



Annual Review of Research,

inStem, March 2019

POSTERS, Atrium, inStem

1. Regulation of Cell Fate (RCF)

1. An E3 ubiquitin ligase that mediates effective switching to a glycolytic state.

Vineeth V^{1,2}, Swagata Adhikary², Sunil Laxman²

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2. ChIPing out how a magic molecule turbocharges cell growth.

Rajalakshmi Srinivasan¹, Adhish Walvekar¹, Aswin Seshasayee², Sunil Laxman¹

¹ RCF, Institute for Stem Cell Science and Regenerative Medicine

² National Centre for Biological Sciences

3. A tale of rich and poor amino acid sensing.

Ritu Gupta¹, Swagata Adhikary¹, Nidhi Jain¹, Sunil Laxman¹

¹ RCF, Institute for Stem Cell Science and Regenerative Medicine

4. An early requirement for methionine determines T-regulatory cell survival during growth factor withdrawal.

Pinki Gahlot¹, Shree Padma¹, Adhish Walvekar¹, Sunil Laxman¹, Apurva Sarin¹

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5. Spatial regulation of Notch4 underlies signalling that protects from genomic damage.

Neetu Saini^{1,2}, Apurva Sarin¹

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6. Genetic screen to identify myeloid-specific regulators of High sugar diet tolerance in Drosophila.

Preethi P¹, Anushree Mahanta¹, Vipin A V¹, Vinod Kumar D¹, Neetu Saini^{1,2}, Apurva Sarin¹, Tina Mukherjee¹

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7. Dopaminergic Regulation of Drosophila Hematopoiesis

Ankita Kapoor^{1,2}, Padmavathi A³, Manisha Goyal¹, Tina Mukherjee¹

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8. GABA Shunt regulates Redox homeostasis in *Drosophila* blood progenitors.

Manisha^{1,2}, Ajay Kumar^{1,2}, Sukanya Madhwal^{1,3}, Tina Mukherjee¹

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9. *Drosophila* blood cells regulating systemic lipid homeostasis

Sukanya Madhwal^{1,2}, Anusree Mahanta¹, Preethi Reddy¹, Nivedita Kamath¹, Hariraman K¹, Tina Mukherjee¹

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10. Wnt signalling-dependent expression of *Chk1/grapes* is necessary for G2 arrest in *Drosophila* tracheoblasts.

Amrutha Kizhedathu¹, Rose S K¹, Archit Bagul², Puja Verma¹, Arjun Guha¹

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11. Resistance of airway epithelial cells to oxidative and genotoxic stress is dependent on the Fragile X Mental Retardation Protein 1 (FMRP1).

Deblina Sain Basu¹, Rital Bhavsar¹, Aditya Deshpande¹, Sai Manoz Lingamallu¹, Harlin Kaur¹, Nivedita Hariharan¹, Aditi Bhattacharya², Sumantra Chattarji², Ravi Muddashetty², Rajesh Thimulappa⁴, Dasaradhi Palakodeti³, Arjun Guha¹

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12. Characterizing the time course of the senescence phenotype in different lung cell lines.

Imtiyaz Gulami¹, Arjun Guha¹

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2. Centre for Inflammation & Tissue Homeostasis (CITH)

13. Role of regulatory T cells in intradermal adipose tissue homeostasis

Edries Yousaf Hajam^{1,3}, J. Haarshaadri¹, ShaheenThekkumthala¹, Patricia Panikulam¹, Abhik Dutta¹, Husain Miyajiwala¹, Rupali Gund¹, Apurva Sarin², Colin Jamora¹

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³ Shanmugha Arts, Science, Technology & Research Academy, Thanjavur, Tamil Nadu, India

14. Molecular and functional Heterogeneity of fibroblasts in fibrosis and tumor stroma.

Sunny Kataria^{1*}, Gaurav Kansagara^{2*}, Isha Rana², Krithika Badarinath¹, Rania Zaarour², Rakesh Dey², Akash Gulyani², Colin Jamora²

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15. Understanding the role of Snail in maintaining the undifferentiated state of epithelial cancer cells.

