Day_1 Monday 26th February (2-4pm; 5:45-7pm)

1. Modulating phospho-peptide substrate recognition by tBRCT domain family.
   CCBT, inStem

2. Interrupting intracellular signaling - tBRCT domains and beyond.
   CCBT, inStem

3. Bractoppin Disrupts Intracellular Signaling Mediated by the tBRCT Domain of BRCA1.
   CCBT, inStem

4. Discovery of a Selective Inhibitor Targeting the BRCA1 tBRCT Domain.
   CCBT, inStem

5. Effect of intracellular bacteria on sex ratio of butterfly.
   KruttikaPhalnikar, KrushnameghKunte, Deepa Agashe
   NCBS-TIFR

6. Characterising genetic variation and inbreeding in a small isolated tiger population.
   Anubhab Khan and Uma Ramakrishnan
   NCBS-TIFR

35. Towards Understanding the Dynamics of Development and Differentiation of Inner Ear Hair Cells.
    Nishant Singh, Sharada Gopal, Raj K Ladher
    NCBS-TIFR

44. Structure-function study of Rieske-type Cholesterol desaturase from Drosophila melanogaster and Caenorhabditis elegans.
    Sai Rohit G1,2
    1TAS, inStem
    2Manipal University, Manipal, India

45. Tbx6 is a mesoderm switch in bipotentneuromesoderm progenitors.
    Aritra Misra1,2, Alok Javali1,3, Ramkumar Sambasivan1
    1TAS, inStem
47. **Mesoderm fate commitment along anterior-posterior axis: Role of T-box factors.**

Bhakti Vyas

1. TAS, inStem
2. Manipal University, Manipal, India
3. B S Abdur Rahman Crescent Institute of Science and Technology, Seethakathi Estate, Chennai – 600048

50. **Structural and Functional Studies of Nucleotide Sugar Transporters.**

Dhanabal KanagaVijayan

1. TAS, inStem
2. Manipal University, Manipal, India
3. B S Abdur Rahman Crescent Institute of Science and Technology, Seethakathi Estate, Chennai – 600048

51. **Vertebrate heart and head muscle progenitors are specified by body axis cues.**

Nitya Nandkishore

1. TAS, inStem
2. SASTRA University, Tirumalaisamudram, Thanjavur - 613401
3. Laboratoire de Biologie du Développement de Villefranche-sur-Mer (UMR 7009 — CNRS/Sorbonne Université), Observatoire Océanologique de Villefranche-sur-Mer, Villefranche-sur-Mer – 06230

54. **Electron Cryo-Microscopy Structure of PaaZ and N, N-dimethylformamidase.**

Chetan Arya

1. TAS, inStem
2. NCBS-TIFR
3. Institute of TransDisciplinary Health Science & Technology (TDU), Bengaluru
4. MRC-Laboratory for Molecular Biology, Francis Crick Avenue, Cambridge
5. Department of Chemistry, Indian Institute of Technology Kanpur
6. Department of Biochemistry, Carver College of Medicine, University of Iowa, Iowa
56. Imaging mitochondrial heterogeneity and dynamics using multiplexed, environment-sensitive fluorescent dyes.
Sufi O Raja, Gandhi Sivaraman, Ananya Mukherjee, Sunny Kataria, MamtaUpadhyay, Sarayu R., Colin Jamora, Ravi Muddashetty and Akash Gulyani
TAS, InStem

57. Visualizing functional eye regeneration and patterning of a simple yet processive visual network.
RimpleDalmeida R1,2, Nishan Shettigar1,2, Anirudh Chakravarthy1, Renu Pasricha1, Dasaradhi Palakodeti1, Akash Gulyani
1TAS, inStem, Bangalore.
2SASTRA, Thanjavur

58. Light-sensing neurons in the flatworm brain can mediate movement using a unique opsin photoreceptor.
Anirudh Chakravarthy1,2, Nishan Shettigar1,3, Vairavan Lakshmanan1,3, Dasaradhi Palakodeti1, Akash Gulyani1
1TAS, inStem
2The Institute of Trans-Disciplinary Health Sciences and Technology, Bangalore, India.
3SASTRA University, Thanjavur, India

