



Society for Image Guided
Neurointerventions

4th SIGN CONFERENCE

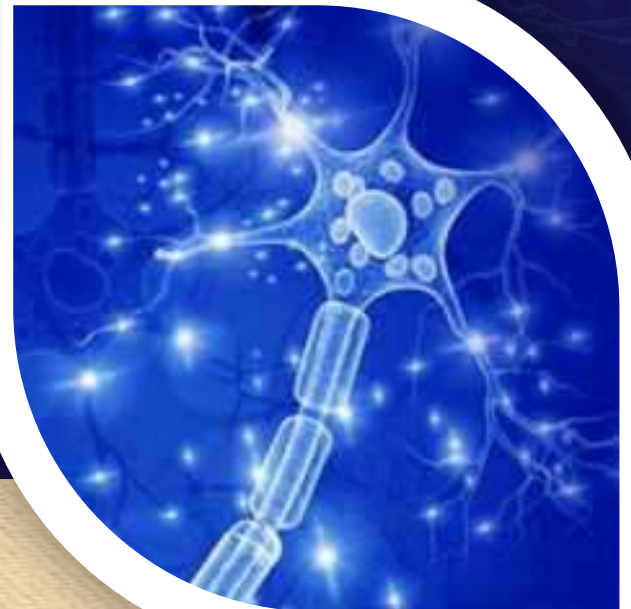
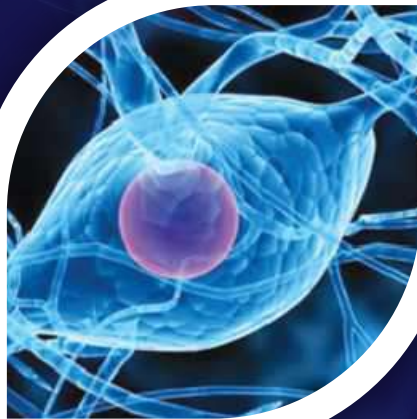
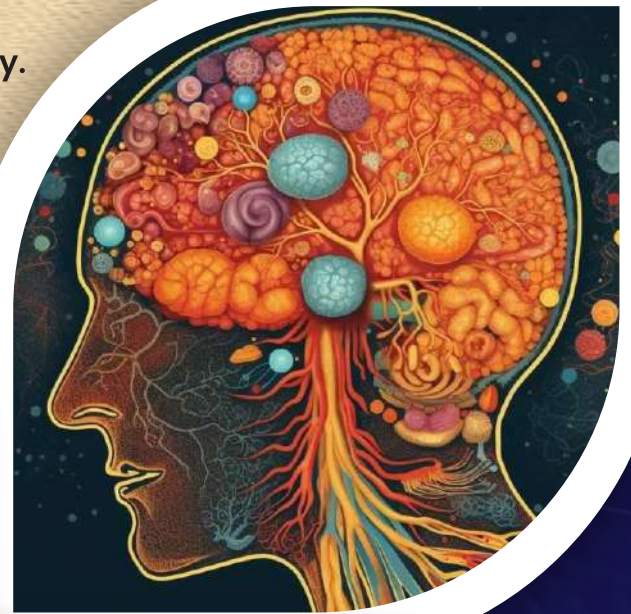
5th to 7th January 2024

Venue:

5th & 6th Jan 2024, Hotel Sitara, Ramoji Film City.

7th Jan 2024, KIMS Hospital, Secunderabad.

Scientific
Programme



Event in Collaboration with



KNOW YOUR SPEAKER

KEYNOTE



Dheeraj Gandhi

University of Maryland, Baltimore,
USA



Manas Panigrahi

KIMS Hospital,
Hyderabad, India



Michael Lim

Stanford University,
USA

Artificial Intelligence



Dheeraj Dhane

Indian Institute of Technology, Hyderabad, India

Topic

Development of deep learning algorithm to assess cerebral collaterals



Frank Hertel

Centre Hospitalier de Luxembourg, Luxembourg, Europe

Topic

Biomedical image analysis – towards clinically applicable models. a critical view on AI-based analysis of public databases and their potential use for clinical purposes