Krithika Badarinath^{1,2}, Deepak Arya¹, Sunny Kataria^{1,2}, Sudhir Krishna¹, Colin Jamora²

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16. Molecular basis of vasculature defects in a mouse model of the fibrotic skin disease scleroderma

Dyuti Saha^{1,3}, Neha Pincha^{1,3}, Tejal Karmalkar¹, Krithika Badarinath^{1,4}, Ankita Hiwale^{2,5}, Praveen K. Vemula², Colin Jamora¹

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⁴ National Centre for Biological Sciences

⁵ The University of Trans-disciplinary Sciences and Technology, Bangalore

17. Elucidating the Function of Embryonic Macrophages in Maintaining Epithelial Homeostasis.

Oindrila Bhattacharjee¹, Uttkarsh Ayyangar¹, Ambika Kurbet¹, Arya Nair¹, Driti Ashok¹, Vairavan Lakshmanan², Dasarathi Palakodeti², Florent Ginhoux³, Srikala Raghavan¹

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³ Singapore Immunology Network (SIgN), Singapore

18. Role of Mechanotransduction in Maintaining Bulge Stem Cell Quiescence.

Ritusree Biswas¹, Avinanda Banerjee¹, Sergio Lembo¹, Zhi Hai Zhao³, Vairavan Lakshmanan², Dasarathi Palakodeti², Colin Jamora¹, Yan Jie³, Valera Vasiokhin⁴, Srikala Raghavan¹

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³ MBI, NUS, Singapore

⁴ Fred Hutchison Cancer Research Institute, Seattle, Washington, USA

19. Uncovering roles of the RNA binding protein PABPC1 in regulating cell-matrix adhesion.

Sonakshi Mishra¹, Oindrila Bhattacharjee¹, Kavana Nadahalli¹, Srikar Krishna², Nivedita Hariharan¹, Dasarathi Palakodeti², Srikala Raghavan¹

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20. Reorganization of nuclear lamina during pluripotent reprogramming.

Kriti KB¹, Neha Vyas, Shravanti Rampalli¹

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21. BIFC based molecular sensor to decode distinct histone and non-histone functions of Eukaryotic Histone Methyltransferases.

Vignesh K Krishnamoorthy¹, Randhir Singh², Shaikh Anaitullah, Akash Gulyani², Shravanti Rampalli¹

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22. Histone methyltransferase EHMT1 modulates adipogenesis through a negative feedback loop via PPAR-gamma activation.

Mahua Chakraborty¹, Jithu Aniruddhan, Vignesh Krishnamoorthy¹, Shravanti Rampalli¹

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3. Centre for Cardiovascular Biology and Disease (CCBD)

23. Live cell sensors for tubulin post translation modifications.

Shubham Kesarwani¹, Purushotham Reddy Pothula², Ranabir Das², Minhaj Sirajuddin¹

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24. Myocyte Geometry Across the Heart Wall at Micrometer Scale.

Drisya Dileep¹, Tabish Syed, Kaleem Siddiqi, Minhaj Sirajuddin¹

¹ CCBD, Institute for Stem Cell Science and Regenerative Medicine

25. Reconstitution of doublet microtubule inner junction.

Mamata Bangera¹, Archita Dungdung, Vinothkumar Kutti Rangunath, Minhajuddin Sirajuddin¹

¹ CCBD, Institute for Stem Cell Science and Regenerative Medicine

26. Next generation sequencing reveals NRAP as a potential candidate for late onset Hypertrophic Cardiomyopathy.

Ankit Sharma¹, Jayaprakash S², Perundurair Dhandapany¹

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² Sri Jayadeva Institute of Cardiology, Bengaluru

27. Loss of function variants in ABI1 cause developmental disorder with congenital heart disease.

Karthikeyan M¹, Andiappan Rathinavel², Dasaradhi Palakodeti³, Raj Ladher⁴, Perundurair Dhandapany¹

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28. Postmortem molecular screening reveals a novel role for KCNA2 in human cardiac hypertrophy with atrial fibrillation.