59. Delineating the widespread eye-brain independent light sensing in flatworms.
Nishan Shettigar1,2, Anirudh Chakravarthy1, Vairavan Lakshmanan1, Miquel Vila Farré2, Jochen Rink3, Dasaradhi Palakodeti1, Akash Gulyani1
1 TAS, inStem
2 SASTRA University, Thanjavur, India
3 Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany

62. RNA secondary structure predictions using covariance model.
Dolly Mehta1,2, Arati Ramesh1
1 NCBS-TIFR
2 SASTRA, Thanjavur, Chennai, India

71. Loss of Asrij/ OCIAD1 in mice promotes hematopoietic stem and progenitor cell expansion due to increased CSN5-mediated p53 degradation.
Saloni Sinha1, Anudeep Venkata1, Takaya Abe1, Hiroshi Kiyonari1, K., VijayRaghavan2 and Maneesha S. Inamdar1
1 Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, India
2 NCBS-TIFR

72. Dose dependent response of Drosophila blood progenitors to parasitoid wasp infection co-relates with differential Stat3 activation.
Diana Rodrigues and Maneesha S. Inamdar
Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru, India
77. Endo-lysosomal containment of intracellular Mycobacterium tuberculosis.
   Kuldeep Sachdeva, Manisha Goel, Varadharajan Sundaramurthy
   NCBS-TIFR

93. Transcriptional regulation of microglia homeostasis.
   Vinaya Sahasrabuddhe, Sonali Gupta and Hiyaa Ghosh
   NCBS-TIFR

95. GenomicQC- High throughput sequencing based Human Pluripotent Stem Cell characterization for Biobanks and Therapeutic applications.
   Ravi M, NCBS; Shruti I, Shubhra A, Priyanaka, Shweta
   ADBS consortium

96. Genomic approaches help in understanding complex neuropsychiatric disorders.
   Hysayn A¹, Ravi M¹, Ravi N²
   ¹NCBS-TIFR
   ²NIMHANS,
   ADBS consortium

97. Search for Trans-diagnostic Neurobiological Endophenotype for Severe Mental Illness - Analytical Challenges.
   JijaSyamala James*, Nirmala M*, Pravesh Parekh, Gaurav Bhalerao, Rashmi Rao,
   Soumyashree Sarkar, Bharath Holla, GanesanVenkatasubramanian, John P John
   ADBS consortium

98. Influence of APOE genotype in NSC stress response.
   Sneha KM¹, Hussain N², Rammakrishnan K³, Biju V³, Odity Mukherjee¹
   ¹InStem
   ²NCBS-TIFR
   ³NIMHANS

   Aswathy Das*,PavithraDayal*, Anza Thomas, Hariprasad Shetty, Pramod Kumar,
   SreenivasuluMallappagiri, M MuthuKumaran, Anand Jose, Birudu Raju, Ravi Kumar Nadella,
   Preethi V Reddy, Pavithra N, Srinivas Balachander, Prabhath G Kondacha, Sanjay T Naik,
   PreetiPansari Agarwal, Biju Viswanath, Bharath Holla.
   ADBS consortium

100. Genetic correlates of lithium sensitivity patients with bipolar disorder.
    Vidhya V¹; Ravi N² Biju V², Odity Mukherjee¹, Raghu Padinjat³
    ¹InStem,
    ²NIMHANS,
101. **The IP$_3$ Receptor and Store Operated Calcium Entry in Human Neural Precursor Cells.**  
Pragnya Chakraborty, Renjitha Gopurappilly, Bipan Kumar Deb and Gaiti Hasan  
NCBS-TIFR

103. **Transient in vivo modulation of PTEN ameliorates functional motor recovery following spinal cord injury in mice**  
Franklin Herbert$^1$, Rajdeep Ojha$^2$, Rishav Seal$^1$, Saranya Ravi$^1$, Saravanan R$^1$, Aneesha Nath$^1$, Shaji RV$^1$, George Tharion$^2$, Sanjay Kumar$^1$  
$^1$Centre for Stem Cell Research (a unit of inStem, Bengaluru)  
$^2$Christian Medical College Campus, Bagayam, Vellore, India

104. **Pre-clinical development of gene modified hemotopoietic stem cells for Wiskott-Aldrich syndrome Gene therapy**  
Abisha Crystal$^1$, Alok Srivastava$^{1,2}$, RV Shaji$^{1,2}$, Saravanabhavan Thangavel$^1$  
$^1$Centre for Stem Cell Research (a unit of inStem, Bengaluru), Christian Medical College Campus, Bagayam, Vellore, India.  
$^2$Christian Medical College, Vellore, India.

