PROGRAMME

30/01/2016, Saturday

| | Arrive at Lonavala from Mumbai and check into room. Pick up name tags and meeting schedule, put up posters. Arrivals between 9:30am and 11am will be provided breakfast. |
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| 12:30-2:00 | Lunch |
| 2:00-2:10 | Mahabaleshwar seminar series: Spirit of discussion, promote scientific interactions between students/post-doctoral fellows and faculty |
| | Session I: elegans cell biology |
| | Session chairs: Virupakshi Soppina, IIT-Gandhinagar and Anoopkumar Thekkuveetil, Sree Chitra Institute for Medical Sciences and Technology |
| 2:10-3:00 | Ronen Zaidel-Bar, National University of Singapore: Regulation of actomyosin contractility (45 min talk) |
| 3:00-3:20 | Anup Padmanabhan, National University of Singapore: Non-junctional adhesion-independent E-cadherin clusters regulate the actomyosin cortex and slow cytokinesis (12min talk) |
| 3:20-3:40 | Parul Sood, TIFR: Crowded locations along the neuronal process regulate cargo flux (12min talk) |
| 3:40-4:10 | Tea break |
| 4:10-4:45 | Sachin Kotak, IISc: Aurora A kinases dictates proper spindle positioning from worms to humans (30 min talk) |
| 4:45-5:05 | Swati Pal, The hospital for sick children Toronto: <i>C. elegans</i> CCM-3 promotes biological tube development by regulating vesicle trafficking and polarity (12min talk) |
| 5:05-5:25 | Sharika Rajashekaran, Alagappa University: Analysis of differentially regulated proteins during Gram positive and Gram negative bacterial infection in <i>Caenorhabditis elegans</i> (12min) |
| 5:30-7:30 | Posters and Tea |
| 7:30-9:00 | Dinner |
| 8:30 | "Getting the most out of graduate school". Panel members: Kavita Babu (IISER-Mohali), K. Subramaniam (IIT-Madras), Antony Jose (Univerity of Maryland), Arjumand Ghazi (University of Pittsburgh), Sudip Mondal (University of Texas) and Abhishek Bhattacharya (Columbia University) |
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| | 31/01/2016, Sunday |
| 7:30-9:00 | Breakfast |
| | Session II: Molecules to circuitry |
| | Session chairs: Jaya Bandyopadhyay, Maulana Abdul Kalam University of Technology and Ashwini Godbole, Institute of Trans- disciplinary Sciences and Technology |
| 9:00-9:50 | Michael Nonet, WUSM: Cellular mechanisms controlling mechanosensory neuron synapse development (45 min talk) |
| 9:50-10:25 | Sandhya Koushika, DBS-TIFR: Regulation of cargo transport in neurons (30 min talk) |
| 10:25-10:45 | Abhishek Bhattacharya, Columbia University: Stress induced plasticity of the C. elegans electrical synapse network (12 min talk) |
| 10:45-11:15 | Tea Break |
| 11:15-11:50 | Kavita Babu, IISER-Mohali: Understanding the molecular mechanism of RIG-3 functioning at the synapse (30 min talk) |
| 11:50-12:25 | Varsha Singh, IISc: An odorsensory circuit for aversion response of C. elegans to bacterial pathogens (30 min talk) |
| 12:25-12:45 | Madhushree Kamak, TIFR: UNC-16/JIP-3 regulates early steps of synaptic vesicle protein trafficking via LRK-1/LRRK-2 and the AP1 complex (12min talk) |
| 12:45-1:05 | Pratima Pandey, IISER-Mohali: Understanding the role of RIG-3 at the C. elegans neuromuscular junction (12min) |
| 1:05-2:15 | Lunch |