Chimata P¹, Krishnasamy K¹, Lal S², Matthew M.L.², Perundurair Dhandapany¹

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29. Investigating the role of OCIAD2 in adult mouse hematopoiesis.

Wulligundam Praveen¹, M.K. Shruti¹ and Maneesha S. Inamdar¹

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4. Centre for Stem Cell Research (CSCR)

30. Effect of radial shock wave therapy on longitudinal bone growth

Sowmya Ramesh^{1,2,3}, Farasat Zaman³, Lars Sí_vendahl³, Vrisha Madhuri^{1,2}

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³ Paediatric Endocrinology, Karolinska University Hospital, Stockholm, Sweden

31. A quest for optimizing in vitro hMSCs expansion preconditions: a comparative proteomic analysis emphasizes 3D-specifications with 1% Oxygen

Balasubramanian S¹, Ananthi B², Sanjay Kumar¹

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² Department of Proteomics, Clinbiocare Technology, Chennai, India

32. Cholesterol sequestration from caveolae/lipid rafts enhances liposome mediated nucleic acid delivery to endothelium.

Aishwarya Prasannan¹, Porkizhi Arjunan¹, Santhosh Chandar Maddila¹, Rashmi Praksash Chowath¹, Balaji Balakrishnan², Poonkuzhali Balasubramanian², Srujan Marepally¹

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33. Disease modelling of haematological diseases using induced pluripotent stem cells

Vasanth Thamodaran¹, Sonam Rani¹, Krittika Nandy¹, Alok Srivastava^{1,2}, Shaji R Velayudhan^{1,2}

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34. Genome editing to reactivate fetal γ -globin: An approach to gene therapy for correction of hemoglobinopathies

Saranya Srinivasan¹, Vigneshwaran Venkatesan¹, Abisha Crystal¹, Harish N Kumar¹, Abhirup Bagchi¹, Alok Srivastava^{1,2}, Mohankumar Murugesan¹, Shaji R Velayudhan^{1,2}, Saravanabhavan Thangavel¹

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35. Therapeutic genome editing for beta-hemoglobinopathies.

Vignesh R¹, Mohankumar Murugesan¹

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5. Discovery in Brain Disorders using Stem cells (ADBS)

36. A resource of biomaterials to investigate the cellular basis of mental illness.
Shubhra Acharya and the ADBS consortium

37. A genomics approach to understand the cellular basis of severe mental illness

Ravi Nadella and the ADBS consortium

38. A transdiagnostic approach in understanding the biology of psychiatric disorders: A multiplex family-based cohort study

VS Sreeraj and the ADBS consortium

6. Centre for Brain development and Repair (CBDR)

39. A multilevel analysis of deficient fear learning in a new rat model of FXS.

Pradeep Kumar Mishra¹, Giselle Fernandes, Aiman Kayenaat, Aditi Bhattacharya¹, David Wyllie², Peter Kind², Sumantra Chattarji^{1,3}

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³ National Center for Biological Sciences

40. Delineating cell-type specific, activity-dependent changes in the translational landscape in rat models of Autism.

Priyavada Singha¹, Yogesh Gadgil¹, Urvashi Bhattacharyya, Shashank Tewari¹, Furquan Khizar, Sarfaraz Nawaz, Sunreeta Bhattacharya, Sumantra Chattarji^{1,3}, Owen Dando, Peter Kind², Aditi Bhattacharya¹

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41. Altered expression of fear and active place avoidance in the Nlgn3-/y rat model.