105. **Endocytosis switch from caveolae to clathrin enhances lipid mediated nucleic acid transfections in endothelial cells**  
Santhosh Chandar Maddila$^1$, Brijesh Lohchania$^1$, Balaji Balakrishnan$^2$, Poonkuzhali Balasubramanian$^{1,2}$, Srujan Marepally$^1$  
$^1$Centre for Stem Cell Research (a unit of inStem, Bengaluru), Christian Medical College Campus, Bagayam, Vellore, India.  
$^2$Christian Medical College, Vellore, India.

106. **Regeneration of articular cartilage using Carrageenan gelatin scaffold**  
Karthikeyan Rajagopal$^1$, Noel Walter$^2$, Dhirendra Katti$^3$, Vrisha Madhuri$^{1,2}$  
$^1$Centre for Stem Cell Research (a unit of inStem, Bengaluru), Christian Medical College Campus, Bagayam, Vellore, India  
$^2$Christian Medical College, Vellore, India  
$^3$Indian Institute of Technology, Kanpur

18. **The NCBS Animal Care and Resource Center.**  
Animal Care and Resource Center NCBS-TIFR

40. **Fly Facility: A resource for your diverse fly genetics needs.**  
Fly Facility@NCB
41. Screening Facility@NCBS.
Shahab Uddin, Chandan Mitra
Screening Facility@NCBS

42. NCBS-InStem-X-ray Facility.
Vinod Nayak
X-ray Facility@NCBS

Day_2 Tuesday 27\textsuperscript{th} February (2:15-5pm)

7. **Cellular and molecular heterogeneity of fibroblast responses in mouse model of dermal fibrosis.**
Sunny Kataria\textsuperscript{1,2,3}, Rania Zaarour\textsuperscript{1}, Krithika Badarinath\textsuperscript{1,2,3}, Isha Rana\textsuperscript{1,2}, Ananya Mukherjee\textsuperscript{2}, Rekha Samuel\textsuperscript{4}, Akash Gulyani\textsuperscript{2}, Colin Jamora\textsuperscript{1,2}
\textsuperscript{1}IFOM-inStem joint research laboratory
\textsuperscript{2}inStem
\textsuperscript{3}NCBS-TIFR
\textsuperscript{4}Centre for Stem Cell Research, CMC Vellore

8. **Cellular Sensing of Injury: The Convergence of Mechanical and Epigenetic Cues.**
Tanay Bhatt\textsuperscript{1,2,3,4}, Alhad A. Ketkar\textsuperscript{2,3}, Rakesh Dey\textsuperscript{1,2,3}, Vairavan Lakshmanan\textsuperscript{3}, Ajai J. Pulianmackal\textsuperscript{1,2}, Ashim P. Deb\textsuperscript{1,2}, Dasaradhi Palakodeti\textsuperscript{3}, Shravanti Rampalli\textsuperscript{2,3}, Colin Jamora\textsuperscript{1,2,3}
\textsuperscript{1}IFOM-inStem joint research laboratory
\textsuperscript{2}CITH, inStem
\textsuperscript{3}inStem
\textsuperscript{4}NCBS-TIFR

9. **Understanding the role of Snail in maintaining the undifferentiated state of epithelial cells.**
Krithika Badarinath\textsuperscript{1,2,3}, Deepak Arya\textsuperscript{1}, Sunny Kataria\textsuperscript{1,2,3}, Sudhir Krishna\textsuperscript{1}, Colin Jamora\textsuperscript{2,3}
\textsuperscript{1}NCBS-TIFR
\textsuperscript{2}IFOM-inStem joint research laboratory
\textsuperscript{3}CITH, inStem

