

Colloquium

Small Molecule Modulator of Ribonucleoproteins Telomerase and CRISPR/Cas9: Towards their Therapeutic Interventions

Basudeb Maji

Harvard Medical School, MA

SpCas9 is a programmable RNA-guided DNA endonuclease from *S. pyogenes* that has allowed the facile introduction of genomic alterations. Cas9-based technologies have transformed genome engineering and the interrogation of genomic functions, but methods to control such technologies across numerous dimensions—including dose, time, specificity, orthogonality remained the limiting factors in its therapeutic intervention. We have developed small-molecule controlled CRISPR/Cas9 system that can deliver these requirement on demand. We have demonstrated how the blending of chemical abilities with bioengineering methods in CRISPR/Cas9 system can empower us in controlling complex biological events.

Thursday, Jun 21st 2018

04:00 PM (Tea/Coffee at 03:30 PM)

Auditorium, TIFR-H