Vijayakumar K^{1,5*}, Shashank Tiwari^{1,5*}, Natasha Anstey^{1,2,4,5*}, Arpita Sharma¹, Aditi Bhattacharya¹, David Wyllie^{1,2,4,5}, Emma Wood^{1,2,4,5*}, Oliver Hardt^{1,3,5*}, Sumantra Chattarji^{1,5*}, Peter Kind^{1,2,4,5*}

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³ McGill University, Montreal, QC, Canada

⁴ Centre for Discovery Brain Sciences, Edinburgh, UK

⁵ Simons Initiative for the Developing Brain

42. Altered network activity of the stem cell derived neurons from Fragile X patients.

Stem Cell Group

CBDR, Institute for Stem Cell Science and Regenerative Medicine

Simons Initiative for the Developing Brain

University of Edinburgh, UK

43. Distinct Regulation of Bioenergetics and Translation by Gp1 mGluRs and NMDARs.

Sudhriti Ghosh Dastidar^{1,2}, Sumita Chakraborty¹, Sumantra Chattarji^{1,3}, Aditi Bhattacharya¹, Ravi Muddashetty¹

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44. miRISC protein GW182 regulates dendrite and synapse development.

Bharti Nawalpur^{1,2}, Sukanya Raman¹, Ravi Muddashetty¹

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45. Insights into the functional role of FMRP through its structural domains.

Sarayu Ramakrishna^{1,3}, Sreenath Ravindran^{1,2}, Vishwaja Jhaveri¹, Samantha Mendonsa¹, Randhir Singh¹, Akash Gulyani¹, Ravi S Muddashetty¹

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7. National Centre for Biological Sciences (NCBS-1)

46. Do TF show high sequence diversity than their target genes across E coli population?

Farhan Ali, Aswin Sai Narain Seshasayee

National Centre for Biological Sciences

47. *IP3R1 regulates Store-operated calcium entry in human neurons*

Pragnya Chakraborty, Renjitha Gopurapilly, Bipan Kumar Deb, Colin W Taylor, Gaiti Hasan
National Centre for Biological Sciences

48. *Sticking with local rice changes a global bacterium*

Pratibha Sanjenbam, Radhika Venkatesan, P V Shivaprasad, Deepa Agashe
National Centre for Biological Sciences

49. *Role of extracellular Sonic hedgehog and its associated partners in neural patterning.*

Ankita Walvekar^{1,2}, Siddhesh Kamat³, Raj Ladher⁴, Neha Vyas¹

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50. *Arabidopsis PARK7 homolog protein AtDJ-1D is a DNA deglycase*

Melvin Prasad¹, Priyanka², Kondalarao², Sunayana², Radhika Ready¹, Swetha Chenna¹,
Radhika Venkatesan¹, Patrick Di Silva², P. V. Shivaprasad¹

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² Indian Institute of Science, Bangalore, India.

51. *Understanding the driver mutations and genome instability in cancer*

Eric Macwan, Faseela E E, Sabarinathan Radhakrishnan
National Centre for Biological Sciences

52. *Lipid transport by RDGB in the Drosophila photoreceptors*

Kanchan Chauhan, Priyesh Mohanty, Avishek Ghosh, Raghu Padinjat, Ranabir Das
National Centre for Biological Sciences

53. *Acto-myosin driven nano clusters of GPI-anchored proteins fine-tune integrin signaling response*

Joseph Mathew Kalappurakkal¹, Sarayu Beri¹, Anupama Ambika Anil Kumar¹, Chandrima Patra¹,
Thomas van Zanten¹, Satyajit Mayor^{1,2}

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8. Tata Institute of Genetics and Society (TIGS)

54. *Effector gene drive systems to control vector-borne diseases.*

Divij Kinger¹, Khushboo Agrawal¹, Baskar Bakthavachalu¹

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55. Effort towards chromosome-level assembly of *An. stephensi* genome

Suvratha J ¹, Parv Sachdeva¹, Shreya Sharma¹, Subhashini Srinivasan^{1,2}

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56. Deciphering mutational landscape of *An. stephensi* in Urban India.