Brig (Dr) S P Gorthi

Vidhyapeeth Medical College, Pune, India

Topic

Prognostication of ischemic stroke outcome using machine learning techniques



MOLECULAR IMAGING



Jeff W. M. Bulte

Johns Hopkins University, Baltimore, USA

Topic

In vivo MPI cytometry



Jiadi Xu

Johns Hopkins University, Baltimore, USA

Topic

Energy metabolites in tissue detected by CEST MRI



Neeraj Choudhary

University of Michigan, Ann Arbor, USA

Topic

MRI biomarker development for ICH: poised for human translation

STEM CELLS



Shreyas Kuddanaya

Johns Hopkins University, Baltimore, USA

Topic

Multiparametric and multimodal imaging of glial and neural progenitor cell therapy for ALS



Pallab Bhattacharya

NIPER, Ahmedabad, India

Topic

Endovascular stem cell therapy following stroke promotes mitochondrial biogenesis, transfer and resilience



Syed Shadab Raza

ERA University, Lucknow, India

Topic

Unveiling the evolving interplay of SIRT3 and NLRP3 inflammasome in shaping stem cell fate during ischemic stroke



BIOMATERIALS



Luiza Stanaszek

Mossakowski Medical Research Institute, Polish Academy of Sciences, Warsaw, Poland

Topic

Hydrogel-based image-guided delivery to the central nervous system



Jung Soo Suk

University of Maryland, Baltimore, USA

Topic

Focused ultrasound- and polymeric nanoparticle-mediated nucleic acid delivery to the brain



Yoshinori Kato

Hoshi University, Tokyo, Japan

Topic

Development of bispecific antibody conjugates and beyond

ENDOVASCULAR DRUG DELIVERY



Michal Zawadzki

Central Hospital of Ministry of Interior, Warsaw, Poland

Topic

Clinical applications of the real-time MRI guidance for endovascular procedures - past, present and future



Paul Bhogal

Royal London Hospital, UK

Topic

Combination therapy for GBM - the role of cannabinoids and IA bevacizumab



Dileep Yavagal

University of Miami, USA

Topic

Endovascular cell therapy for ischemic stroke: the burning hope for clinical translation



NEUROSURGERY POWER SESSION



Aditya Gupta

Artemis Hospital, Gurgaon, India

Topic

Stereotactic radiosurgery: need for appropriate image guidance



G Ananta Ram

KIMS Hospital, Hyderabad, India

Topic

Insights from combined structural and functional brain mapping in glioma patients using structural connectivity atlas (SCA) and independent component analysis (ICA) resting fMRI



Nirav Patel

Indian Institute of Technology Madras, Chennai, India

Topic

Preclinical evaluation of a skull-mounted robotic system for MRI/CT guided burr hole neurosurgery



Dhanunjaya Rao Ginjupally

University of Kentucky, Lexington, USA

Topic

Asleep deep brain stimulation (aDBS) and image-guided programming for parkinson's disease and movement disorders using direct visualization, fibre tracking and directional leads

LUNCHEON SEMINAR



Cesar Molinos

Bruker, Germany

Topic

PET/MR solutions in preclinical neuro imaging
(Sponsored by Bruker BioSpin)



STROKE



Sean Savitz

University of Texas, Houston, USA

Topic

Imaging recovery in ischemic vs hemorrhagic stroke





Tim Magnus

University of Hamburg-Eppendorff, USA

Topic

Taking anti-IL-17 in stroke to the clinic



Subhash Kaul

KIMS Hospital, Hyderabad, India

Topic

Stroke genetics and its potential clinical applications



Shen Li

Capital Medical University, Beijing, China

Topic

Hyperacute multi-omics predicts stroke outcome

BRAIN CANCER



Michael Lim

Stanford University, USA

Topic

Next generation of checkpoint inhibitors for GBM (**Keynote Lecture**)



Amit Sharma

University of Bonn, Germany

Topic

Expanding the horizons of wnt signaling and adoptive cell immunotherapy for glioblastoma



Miroslaw Janowski

University of Maryland, Baltimore, USA

Topic

Multi-scale image guidance for brain cancer treatment



Komal Prasad Chandrachari

Mazumdar Shaw Medical Center, Bengaluru, India

Topic

Design thinking: accelerating innovation in neurosurgery for GBM



ENDOVASCULAR BBB OPENING



Prakash Ambady

Providence Spine and Brain Institute, Portland, Oregon, USA

Topic

Safety and efficacy of osmotic blood-brain barrier disruption: challenges and opportunities



