

Schedule of Training Programme

(15th January, 2019 – 25th January, 2019)

Date	Topic	Time	Scientist Name
15-01-2019 (Tuesday)	Application of bioinformatics in real life	11:00 AM – 12:00 PM	Prof. G.P.S. Raghava , Head & Professor, Center for Computational Biology, IIIT, New Delhi
		12:00 PM – 12:30 PM	Interaction with Prof. G.P.S. Raghava
	Integration of computational and experimental approaches - A case study of identifying inhibitors for <i>Mycobacterium tuberculosis's</i> Dihydrodipicolinate synthase	12:45 PM – 2:00 PM	Dr. S. Ramachandran Senior Principal Scientist, CSIR-IGIB, New Delhi
16-01-2019 (Wednesday)	An introduction to <i>in-silico</i> drug design	10:00 AM – 11:30 AM	Avinash Mishra Managing Director & Co-founder, Novo Informatics
	Combating infectious diseases by bioinformatics approach	11:45 AM – 1:15 PM	Manish Kumar Assistant Professor, Department of Biophysics, South Campus, University of Delhi
	Lunch Break	1:15 PM – 2:00 PM	
	Standard workflow of <i>in-silico</i> drug design	2:00 PM – 3:30 PM	Aditya Arya Scientist, PRTF
17-01-2019 (Thursday)	Sequence and structure database	10:00 AM – 11:30 AM	Vivek Dhar Dwivedi Scientist, PRTF
	Biomarkers in drug design	11:45 AM – 1:15 PM	Mairaj Ahmed Ansari Assistant Professor, Jamia Hamdard, New Delhi
	Lunch Break	1:15 PM – 2:00 PM	
	Protein structure and visualization	2:00 PM – 3:00 PM	Aditya Arya Scientist, PRTF
	Practical session	3:00 PM – 4:30 PM	Aditya Arya and Vivek Dhar Dwivedi Scientist, PRTF
18-01-2019 (Friday)	Methods for protein structure prediction	10:00 AM – 11:30 AM	Amresh Prakash Young Scientist-SERB School of Computational & Integrative Sciences, JNU, New Delhi
	Structure guided design of Potential kinase Inhibitor: A correlation between <i>in silico</i> and <i>in vitro</i> studies	11:45 AM – 1:15 PM	Md. Imtaiyaz Hassan Assistant Professor, Center for Interdisciplinary Research in Basic Sciences, JMI, New Delhi
	Lunch Break	1:15 PM – 2:00 PM	
	Basics of Biomolecular interaction	2:00 PM – 3:00 PM	Aditya Arya Scientist, PRTF
	Practical session	3:00 PM – 4:30 PM	Interaction with Prof. G.P.S. Raghava

21-01-2019 (Monday)	Drug Design: A case study	10:00 AM – 11:30 AM	Amresh Prakash Young Scientist-SERB School of Computational & Integrative Sciences, JNU
	Active site prediction in candidate drug-targets	11:45 AM – 1:15 PM	Avinash Mishra Managing Director & Co-founder, Novo Informatics
	Lunch Break	1:15 PM – 2:00 PM	
	Introduction to various chemical-compound database	2:00 PM – 3:00 PM	Avinash Mishra Managing Director & Co-founder, Novo Informatics
	Practical session	3:00 PM – 4:30 PM	Avinash Mishra Managing Director & Co-founder, Novo Informatics
22-01-2019 (Tuesday)	Virtual Screening and Basic approaches in molecular docking	10:00 AM – 12:00 PM	Avinash Mishra Managing Director & Co-founder, Novo Informatics
	Identification and targeting of DNA as drug target	12:15 PM – 1:15 PM	Akhilesh Mishra Research Scholar, SCFBio, Department of Chemistry, IIT Delhi
	Lunch Break	1:15 PM – 2:00 PM	
	Molecular interaction analysis in drug design	2:00 PM – 3:00 PM	Avinash Mishra Managing Director & Co-founder, Novo Informatics
	Practical session	3:00 PM – 4:30 PM	Avinash Mishra and Vivek Dhar Dwivedi Scientist, PRTF
23-01-2019 (Wednesday)	Problem identification and hypothesis building	10:00 AM – 11:30 AM	Aditya Arya Scientist, PRTF
	Hit identification and develop a discovery platform against multiple targets associated with metabolic disorders and other diseases	11:45 AM – 1:15 PM	Dr. Shailendra Asthana Scientist C, Translational Health Science and Technology Institute, Faridabad
	Lunch Break	1:15 PM – 2:00 PM	
	Practical session Effective literature survey and group assignment Topics: Type 2 diabetes, Dengue virus, Neurological disorder and Influenza virus	2:00 PM – 4:30 PM	Avinash Mishra, Vivek Dhar Dwivedi, Amresh Prakash and Aditya Arya
24-01-2019 (Thursday)	Comparative analysis of various bioinformatics tools used in drug design	10:00 AM – 11:30 AM	Aditya Arya or Vivek Dhar Dwivedi Scientist, PRTF
	Theory and Practice of CADD	11:45 AM – 1:15 PM	Abhilash Jayaraj Project Scientist, SCFBio, Department of Chemistry, IIT Delhi
	Lunch Break	1:15 PM – 2:00 PM	
	Practical session Problem identification and hypothesis building	2:00 PM – 4:30 PM	Aditya Arya or Vivek Dhar Dwivedi Scientist, PRTF

25-01-2019 (Friday)	Group presentation and project assignment	11:00 AM – 1:15 PM	Aditya Arya and Vivek Dhar Dwivedi Scientist, PRTF
	Lunch Break	1:15 PM – 2:00 PM	
	Group presentation and project assignment	2:00 PM – 3:00 PM	Aditya Arya and Vivek Dhar Dwivedi Scientist, PRTF
	Practical session	3:00 PM – 4:30 PM	Interaction with Prof. G.P.S. Raghava
28 Jan – 05 Mar	Experimental work, Thesis writing/Presentation and Certificate distribution		

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