10. **PAI-1 mediates Mast Cell-Fibroblast Interactions in a Mouse Model of Fibrosis.**
Neha Pincha\textsuperscript{1,2,3}, Edries. Y. Hajam\textsuperscript{1,3}, Krithika Badarinath\textsuperscript{1,3}, Surya P. R. Batta\textsuperscript{1,3}, Colin Jamora\textsuperscript{1,3}
\textsuperscript{1}IFOM-inStem Joint Research Laboratory
\textsuperscript{2}Manipal Institute of Technology
\textsuperscript{3}CITH, inStem
11. **Modeling Kleefstra Syndrome in Human Pluripotent Cells.**
   Radhika Rao, Shravanti Rampalli
   CITH, inStem

12. **Division of labor between EHMTs regulate DNA-PKcs recruitment to DSBs.**
   Febina Ravindran, Abhishek Mohanty, Vignesh Krishnamurthy and Shravanti Rampalli
   CITH, inStem

13. **Epigenetic heterogeneity in the dermis influences Skin homeostasis and repair.**
   Alhad Ketkar¹, Ashish Dhayani², Sunny Kataria¹, Praveen Vemula², Colin Jamora¹, Shravanti Rampalli¹
   ¹CITH, inStem
   ²inStem

14. **Role of Vinculin in Regulating Bulge Stem Cell Quiescence.**
   Ritusree Biswas¹, Avinanda Banerjee¹, Sergio Lembo¹, Vairavan Lakshmanan², Dasaradhi Palakodeti², Colin Jamora¹, Srikala Raghavan¹
   ¹CITH, inStem
   ²inStem

15. **Understanding crosstalk between Epithelia and Immune system.**
   Oindrila Bhattacharjee¹, Ambika S. Kurbet¹, Driti Ashok³, Uttkarsh Ayyangar¹, Florent Ginhoux², Srikala Raghavan¹
   ¹CITH, inStem
   ²A*STAR, Singapore

16. **Role of Vinculin in Nuclear Mechanotransduction.**
   Avinanda Banerjee¹, Ritusree Biswas¹, Vairavan Lakshmanan¹, Anupama Ambika Anilkumar², Dasaradhi Palakodeti³, Colin Jamora¹, Srikala Raghavan¹.
   ¹CITH, inStem
   ²NCBS-TIFR
   ³inStem

17. **Chromosomal inversion as a strategy to compensate the loss of replicative structure in E.coli**
   Reshma T V, Soumya Nayak, Aswin Sai Narain Seshasayee
   NCBS-TIFR

21. **Polyamines as central regulators of desiccation tolerance.**
   Akshay Das Adhikari¹, Teymur Kuzhaila², and Sunil Laxman¹
   ¹RCF, inStem
   ²MPI-CBG, Dresden

23. **Developmental regulation of cell cycle arrest in the Drosophila tracheal system and its implications for the lung.**
   Amrutha K, Rose Sebastian, Ravi Hindupur, Arjun Guha
   RCF, inStem

24. **Dopaminergic regulation of Drosophila Hematopoiesis.**
   Ankita Kapoor, Ajay Tomar, Manish K Joshi, Tina Mukherjee
   RCF, inStem
27. **Role for the Fragile X Mental Retardation Protein in the management of oxidative and genotoxic stress in the lung.**
Deblina Sain-Basu¹, Rital Bhavsar¹, Aditya Deshpande¹, Saimanoz Lingamallu¹, Harlin Kaur¹, Aditi Bhattacharya², Sumantra Chattarji², Rajesh Thimulappa Ravi Muddashetty³, Arjun Guha¹.
¹RCF, inStem
²CNS, CBDR inStem
³JSS Medical College, Mysore

28. **Blood cells regulating global metabolic homeostasis.**
Anusree Mahanta¹*, Preethi R¹*, Manish Singh¹, Sukanya Madhwal¹,², Shaarvari Bhat¹, Tina Mukherjee¹
*First authors
¹RCF, inStem.
²Manipal University, Manipal, India