Kazim Narsinh

University of California San Francisco, USA

Topic

Disrupting the blood-brain barrier to enhance therapeutic delivery to the CNS



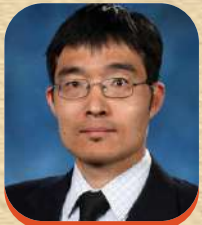
Guanda Qiao

University of Maryland, Baltimore, USA

Topic

Novel combination of osmotic blood brain barrier openers

NEURODEGENERATIVE DISORDERS



Yajie Liang

University of Maryland, Baltimore, USA

Topic

NanoSynFAST as a chemigenetic indicator of alpha-synuclein aggregation dynamics in live cells



Urszula Kozłowska

Institute of Bioorganic Chemistry, Polish Academy of Sciences, Poznan, Poland

Topic

Psychedelics for neurodegenerative diseases



Prakash Babu

Department of Biotechnology & Bioinformatics, University of Hyderabad, India

Topic

Molecular mechanisms underlying neurological diseases



TBI AND STROKE FROM SMALL TO LARGE ANIMALS



Sujith Sajja

WRAIR, Silver Spring, USA

Topic

Pre-clinical modeling of blast injuries with translatable outcome measures



Teresa Gasull Dalmau

Germans Trias i Pujol Research Institute, Barcelona, Spain

Topic

New advances in modelling stroke in swine



Frank West

University of Georgia, Athens, USA

Topic

MRI evaluation of regenerative stem cell therapies in stroke and TBI pig models



Iype Cherian

Krishna Vishwa Vidyapeeth, Karad, Maharashtra, India

Topic

Cisternostomy to our journey to uncover brain cooling and the implications

NUCLEIC ACIDS



Renata Grzela

University of Warsaw, Poland

Topic

Toward mRNA therapeutics: the emerging role of 5' cap mRNA modifications and look at native and synthetically introduced RNA modifications



Abdallah Salemdawod

University of Maryland, Baltimore, USA

Topic

CRISPR-based base editing of tuberous sclerosis complex 2 gene in human mesenchymal stem cells





Amitava Ray

Apollo Health City, Hyderabad, India

Topic

Liquid biopsy for brain tumors

FOCUSED ULTRASOUND



Dheeraj Gandhi

University of Maryland, Baltimore, USA

Topic

MR guided FUS: next frontier in image guided (non-surgical) neurosurgery
(Keynote Lecture)



David Gulisashvili

University of Maryland, Baltimore, USA

Topic

Image-guided CD47 blockade in conjunction with the focused ultrasound-based blood-brain barrier opening to treat diffuse intrinsic pontine glioma in a mouse model



Linda Chang

University of Maryland, Baltimore, USA

Topic

Focused ultrasound to enhanced drug delivery in humanized NOG-IL34 mice for eradication of HIV

NEUROMODULATION



Tommaso Di Ianni

University of California San Francisco, USA

Topic

High-throughput ultrasound neuromodulation in freely behaving rats



Dirk De Ridder

University of Otago, Dunedin, New Zealand

Topic

EEG, PET and fMRI guided brain implants for tinnitus and pain



Jarek Maciaczyk

University of Bonn, Germany

Topic

Future of neuromodulation in chronic pain treatment



ORGANIZING COMMITTEE

Society for Image Guided Neurointerventions (SIGN) Members



Miroslaw Janowski
University of Maryland, Baltimore,
USA



Piotr Walczak
University of Maryland, Baltimore,
USA



Johannes Boltze
University of Warwick,
UK

Other Committee Members



Jarek Maciaczyk
University of Bonn,
Germany



Sujith Sajja
Walter Reed Army Institute of Research,
Silver Spring, USA



Pallab Bhattacharya
National Institute of Pharmaceutical
Education and Research (NIPER),
Ahmedabad, India



