015	The Central Dogma of Molecular Biology Prof. P.C. Rath SLS pcrath@mail.jnu.ac.in 4525	Stem cells and their applications AsokMukhopadhyay NII ashok@nii.ac.in 26703781	Genetics Prof. RNK Bamezai bame0200@mail.jnu.ac.in 4518		BioInformatics N. Subbarao SCIS nsrao@mail.jnu.ac.i n 4710

WEEK II

DATE	9:00am-10: 30 am	10:45am-12:15 pm	12:30pm- 2:00pm	LUNCH	3:00pm-4.30 pm
Monday 2 February, 2015	Ashwani Pareek SLS	Alok Sinha NIPGR alok@nipgr.ac.in 9868474090	Immune response in plants Ashis Nandi SLS ashis-nandi@mail.jnu.ac.in 4152		<i>Next Generation Sequencing and application genomics</i> Debasis Chattopadhyay NIPGR debasis@nipgr.ac.in 9868240645
Tuesday 3 February, 2015	Techniques used for studying brain function B.N. Mallick SLS remsbnm@yahoo.com 4522	Proteomics A. Srinivasan AIIMS srini@aiims.ac.in 26594240	Introduction to structural biology Dr. S. Gourinath (Coordinator)		Interactions of nanoparticles with biological systems Rajiv Saxena South Asian University rsaxena@southasianuniversity.org
Wednesday 4 February, 2015	Nanotechnology HB Bohidar Special center for nanosciences/SPS bohidar@hotmail.com 4699/4636	Reaching beyond 3 Vs of 'Big Data' : Using R S. Ramachandran IGIB ramu@igib.res.in 29879130	<i>The search for a nerve growth factor in the Earthworm</i> Beena Pillai IGIB beena@igib.in beenapillai@igib.res.in 29879303		Protein folding methods Rajiv Bhat SBT rajivbhat@mail.jnu.ac.in 4086
Thursday, 5 February, 2015	Fluorescence microscopy and their applications Dr. Surajit Sarkar, Delhi University sarkar@south.du.ac.in +91-9968350077	Electron Microscope Manidipa Banerjee IIT, Delhi mbanerjee@bioschool.iitd.ac.in 91-11-26597538	Application of FACS to cell biology Niti Puri SLS niti_puri@hotmail.com 8742		KJ Mukherjee kjmukherjee@mail.jnu.ac.in 4087

Friday 6 February, 2015	Techniques Protein XRD AIRF Visit	Techniques TEM AIRF Visit	Techniques Confocal microscopy/Live cell Imaging AIRF Visit		Techniques SEM AIRF Visit
----------------------------	---	---------------------------------	--	--	---------------------------------

WEEK III
Human Diseases and Drug Development

DATE	9:00am-10: 30 am	10:45am-12:15 pm	12:30pm- 2:00pm	LUNCH	3:00pm-4:30pm
Monday 9 February, 2015 Session on Bacterial infections	Overview of diseases NK Ganguly nkganguly@nii.ac.in National Institute of Immunology, ArunaAsaf Ali Marg	Tuberculosis Prof. Jaya Tyagi AIIMS jstyagi@aiims.ac.in	<i>Natural History of H. pylori Infection: Targets and Drug Discovery</i> RupeshChaturvedi SBT rupesh.chaturvedi.jnu@gmail.c om 9971018697		<i>Cellular Transcriptional Memory: Nuclear Receptors as Epigenetic Marks</i> RakeshTyagi SCMM, JNU rkyagi@yahoo.com 8741
Tuesday 10 February, 2015	Candida albicans Prof. R. Prasad SLS, JNU rp47@mail.jnu.ac.in 4509	BIOINFORMATICS Indira Ghosh SCIS, JNU indira0654@gmail.com	BIOINFORMATICS Indira Ghosh SCIS, JNU indira0654@gmail.com		PRACTICAL SESSION Bioinformatics
Wednesday 11 February, 2015 Session on protozoan infections	Amoeba Prof. Alok Bhattacharya SLS, JNU alok.bhattacharya@g mail.com 4516	Malaria Pushkar Sharma National Institute of Immunology, ArunaAsaf Ali Marg pushkar@nii.ac.in 26703791	Leishmania Amitabha Mukhopadhyay leish.amit@gmail.com National Institute of Immunology, ArunaAsaf Ali Marg		Cancer RP Singh SLS rana_singh@mail.jnu.a c.in 4503