29. **The RhoA effector mDiaphanous1 is sequestered by Prohibitin2 in myotubes to promote MyoD function during differentiation.**
Amena Saleh¹,²,³, Gunasekaran Subramaniam¹, Swasti Raychaudhuri¹ and Jyotsna Dhawan¹,²
¹Center for Cellular and Molecular Biology, Hyderabad
²RCF, inStem
³Manipal University, Manipal

31. **Investigating Notch1 and methionine mediated T-regulatory cell survival.**
Shree Padma* Anupam Datta*. M, Uma Vishwanathan, Adhish Walvekar, Sunil Laxman, Apurva Sarin
*First authors
RCF, inStem

34. **Gluconeogenesis enables self-organization of distinct metabolic states and cellular division of labor within a simple microbial community.**
Sriram Varahan¹, Vaibhav Sinha², Adhish Walvekar¹, Sandeep Krishna², Sunil Laxman¹
¹RCF, inStem
²NCBS-TIFR

43. **The Poly (A) Binding protein Nuclear recruits CCR4-NOT to control mRNA decay and cellular differentiation.**
Namita Mukundan, Dhiru Bansal, Vairavan Lakshmanan, Dasaradhi Palakodeti
TAS, inStem

48. **All’s well that ends well: Polyadenylation Centered gene regulation in planarian stem cells and regeneration.**
Vairavan Lakshmanan¹, Jahnavi Kulkarni¹, Srikar Krishna¹, Aswin Seshasayee², Dasaradhi Palakodeti¹
¹TAS, inStem
²NCBS-TIFR
52. **Deciphering ribosomal heterogeneity essential for translational regulation during cell fate transitions.**
Jahnavi Kulkarni, Nivedita Hariharan, Vairavan Lakshmanan, Srikar Krishna G, Dasaradhi Palakodeti
TAS, inStem

53. **Non-viral genome engineering methods to develop transgenic lines in planarian, Schmidtea mediterranea.**
Mohamed Mohamed Haroon\textsuperscript{1,2}, Nishtha Nayyar\textsuperscript{1}, Manohar Mahato\textsuperscript{1}, Harshitha Nagesh\textsuperscript{1}, Kshama Kumar\textsuperscript{1} Dasaradhi Palakodeti\textsuperscript{1} Praveen Kumar Vemula\textsuperscript{1}
\textsuperscript{1}TAS, inStem
\textsuperscript{2}Trans-disciplinary University, Yelahanka, India

55. **Structure of Planarian Ribosome.**
Lahari Yeramala\textsuperscript{1}, Tripti Kharbanda\textsuperscript{1}, P.Dasaradhi\textsuperscript{2}, K.R.Vinothkumar\textsuperscript{1}
\textsuperscript{1}NCBS-TIFR
\textsuperscript{2}TAS, inStem

65. **Live cell sensors of tubulin post-translation modifications.**
Shubham Kesarwani and Minhaj Sirajuddin
CCBD, inStem

66. **Novel genes for congenital heart disease associated with RASopathies.**
Karthikeyan Meenakshisundaram\textsuperscript{1}, Andiappan Rathinvel\textsuperscript{1}, Dasaradhi Palakodeti\textsuperscript{1}, Raj Ladher\textsuperscript{3}, Perundurai Dhandapany\textsuperscript{1}
\textsuperscript{1}CCBD, inStem
\textsuperscript{2}Dept of Cardiothoracic Surgery, Madurai Medical College, Madurai, Tamilnadu,
\textsuperscript{3}NCBS-TIFR
\textsuperscript{4}inStem

67. **Towards a three dimensional architecture of heart muscle fibers.**
Drisya Dillep\textsuperscript{1}, Tabish Syed\textsuperscript{2}, Kaleem Siddiqi\textsuperscript{2}, and Minhaj Sirajuddin\textsuperscript{1}
\textsuperscript{1}CCBD, inStem
\textsuperscript{2}McGill University, Montreal, Canada

68. **Exome analysis for syndromic cardiomyopathy.**
Ankit Sharma, Perundurai Dhandapany
CCBD, inStem

69. **Reconstitution of thick filament motility using DNA scaffolds.**
Prakash Lama, Lakshmi Krupa Srinivasan and Minhaj Sirajuddin
CCBD, inStem
70. Role of miRNA-19b-3p in hypertrophic cardiomyopathy.
   Anupam Mittal, Perundurai Dhandapani
   CCBD, inStem