David Gulishashvili
University of Maryland, Baltimore,
USA

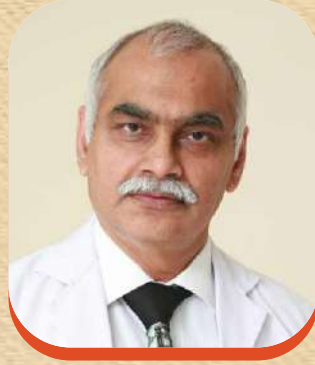


Abdallah Samlemdawod
University of Maryland, Baltimore,
USA



ORGANIZING COMMITTEE

Local Organizing Committee Members



B Bhaskar Rao

Chairman & Managing Director,
KIMS Group of Hospitals, Hyderabad, India



Manas Panigrahi

KIMS Hospital, Hyderabad,
India



Sambit Sahu

Director Medical Services,
KIMS Hospitals, Hyderabad, India



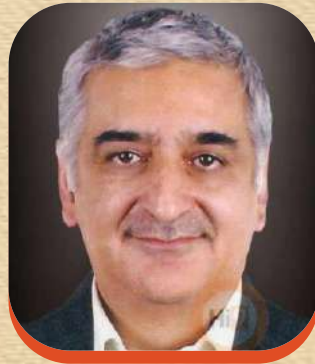
Suresh Devineni

Chairman,
Tenet MedCorp, Hyderabad, India



Sita Jayalakshmi

KIMS Hospital, Hyderabad,
India



Subhash Kaul

KIMS Hospital, Hyderabad,
India



G Ananta Ram

KIMS Hospital, Hyderabad,
India



Timing	Topic	Speaker
08:00 Onwards: Registrations		
SESSION I: RAPID FIRE SHORT ORAL PRESENTATIONS - I		
Chairs: Dr Frank Hertel, Dr Iype Cherian		
08:30 - 08:37	Stem cells in neurological disorders	Dr Sajag Kumar Gupta
08:37 - 08:44	Minimally invasive port-based para fascicular surgical corridor (MIPS): clinical outcomes and complications in brain tumor surgery	Dr Mohana Rao Patibandla
08:44 - 08:51	Towards autonomous surgical planning for minimally invasive neurosurgery procedures	Dr Nirav Kumar Patel
08:51 - 08:58	Phantom trial runs of robot assisted neurosurgical suite	Dr Gaurav Bhutani
08:58 - 09:05	N2-modification of cap analogues provides efficient translation process	Dr Anna Stankiewicz-Drogon
SESSION II: ARTIFICIAL INTELLIGENCE		
Chairs: Dr Subhash Kaul, Dr Abdallah Salemdawod		
09:05 - 09:20	Development of deep learning algorithm to assess cerebral collaterals	Dr Dheeraj Dhane
09:20 - 09:35	Cisternostomy to our journey to uncover brain cooling and the implications	Dr Iype Cherian
09:35 - 09:50	Prognostication of ischemic stroke outcome using machine learning techniques	Brig (Dr) S P Gorthi
09:50 - 10:05	Discussion	
10:05 - 10:20	Tea Break	
SESSION III: MOLECULAR IMAGING		
Chairs: Dr Dr G Ananta Ram, Dr Lukasz Kalkowski		
10:20 - 10:35	<i>In vivo</i> MPI cytometry	Dr Jeff W. M. Bulte
10:35 - 10:50	Energy metabolites in tissue detected by CEST MRI	Dr Jiadi Xu
10:50 - 11:05	MRI biomarker development for ICH: poised for human translation	Dr Neeraj Choudhary
11:05 - 11:20	Discussion	
SESSION IV: STEM CELLS		
Chairs: Dr Suchanda Bhattacharjee, Dr Yajie Liang		
11:20 - 11:35	Multiparametric and multimodal imaging of glial and neural progenitor cell therapy for ALS	Dr Shreyas Kuddanaya
11:35 - 11:50	Endovascular stem cell therapy following stroke promotes mitochondrial biogenesis, transfer and resilience	Dr Pallab Bhattacharya
11:55 - 12:05	Unveiling the evolving interplay of SIRT3 and NLRP3 inflammasome in shaping stem cell fate during ischemic stroke	Dr Syed Shadab Raza
12:10 - 12:20	Discussion	