Kiran Paul¹, Muktai Kulwalekar¹, Tejus Shinde¹, Bibha Choudhary¹, Subhashini Srinivasan^{1,2}, Mahul Chakraborty³, Naveen Kumar¹

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³ University of California, Irvine

57. Mutational Analysis of Multidrug Resistance Genes in Clinical Isolates of *Pseudomonas aeruginosa* from South India

Manasi Baswe, Gayathri Vijayakumar, Dr. Bipin Nair, Dr. Priyanka Somanath, Dr. Rajaguru Aradhya

9. Centre for Chemical Biology and Therapeutics (CCBT)

58. Modulating intracellular signaling via targeting phospho-peptide recognition by the tBRCT domain family - i

Center for Chemical Biology and Therapeutics

59. Modulating intracellular signaling via targeting phospho-peptide recognition by the tBRCT domain family - ii

Center for Chemical Biology and Therapeutics

60. Enlarging the “druggable proteome” to modulate intracellular signaling by targeting novel protein-protein interactions.

Center for Chemical Biology and Therapeutics

10. National Centre for Biological Sciences (NCBS-2)

61. A Computationally Designed Fibroblast Growth Factor by consensus design

Varun Mandalaparth^{1,2,3}, Hitesh Rafalia², Tarun Iype², Shailesh Tripathi², Suraj², Raj K. Ladher², Shachi Gosavi^{1,2}

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62. Mechanistic Basis of Sugar-elicited Search Behaviour in *Drosophila*

Manal Shakeel, Axel Brockmann

National Centre for Biological Sciences

63. Chromatin remodeling in host during *Mycobacterium* infection.

Dhruv Sheth, Bharaths, Umer Farooq, Dimple Notani, Varadharajan Sunadaramurthy

National Centre for Biological Sciences

64. Setting a TRAP in the little brain: a Purkinje neuron-specific ribosomal tag in zebrafish

Gnaneshwar Yadav, Dilip Variyam, Vatsala Thirumalai

National Centre for Biological Sciences

65. Effect of Cyclic Mismatch Binding Ligands (CMBLs) over OncomiRs in Cervical Cancer

Rajsee Joshi¹, Sanjukta Mukherjee¹, Ankita Dutta¹, Stabonia Maji¹, Leanna Rose Joy¹, Sudhir Krishna¹, Asako Murata², Kazuhiko Nakatani²

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66. Genetic architecture and sex-specific selection govern modular, male-biased evolution of doublesex

Saurav Baral, Gandhimathi A., Riddhi Deshmukh, Krushnamegh Kunte

National Centre for Biological Sciences

67. Direct iron sensing by a new class of bacterial riboswitches

Siladitya Bandyopadhyay, Susmitnarayan Chaudhury, Dolly Mehta, Arati Ramesh

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68. Differential effect of host plant in herbivore's physiology

Aswathi Menoki^{1,2}, Enakshi Ghosh¹, Radhika Venkatesan¹

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² The University of Trans-Disciplinary Health Sciences and Technology

68-B. Ligand dependent gene regulation by transient ERalpha clustered enhancers

Bharath Saravanan, Dimple Notani

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11. Technologies for the Advancement of Science (TAS)

69. Structure-function studies on membrane proteins.

Parveen Goyal¹, Jay Prakash Kumar¹, Surabhi Kokane¹, Lahari Yermala², Rosmarie Friemann³,
Vinothkumar KR², Ramaswamy S¹

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70. Neu5Ac scavenging and metabolism in pathogenic gram negative bacteria.