73. Systems biology approach to study cardiomyopathy genes.
   Pankaj Chauhan¹, Farah Haque¹, Khader Shameer², Dhandapani
   Perundurai³, R. Sowdhamini¹
   ¹ NCBS-TIFR
   ² Northwell Health, Long Island, New York, USA
   ³ CCBD, inStem

74. Activity driven lipid ordering on the plasma membrane of living cells.
   Suvrajit Saha, Chandrima Patra, Satyajit Mayor
   NCBS-TIFR

75. The role of non-muscle Myosins in organizing proteins at the plasma membrane.
   Parijat Sil, Thomas van Zanten, Satyajit Mayor
   NCBS-TIFR

76. Two contractile pools of Myosin-II exert load on adhesion complexes and distinctively tune E-cadherin levels to facilitate cell contact remodeling.
   Girish R. Kale¹*, Xingbo Yang², Jean-Marc Phillippe¹, Madhav Mani², Pierre-Francois Lenne¹, Thomas Lecuit¹, ³
   ¹ Marseille UniversitÃ©, CNRS, IBDM - UMR7288, 13009 Marseille, France. * Currently working at NCBS-TIFR
   ² Northwestern University, 2145 Sheridan Road, Evanston, IL 60208, USA.
   ³ CollÃ¨ge de France, 11 Place Marcelin Berthelot, 75005 Paris, France.

64. NMR Facility@NCBS
   Purushotham Reddy
   NMR Facility, NCBS-TIFR

78. Central Imaging and Flow Cytometry Facility.
   Divya A., Dr. H. Krishnamurthy, Feroz MH Musthafa., N. Ranjana, Anil Kumar, Amit Cheriana
   Central Imaging and Flow Cytometry Facility, NCBS-TIFR

   Sangeeta Nath
   Single Molecule Nanoscope, NCBS-TIFR

102. Microfluidics and Microfabrication facility.
   Feroz Musthafa
   Microfluidics and Microfabrication facility, NCBS-TIFR
Day3 _ Wednesday 28th February (2:15-5pm)

19. The mRNP granule proteins Fmrp and Dcp1a differentially regulate muscle cell quiescence.
Roy N1, Pillai SM1, Socha FP1, Ganesh S1, Aloysius A, Sundar S4, Hughes SM5, Zammit PS6, Dhawan J1,2
1RCF, inStem
2Centre for Cellular and Molecular Biology, Hyderabad, 500 007 India

22. Notch1 signalling tunes metabolic programmes in Tregs.
Nimi Marcel, Chaitrali Saha, Nandini P. Basak, Apurva Sarin
RCF, inStem

Neetu Saini1,2, Sukanya Raman1, Nimi Marcel1, Sharmila Srihari1, Apurva Sarin1
1RCF, inStem.
2Manipal University, Manipal

25. Understanding ubiquitin-mediated metabolic switches.
Vineeth V1,2, Ashish Walvekar1, Ganesh KB1, Ritu Gupta1, Sunil Laxman1
1RCF, inStem
2Manipal University, Manipal, India

29. The RhoA effector mDiaphanous1 is sequestered by Prohibitin2 in myotubes to promote MyoD function during differentiation.
Amena Saleh1,2,3, Gunasekaran Subramaniam1, Swasti Raychaudhuri1, Jyotsna Dhawan1,2
1Center for Cellular and Molecular Biology, Hyderabad
2RCF, inStem
3Manipal University, Manipal

Zeenat Rashida, Sunil Laxman
RCF, inStem

32. Characterization of the role of senescent cells in stimulation of airway progenitor proliferation.
Imtiyaz Gulami, Aditya Deshpande, Arjun Guha
RCF, inStem

33. Olfaction mediated immune competency in Drosophila.
Sukanya Madhwal1,2, Manish K Joshi1, Ankita Kapoor1, Pirzada Mujeeb ur Rehman1, Tina Mukherjee1.
1RCF, inStem.
2Manipal University, Manipal
36. Cross-feeding metabolisms: yea or nay?
    Akshit Goyal and Sandeep Krishna
    Simons Centre for the Study of Living Machines, NCBS-TIFR