<p>Thursday, 12 February, 2015 Session on Lifestyle diseases</p>	<p>Cardiac diseases ShyamalGoswami SLS skgoswami@mail.jnu.ac.in 4510</p>	<p>Prof. AtulJohri SLS</p>	<p>Heart of the liver Prof. S.K.Sarin ILBS shivsarin@gmail.com</p>	<p>Neurobiology RP Maleyvar rajendra77m@gmail.com 09968098557</p>
<p>Friday 13 February, 2015 Session on Virology</p>	<p>Reety NCBS reetya@istem.res.in Video Conferencing</p>	<p>Debi Sarkar South Campus, DU dpsarkar59@gmail.com</p>	<p>Plant Viral infections SupriyoChakraborty schakaraborty@mail.jnu.ac.in 4153 JNU</p>	<p>Prof. Govindjee SBT/ILLUNIOUS JNU gov@illunious.edu</p>

WEEK IV
Vaccine and drug development

DATE	9:00am-10: 30 am	10:45am-12:15 pm	12:30pm- 2:00pm	3:00pm-4.30 pm
Monday 16 February, 2015	RakeshBhatnagar SBT rakeshbhatnagar@mail.jnu.ac.in 4079	Amit Sharma ICGEB	Group Photograph at 12.15 p.m.	SLS CIF Visit
Tuesday 17 February, 2015	Prateek Sharma TERI Univ 9899678802	Dr. Deepak Gaur SBT/JNU	Malaria Drug Development SumanDhar SCMM skdhar202@yahoo.co.in skdhar@mail.jnu.ac.in 8774	Biology of Aging Prof. Rameshwar Singh
Wednesday 18 February, 2015	Presentation			
Thursday, 19 February, 2015	Evaluation			
Friday 20 February, 2015	Feed Back Session	Valedictory Lecture Dr. SatyajitRath NII	Interaction with Prof. Sopory VC, JNU	

4. List of Resource Persons

Name of Resource Person	Topic	Contact Details
Prof. Asis Datta	<i>Plant Biotechnology</i>	National Institute of Plant Genome Research Aruna Asaf Ali Marg, P.O. Box No. 10531 New Delhi – 110067 Email: asis_datta@rediffmail.com
Prof. BC Tripathy	<i>Responses of Crop Plants to climate change</i>	School of Life Science Jawaharlal Nehru University, New Delhi – 110067 Email: bctripathy@mail.jnu.ac.in
Prof. Devapriya Chaudhary	<i>Biomolecules-1</i>	School of Biotechnology Jawaharlal Nehru University New Delhi – 110067 Email: devach@mail.jnu.ac.in
Dr. Sneha Sudha Komath	<i>Biomolecules-II</i>	School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: sskomath@mail.jnu.ac.in
Prof. Yadava		School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: pky@mail.jnu.ac.in

Dr. Rohini Muthuswami (Coordinator)	<i>Non coding RNA and their applications</i>	School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: rohini_m@mail.jnu.ac.in
Prof. K. Natarajan	<i>Functional Genomics using Microarrays: Dissecting the Regulation of Iron Homeostasis in the Human Fungal Pathogen Candida albicans</i>	School of Life Sciences Jawaharlal Nehru University New Delhi - 110067 Email: nat0200@mail.jnu.ac.in
Dr. Suneel Kateriya	<i>Photoreceptors and optogenetics</i>	Department of Biochemistry South Campus, University of Delhi New Delhi - 110021 Email: Suneel77@yahoo.com
Prof. P.C. Rath	<i>The Central Dogma of Molecular Biology</i>	School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: pcrath@mail.jnu.ac.in
Prof. Asok Mukhopadhyay	<i>Stem cells and their applications</i>	National Institute of Immunology Aruna Asaf Ali Road New Delhi – 110067 Email: ashok@nii.ac.in
Prof. RNK Bamezai	<i>Genetics</i>	School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: bame0200@mail.jnu.ac.in
Prof. N. Subbarao	<i>Bioinformatics</i>	School of Computational & Integrated Sciences