Thanuja Gangisetty^{1,2}, Sucharita Bose¹, Jay Prakash Kumar^{1,2}, Lavanyaa M^{1,3}, Sathya
Srinivasachari¹, Ramaswamy S¹

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71. Protein Engineering for applications "changed to" Red Fluorescent protein complex seasonally produced in Sander vitreus

Keerti Yadav^{1,2}, Swagatha Ghosh^{1,3}, Sayan Mondal⁴, Shantanu Aggarwal⁴, Chandrabhas
Narayana⁴, S. Ramaswamy¹

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³ University of Gothenburg

⁴ Jawaharlal Nehru Centre For Advanced Scientific Research

72. Understanding the dynamics of regeneration along the planarian medio-lateral axis.

Vinay K Dubey^{1,3,7}, Souradeep Sarkar^{2,7}, Nivedita Hariharan^{1,4}, Rahul Jose^{1,5}, Nivitha Murali^{1,6},
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⁷ Equal Contribution

73. Ribosome: A hub for translation regulation.

Nivedita Hariharan^{1,4,5}, Jahnvi Kulkarni^{1,4,5}, Sai Sowndarya S¹, Kaushik Iyer¹, Deepa Agashe², Deepa Subramanyam³, Dasaradhi Palakodeti¹

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⁵ Equal Contribution

74. Metabolic control of Translation in early pre-implantation mouse embryos.

Ambika S. Kurbet^{1,2}, Preethi Krishnaraj², Nivedita Hariharan^{1,5}, Srikar Krishna^{1,4}, Vairavan Lakshmanan^{1,4}, Aurelie Jory Lily³, Tina Mukherjee^{2,6}, Dasaradhi Palakodeti^{1,6}

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⁶ Corresponding Authors: dasaradhip@instem.res.in (DP) and tinam@instem.res.in (TM)

75. Developing multi-parametric and quantitative imaging tools for mitochondrial dynamics and cell state mapping

Gaurav Singh¹, Sufi Raja¹, G. Sivaraman¹, Sayan Biswas¹, K. Ponnuvel¹, Sunny Kataria¹, Sarayu R.¹, Colin Jamora³, Ravi Muddashetty², Akash Gulyani¹

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76. Novel biosensor reveals direct visual proof for signaling cross-talk.

Ananya Mukherjee^{1,2}, Randhir Singh¹, Sreeram Udayan¹, Sayan Biswas¹, Geen¹, Puroshotam P³, Ranabir Das³, Balaji Rao⁴, Akash Gulyani¹

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² SASTRA University, Tamil Nadu, India

³ National Centre for Biological Sciences

⁴ North Carolina State University

77. Photosensory neurons in the flatworm brain mediate movement using an 'ancient' opsin photoreceptor.

Anirudh Chakravarthy^{1,2}, Nishan Shettigar^{1,2}, Vairavan Lakshmanan^{1,2}, Dasaradhi Palakodeti¹, Akash Gulyani¹

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² SASTRA University, Tamil Nadu, India

78. Prodrug based biomaterials: A versatile platform for drug delivery to prevent rejection episodes in Vascularised Composite Allograft Transplantation (VCA).

Ashish Dhayani^{1,2}, Sandeep Chandrashekharappa¹, Anand Khristi¹, Ann Maria PS¹, Logia Jolly¹, Gokul Sriman¹, Saraswati Bhushan¹, Praveen Kumar Vemula¹

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² SASTRA University, Tamil Nadu, India

79. Gut metabolite mediated restoration and strengthening of epithelial and endothelial barrier function

Ankita Hiwale^{1,2}, Sandeep Chandrashekharappa¹, Rajbir Singh,³ VenkatakrishnaJala,³ Praveen Kumar Vemula¹

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² The University of Trans-Disciplinary Health Sciences and Technology

³ University of Louisville, Kentucky, USA

80. Polymer-based Dissolvable Microneedles for Transdermal Sustained Drug Delivery

Suman Pahal¹, Ashok Kumar HG¹, Manohar Mahato¹, Kedar Badnikar², MM Nayak², NS Dinesh² and Praveen K. Vemula¹