37. Immune Discrimination at T-Cell Receptor Clusters.
    Kabir B Husain¹, Marcus J Taylor²,³,⁴, Satyajit Mayor⁴, Madan Rao¹
    ¹Simons Centre for the Study of Living Machines, NCBS, Bangalore
    ²MPI for Infection Biology
    ³UCSF
    ⁴NCBS-TIFR

38. Adaptations of S. cerevisiae to freezing and thawing.
    Charuansini, Shashi Thutupalli.
    NCBS-TIFR

39. Ligand induced segregation of chromatin domains.
    Bharath Sarvanan, Ranveer Jayani, Dimple Notani
    NCBS-TIFR

46. Scavenging extracellular DNA and histones using charged nanofibre based scaffold from stored blood to prevent TRALI.
    Manohar Mahato, Preethem Srinath, Ankita Hiwale, Ravipati Priusha, Anjani Gopal, Praveen Kumar Vemula
    ¹TAS, inStem
    ²B S Abdur Rahman Crescent Institute of Science and Technology, Seethakathi Estate, Chennai – 600048
    ³NCBS-TIFR

49. Investigating the structure-activity relationship of amphiphilic nucleophiles to hydrolyze major classes of pesticides in micellar medium.
    Subhashini Pandey¹,², Sandeep Chandrashekharappa¹, Tanu Jain¹,², Ketan Thorat¹,³, Harini Raghavan¹, Praveen Kumar Vemula¹
    ¹TAS, InStem
    ²Trans-disciplinary University, Yelahanka, India

60. Regulation of error-prone translesion synthesis repair in bacteria.
    Asha Jospeh, Ismath Sadhir, Prachi Shinde, Anjana Badrinarayanan
    NCBS-TIFR

61. Road to destruction: Structural studies of a transporter in the Ubiquitin-proteasome pathway.
    Batul Habibullah, Ranabir Das
    NCBS-TIFR
63. A domestication-associated miRNA targets laccases to facilitate lignin biosynthesis and yield-related traits in rice.
Chenna Swetha, Debjani Basu, Varsha Tirumalai, Ashwin Nair, Kannan Pachamuthu and P. V. Shivaprasad
NCBS-TIFR

80. Altered network burst firing in FXS patient-derived cortical neurons.
Shreya Das Sharma & Rakhi Pal
CNS Stem Cell Biology Team, CBDR, inStem

81. Role of astroglia in the pathogenesis of FXS.
Bharath Kumar Reddy & Rakhi Pal
CNS Stem Cell Biology Team, CBDR, inStem

82. A multilevel analysis of deficient fear learning in a new rat model of FXS.
Pradeep K Mishra, Giselle Fernandes
CNS, CBDR Electrophysiology, Behaviour and Biochemistry Teams

83. Cell type specific biochemical profiling of ASD rat models reveals convergence and divergence of disease pathophysiology.
Arpita Sharma, Yogesh Gadgil, Urvashi Bhattacharyya
CNS, CBDR Biochemistry Team

84. Contrasting effects of NLGN3 deficiency on contextual versus cued fear learning.
Vijay Kumar, Shashank Tiwari
CNS, CBDR Behaviour and Electrophysiology Teams

85. Physiological and Behavioural Characterization of a novel rat model of CDKL5 deficiency.
Teresa Spano, Rohit Dey
CNS, CBDR Behaviour and Electrophysiology Teams

86. Divergent phenotypes of rat models of Neurexin1+/− and Neuroligin3−/−.
Oliver Hardt
CBDR Biochemistry and Modelling Teams.