Session III: Circumventing ageing

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| | Session chair: Rakesh Pandey, CSIR-CIMAP |
| 2:15-3:05 | Arnab Mukhopadhyay, NII: A panoply of post-transcriptional regulatory events determine dietary restriction-induced longevity (45 min talk) |
| 3:05-3:40 | Arjumand Ghazi, University of Pittsburgh: Fat, Fertility and Aging Worms (30 min talk) |
| 3:40-4:00 | Jamuna Subramaniam, Sri Ramachandra Medical University: Reserpine utilizes novel neuronal pathways for lifespan extension and alleviation of Amyloid beta toxicity in <i>Caenorhabditis elegans</i> (12min talk) |
| 4:00-4:20 | Akanksha Pant, CSIR-CIMAP: b-caryophellene ameliorates age-related decline in mitochondrial turnover and b-amyloid induced toxicity in <i>Caenorhabditis elegans</i> (12min) |
| 4:20-6:30 | Posters and Tea |
| 6:00-7:30 | Murder in the ELEGANS mansion (team game) |
| 7:30-9:00 | Dinner and bonfire |
| 8:30 | "Academic careers in different settings in India: rewards and challenges" Panel members: Virupakshi Soppina (IIT-Gandhinagar), Kavita Babu (IISER-Mohali), Varsha Singh (IISc), Rakesh Pandey (CSIR-CIMAP), Jamuna Subramaniam (Sri Ramachandra Medical University), Medha Rajadhyaksha (Sophia College) |
| | 01/02/2016 3/6 1 |
| | 01/02/2016, Monday |
| 7:30-9:00 | Breakfast |
| | Session IV: Genome editing and inheritance |
| | Session chair: Arnab Mukhopadhyay, NII |
| 9:00-9:50 | Geraldine Seydoux, JHMI: High efficiency genome editing using Cas9 ribonucleoprotein complexes (45 min talk) |
| 9:50-10:25 | Antony Jose, University of Maryland: Inheritance of RNA from somatic cells to progeny in C. elegans (30 min talk) |
| 10:25-11:10 | Bhagwati Gupta, McMaster University: Genetic control of reproductive system development in nematodes (30 min talk) |
| 11:10-11:30 | Tea Break |
| | Session V: Signalling and gene regulation |
| | Session chair: P. Rajini, CFTRI |
| 11:30-12:10 | Gautam Kao, University of Gothenburg: ASNA-1 and insulin secretion: Lessons from worms for mammalian cell biology (30 min talk) |
| 12:10-12:30 | G. P. Manjunath, IISER-Mohali: C. elegans Homeodomain Protein DVE-1 regulates transcription in response to Insulin/Insulin like Growth Factor (IGF) Signaling (12min talk) |
| 12:30-12:50 | Syed Tabrez, NII: Non-sense helps, sometimes! Role of post-transcriptional gene regulation during dietary restriction (12min) |
| 12:50-1:10 | Medha Rajadhyaksha, Sophia College: Lithium alters behavior of Caenorhabditis elegans under hypoxia by modulating HIF-1 (12min) |
| 1:10-1:30 | Latika Matai, CSIR-IGIB: Oxidative quality control regulates response to ER stress through translation control (12min) |
| 01:30-2:30 | Lunch |
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Session VI: Newer technologies

| | Session chair: Kisan Babu , University of Agricultural Sciences |
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| 2:30-2:50 | Crispers for gene knockout and targeted integration, Sigma Aldrich (12 min talk) |
| 2:50-3:10 | Siddharth Khare, IISc: Techniques to measure and exert forces in micro Newton range, applied to C. elegans (12min talk) |
| 3:10-3:30 | Sudip Mondal, University of Texas: A Large-scale high-throughput microfluidic screening platform for drug discovery using C. elegans disease models (12min talk) |
| 3:30-5:30 | Posters and Tea |
| 5:30-7:30 | Attendees can choose to walk to the dam or see other local attractions at Lonavala |
| 7:30-9:00 | Pool-side Dinner |
| 9:00 | Post Dinner party |
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| | 02/02/2016, Tuesday |
| 7:30-9:00 | Breakfast and Check out |
| | Session VII: Rewiring the nervous system after injury |
| | Session Chair: Apurba Koner, IISER-Bhopal |
| 9:00-9:35 | Anindya Ghosh-Roy, NBRC: Functional restoration after neuronal injury (30 min talk) |
| 9:35-10:10 | Strahil Pastuhov, Nagoya University: Regulation of axon regeneration by axotomy-induced serotonin signaling (30 min talk) |
| 10:10-10:30 | Sucheta Kulkarni, NCBS: UNC-16/JIP3 inhibits the function of the regeneration promoting isoform of DLK-1 (12min talk) |
| 10:30-11:00 | Tea Break |
| | Session VIII: Germline |
| | Session chair: Sachin Kotak, IISc |
| 11:00-11:50 | K. Subramaniam, IIT-Madras: A decade-long obsession with puf-8 and germ cell decisions (45 min talk) |
| 11:50-12:20 | Anilkumar Ganga, IIT-Kanpur: PUF-8 facilitates synaptonemal complex formation by promoting the perinuclear localization of dynein (12min) |
| 12:30-2:00 | Lunch |
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| 2:00 | Departure to Mumbai |
| | Visit to Bhaja caves (for those leaving late or leaving on 03/02/2016) |