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12. Facilities

81. Nuclear Magnetic Resonance Facility @ NCBS

P Purushotham Reddy

National Centre for Biological Sciences

82. Central Imaging and Flow Cytometry Facility

Divya A, Ranjana N, Minni K, Reena C, Rukmini K, Cherian A, Anil Kumar HV, Feroz MH Muthafa, Krishnamurthy H

National Centre for Biological Sciences

83. Electron Microscopy Facility

Saloni Sharma, Deepti Negi, Sunil Prabhakar

National Centre for Biological Sciences

84. Next Generation Genomics Facility

Tejali Naik, Awadhesh Pandit

National Centre for Biological Sciences

85. GENERATION, MODIFICATION & CRYO-MANAGEMENT OF YOUR MOUSE MODELS

Jaya Purushotham, Shilpakumari B. A., Reena V., Debajeet Das, Jasper Chrysolite Paul, Saumya Mary Mathew, Latha Chukki, Aurí©lie Jory (Lily)

Mouse Genome Engineering Facility, ACRC, National Centre for Biological Sciences

86. Animal Care and Resource Center [ACRC]

Sangeetha B, Srinivasulu T, Vinodkumar D, Manjunatha AM, Rupa K, Shruthi M, Varalaxmi A, Arpana H, Sathish S, Latha Chukki, Mohan GH, Aurí©lie Jory [Lily].

Animal Care and Resource Center, National Centre for Biological Sciences

87. Fly Facility: A resource for your diverse fly genetics needs

Anitha VA, Basavaraju HM, Gajendra SG, Hemavathy C, Janani SV, Kishore V, Manna Ghalia, Nataraj N, Shwetha H, Srividhya A, Vinitha CM, Yashavantha, Deepti Trivedi

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88. Microfluidics and Microfabrication Facility

Kumar Abhishek, Feroz Musthafa

Centre for Cellular and Molecular Platforms

89. NCBS/InStem X-ray Facility

Nishant Kumar Varshney

Institute for Stem Cell Science and Regenerative Medicine

90. Mass spectrometry Applications in Life Science

Suwanand Deshmukh, Alifia Jafer, Raviswamy G H Math, Tanmayi Patil, Rohit Sasidharan, Padma Ramakrishnan, Chhaya Patole, Dhananjay Shinde

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91. NCBS Museum and Field Stations Facility: Facilities for Biodiversity Research in India

Tarun Karmakar

Museum and Field Stations, National Centre for Biological Sciences

13. NCBS Annual Talks-2019 Winners

92. Sequence selectivity: exploring a sub-cellular computation in the network context

Bhanu Priya S, Upinder S Bhalla
National Centre for Biological Sciences

93. A conserved and buried edge-to-face aromatic interaction in SUMO is vital for the SUMO pathway

Kiran Sankar Chatterjee¹, Vasvi Tripathi¹, Ranabir Das¹
¹ National Centre for Biological Sciences

94. A promiscuous volatile provides a unique behavioral and physiological tool for understanding the diverse multigene family of insect olfactory receptors

Srishti Batra¹, Jacob Corcoran², Dan-Dan Zhang², Christer Löfstedt², Ramanathan Sowdhamini¹, Shannon B. Olsson¹
¹ National Centre for Biological Sciences
² Department of Biology, Lund University

95. The antennal mechanosensory and motor system in insects: a comparative study

Harshada Sant^{1,2}, Sanjay P. Sane¹
¹ National Centre for Biological Sciences
² Manipal Academy of Higher Education

96. Activation of a lncRNA hub by a cancer associated enhancer.

Kaivalya Walavalkar
National Centre for Biological Sciences

97. Interplay of two PTM's on a viral pathogenicity determinant Beta C1 from Geminivirus

Ashwin Nair^{1,2}, Kiran Shankar Chatterjee¹, Vikram¹, Ranabir Das¹, P.V. Shivaprasad¹
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