87. NMDAR and mGluR Create Separate Bioenergetic Landscape by Distinct Temporal Regulation of Translation.
Sudhriti Ghosh Dastidar1,2, Aditi Bhattacharya1, Ravi Muddashetty1
1CBDR, InStem
2Manipal University, Manipal, India
88. **Characterization of functional domains of FMRP (Fragile X Mental Retardation Protein) using mutations identified in patients.**

Sarayu R\(^1\), Sreenath R\(^1\), Samantha Mendonsa\(^1\), Sindhu Lakshmanan\(^1\), Randhir Singh\(^1\), Ananya Mukherjee\(^1\), Akash Gulyani\(^1\), Ravi Muddashetty\(^1\)

\(^1\)CBDR, InStem
\(^2\)Manipal University, Manipal, India
\(^3\)Trans-Disciplinary University, Bengaluru, India

89. **Grow With GW182: GW182 associated miRISC in neuronal development.**

Bharti Nawalpuri\(^1\), Ravi Muddashetty\(^1\)

\(^1\)CBDR, InStem
\(^2\)SASTRA university, Thanjavur, India

90. **FMRP interacts with snoRNA in the nucleus and regulates ribosomal RNA methylation.**

Michelle Ninochka D’Souza\(^1\), Naveen Kumar Gowda\(^1\), Vishal Tiwari\(^1\), Rosana Babu\(^1\), Praveen Anand\(^1\), Bhuvaneish Selvaraja\(^3\), Rakhi Pal\(^1\), Sumantra Chattarji\(^1\), SiddharthanChandran\(^1,3\), DasaradhPalakodeti\(^1\), Ravi S Muddashetty\(^1\)

\(^1\)InStem
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91. **AutSim: Modeling activity-driven synaptic cell biology in health and disease.**

Nisha Ann Viswan, G.V. Harsha Rani, Aiman Kayenaat, Aditi Bhattacharya, Melanie Stefan, Upinder S. Bhalla

NCBS-TIFR

92. **Mass spectrometric quantification of amine titers in single honey bee brains and brain parts.**

Divya Ramesh, Axel Brockmann

NCBS-TIFR

93. **Transcriptional regulation of microglia homeostasis.**

Vinaya Sahasrabuddhe, Sonali Gupta and Hiyaa Ghosh

NCBS-TIFR

94. **Mass spectrometry Applications in Life sciences.**

Raviswamy G H Math, Padma Ramakrishnan and Dhananjay Shinde, M V Kamala Lakshmi

Mass spectrometry facility, NCBS-TIFR

109. **An optimized approach for the generation of induced pluripotent stem cells from peripheral blood derived erythroid progenitors**

Kannan V Manian\(^1\), Alok Srivastava\(^1,2\), Shaji R Velayudhan\(^1,2\)

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110. Lentiviral vector-based gene therapy for major haemoglobin disorders
Abhirup Bagchi\textsuperscript{1}, Shaji R Velayudhan\textsuperscript{1,2}, David Archer\textsuperscript{3}, Jordan Shields\textsuperscript{3}, David McCarty\textsuperscript{3}, Harold Trent Spencer\textsuperscript{3}, Alok Srivastava\textsuperscript{1,2}
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\textsuperscript{3} Aflac Cancer and Blood Disorders Centre, Department of Pediatrics, Emory University School of Medicine, Atlanta, Georgia, USA

111. Genome editing to reactivate fetal $\gamma$-globin: An approach to gene therapy for correction of $\beta$-hemoglobinopathies
Vigneshwaran V, Harish Kumar N, Saranya S, Alok Srivastava\textsuperscript{1,2}, RV Shaji\textsuperscript{1,2}, Saravanabhan Thangavel\textsuperscript{1}
\textsuperscript{1} Centre for Stem Cell Research (a unit of inStem, Bengaluru), Christian Medical College Campus, Bagayam, Vellore, India
\textsuperscript{2} Trans-disciplinary University, Yelahanka, India

107. Services and Technologies to enhance laboratory mouse quality
Jaya Purushotham, ShilpaKumari B A, Reena Vemula, Kamlesh KV, Latha Chukki, Aurelie Jory [Lily]
Mouse Genome Engineering Facility, NCBS-TIFR

108. Electron Microscopy: Eye to ultrastructure analysis in molecular and cellular world
Saloni Sharma, Deepi Negi, Nagendra Pratap Singh
Electron Microscopy Facility, NCBS-TIFR

112. Sanger Sequencing and Next Generation Genomics Facility
Tejali Naik, Greeshma Venugopal, Riaz Basha Shaik, Awadhesh Pandit
Sanger Sequencing and Next Generation Genomics Facility, NCBS-TIFR