		Jawaharlal Nehru University New Delhi – 110067 Email: nsrao@mail.jnu.ac.in
Prof. Alok Sinha		National Institute of Plant Genome Research Asaf Ali Marg, P.O. Box No. 10531 New Delhi - 110 067
Prof. Ashwani Pareek		School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: ashwanip@mail.jnu.ac.in
Prof. Ashis Nandi	<i>Basics of Plant Immune system How plants get infected and how plants respond to the infections.</i>	School of Life Sciences Jawaharlal Nehru University New Delhi – 11006 Email: ashis-nandi@mail.jnu.ac.in
Prof. Debasis Chattopadhyay	<i>Next Generation Sequencing and application genomics</i>	National Institute of Plant Genome Research Asaf Ali Marg, P.O. Box No. 10531 New Delhi - 110 06 Email: debasis@nipgr.ac.in
Prof. B.N. Mallick	<i>Techniques used for studying brain function</i>	School of Life Sciences Jawaharlal Nehru University New Delhi – 110067 Email: remsbnm@yahoo.com

Prof. A. Srinivasan	<i>Proteomics</i>	Department of Biophysics All India Institute of Medical Sciences Ansari Nagar East, Gautam Nagar <u>New Delhi – 110029</u> Email: srini@aiims.ac.in
Prof. S. Gourinath	<i>Introduction to structural biology VISUALIZATION OF MOLECULES : latest developments in structure determination methods</i>	School of Life Sciences Jawaharlal Nehru University <u>New Delhi – 110067</u> Email: sgn9@hotmail.com
Prof. Rajiv Saxena	<i>Interactions of nano-particles with biological systems</i>	Dean, Faculty of Life Sciences and Biotechnology South Asian University (A Joint Venture of SAARC Countries), Akbar Bhawan, Chanakyapuri <u>New Delhi 11002</u> Email: rksaxena@southasianuniversity.org
Prof. HB Bohidar	<i>INTRODUCTION TO NANOSCIENCE: Fundamentals to Applications</i>	Chairperson Special Centre for Nanosciences Jawaharlal Nehru University <u>New Delhi – 110067</u> Email: bohidar@hotmail.com

<p>Prof. S. Ramachandran</p>	<p><i>Reaching beyond 3 Vs of 'Big Data' : Using R</i></p>	<p>Institute of Genomics & Integrative Biology Room No. 130 CSIR-IGIB, Sukhdev Vihar, Mathura Road, <u>New Delhi - 110 002</u> Email: ramu@igib.res.in</p>
<p>Prof. Beena Pillai</p>	<p><i>The search for a nerve growth factor in the Earthworm</i></p>	<p>Institute of Genomics & Integrative Biology Room No. 130 CSIR-IGIB, Sukhdev Vihar, Mathura Road <u>New Delhi - 110 025</u> Email: beena@igib.in beenapillai@igib.res.in</p>
<p>Prof. Rajiv Bhat</p>	<p><i>Protein Structure and Folding: Challenges in preventing misfolding and aggregation of proteins</i></p>	<p>School of Biotechnology, JNU Email: rajivbhat@mail.jnu.ac.in</p>
<p>Dr. Surajit Sarkar</p>	<p><i>Microscopy: An essential tool for biomedical research</i></p>	<p>Department of Genetics University of Delhi South Campus Benito Juarez Road, Dhaula Kuan <u>New Delhi - 110021</u> Email: sarkar@south.du.ac.in</p>

Dr. Manidipa Banerjee	<i>Electron Microscope</i>	Indian Institute of Technology Hauz Khas, <u>New Delhi-110 016</u> Email: mbanerjee@bioschool.iitd.ac.in
Dr. Niti Puri	<i>Application of FACS to cell biology</i>	School of Life Sciences Jawaharlal Nehru Universit <u>New Delhi – 110067</u> Email: niti_puri@hotmail.com
Prof. KJ Mukherjee		School of Biotechnology, JNU Email: kjmukherjee@mail.jnu.ac.in
Prof. NK Ganguly	<i>Overview of diseases</i>	National Instituee of Immunology, Aruna Asaf Ali Marg, New Delhi Email : nkganguly@nii.ac.in
Prof. Jaya Tyagi	<i>Tuberculosis</i>	All India Institute of Medical Sciences Ansari Nagar, New Delhi 1100029 Email: jstyagi@aiims.ac.in
Rupesh Chaturvedi	<i>Natural History of H. pylori Infection: Targets and Drug Discovery</i>	School of Biotechnology, JNU, New Delhi Email : rupesh.chaturvedi.jnu@gmail.c
Rakesh Tyagi	<i>Cellular Transcriptional Memory: Nuclear Receptors as Epigenetic Marks</i>	Special Centre for Molecular Medicines, JNU Email: rkyagi@yahoo.com
Prof. R. Prasad	<i>Candida albicans</i>	School of Life Sciences, JNU Email : rp47@mail.jnu.ac.in
Prof. Indira Ghosh	<i>BIOINFORMATICS</i>	School of Computational & Integrative

		Sciences, JNU Email : indira0654@gmail.com
Prof. Alok Bhattacharya	<i>Amoebiasis and the Pathogen Entamoeba histolytica</i>	School of Life Sciences, JNU Email : alok.bhattacharya@gmail.com
Prof. Pushkar Sharma	<i>Malaria</i>	National Institute of Immunology, Aruna Asaf Ali Marg, New Delhi Email : pushkar@nii.ac.in
Amitabha Mukhopadhyay	<i>Leishmania</i>	National Institute of Immunology Aruna Asaf Ali Marg, New Delhi - 110067, Email : leish.amit@gmail.com
R.P.Singh	<i>Cancer</i>	School of Life Sciences, JNU Email : rana_singh@mail.jnu.ac.in
Shyamal Goswami	<i>Cardiac diseases</i>	School of Life Sciences, JNU Email : skgoswami@mail.jnu.ac.in
Prof. Atul Johri		School of Life Sciences, JNU
Prof. Sarin	<i>Heart of Liver</i>	Institute of Liver and Biliary Sciences D-1, Vasant Kunj, New Delhi Email :
R. P. Maleyar	<i>HABITS – OUR FRIENDS & FOES</i>	Former Professor of Zoology
Reety		Email : reetya@istem.res.in
Dr. Debi Sarkar	<i>Targeted Gene Delivery to Liver cells Using Engineered Sendai Viral Envelopes:</i>	Dept. of Biochemistry, Delhi University, Delhi Email : dpsarkar59@gmail.com

	<i>A Preclinical Experience</i>	
Supriya Chakraborty	<i>Plant Viral Infections</i>	School of Life Sciences, JNU Email : schakaraborty@mail.jnu.ac.in
Prof. Govindjee	<i>Photosynthesis</i>	Illinois
Rakesh Bhatnagar	<i>RECOMBINANT ANTHRAX VACCINE: LABTO CLINICAL TRIALS</i>	School of Biotechnology, JNU Email: rakeshbhatnagar@mail.jnu.ac.in
Amit Sharma	<i>Malaria Parasite Structural Biology</i>	International Centre for Genetic Engineering and Biotechnology Aruna Asaf Ali Marg, New Delhi 67 E-mail: asharma@icgeb.res.
Prof. Prateek Sharma	<i>Environmental Modelling and its Applications</i>	Coca-Cola Department of Regional Water Studies TERI University
Prof. Deepak Gour	<i>Malaria in the Developing World</i>	School of Biotechnology, JNU
Suman Dhar	<i>Malaria Drug Development</i>	Special Centre for Molecular Medicines, JNU Email: skdhar202@yahoo.co.in skdhar@mail.jnu.ac.in
Prof. Rameshwar Singh	<i>Brain: Seat of consciousness</i>	School of Life Sciences, JNU
Prof. Satyajit Rath	<i>Valedictory Lecture</i>	National Institute of immunology Email: satyajit@nii.res.in
Prof. Sopory		Vice Chancellor, JNU