5th Jan 2024 | Day 1

Venue: Hotel Sitara, Ramoji Film City

Timing	Topic	Speaker
KEYNOTE LECTURE		
Chairs: Dr KVR Sastry, Dr Michal Zawadzki		
12:20 - 12:40	Clinical applications of new technology in neurosurgery	Dr Manas Panigrahi
12:40 - 12:45	Discussion	
12:45 - 13:00	Conference Inauguration	
13:00 - 14:00	Lunch Break	
SESSION V: BIOMATERIALS		
Chairs: Dr Renata Grzela, Dr Prakash Babu		
14:00 - 14:15	Hydrogel-based image-guided delivery to the central nervous system	Dr Luiza Stanaszek
14:15 - 14:30	Focused ultrasound- and polymeric nanoparticle-mediated nucleic acid delivery to the brain	Dr Jung Soo Suk
14:30 - 14:45	Development of bispecific antibody conjugates and beyond	Dr Yoshinori Kato
14:45 - 15:00	Discussion	
SESSION VI: RAPID FIRE SHORT ORAL PRESENTATIONS - II		
Chairs: Dr Sujith Sajja, Dr Pallab Bhattacharya		
15:00 - 15:07	Engineering glial progenitor cells to facilitate P2x7 receptor blockade as a therapeutic strategy for addressing acute inflammation resulting from traumatic brain injury (TBI)	Dr Lucia Fadon-Padilla
15:07 - 15:14	Ultrasound guidance in brain surgery	Dr Suchanda Bhattacharjee
15:14 - 15:21	Patient-derived primary culture-based prognostic model to predict tumor recurrence in patients with glioma	Dr Vinod Kumar
15:21 - 15:28	Unlocking hope: exosome-based liquid biopsy revolution in glioma	Dr Syed S Beevi
15:28 - 15:35	Design and development of bionic eye with researchers prospective	Prof. Bhujanga Rao
15:35 - 15:55	Tea Break	
SESSION VII: GULLAPALLI YOUNG INVESTIGATOR AWARDS COMPETITION - I		
Chairs Dr Yoshinori Kato, Dr Sambit Sahu		
15:55 - 16:04	Computational analysis of Parkinson's disease with STN-DBS using machine learning intelligence	Dr Venkateshwara Rama Raju
16:04 - 16:13	Exploring the relationship between low density plaque on CT carotid angiography and lipid profile	Dr Pujitha Innamuri
16:13 - 16:22	Automated two-photon imaging platform (A2PIP) with bessel beam for functional cell tracking	Mikolaj Walczak
16:22 - 16:31	Role of rs fMRI in assessing the secondary language areas and contralateral language areas in patients with brain tumors	Dr L Geetha Ranjani
16:31 - 16:40	Focused ultrasound BBB opening to facilitate non-invasive, spatially-selective autoimmune demyelination in rats as a new model for multiple sclerosis	Dr Lukasz Kalkowski



5th Jan 2024 | Day 1

Venue: Hotel Sitara, Ramoji Film City

Timing	Topic	Speaker
16:40 - 16:49	Radiomic texture analysis: a latest application from the determined methods in neuroscience	Dr Venkateshwara Rama Raju
16:49 - 16:58	Dual-modality (MRI/two-photon microscopy) mouse brain imaging utilizing a modular cranial fixation system	Colleen Russell
16:58 - 17:07	Image guidance using high resolution cone beam CT during aneurysm treatment	Dr Saherish Khan
17:07 - 17:16	Neurointerventions via radial access. Towards new gold standard in endovascular neurosurgery	Dr Blazej Nowak
20:00 onwards	Networking Event: Inaugural Dinner	

6th Jan 2024 | Day 2

Venue: Hotel Sitara, Ramoji Film City

Timing	Topic	Speaker
	07:30 Onwards: Registrations	
SESSION VIII: GULLAPALLI YOUNG INVESTIGATOR AWARDS COMPETITION - II		
Chairs: Dr Michael Lim, Dr Neeraj Choudhary		
08:00 - 08:09	Digital twins: patient specific cancer treatment simulation model with chemotherapy drug diffusion	Dr Prasanth BOKAM
08:09 - 08:18	Development of targeted therapy for brain tumors in the context of innovative routes of drug administration	Dr Angelika Kaczyńska
08:18 - 08:27	Co-targeting the PD1 immune checkpoint and the VEGF - A growth factor increases the cytotoxicity of exhausted T cells against glioblastoma in vitro	Shriya Madan
08:27 - 08:36	Impact of image guidance for selecting recanalization technique with histological evidence in ischemic stroke	Dr Yasam Preethi
08:36 - 08:45	Impact of point mutations in the tuberous sclerosis complex gene 2 on the structure and function of tuberin	Mikolaj Żarłak
08:45 - 08:54	Leveraging human mesenchymal stem cells as in situ "drug factories" producing P2x7-blocking nanobody for adjuvant therapy of stroke	Dr Lukasz Kalkowski
08:54 - 09:03	2pLIASN enables intravital long-term functional single cell tracking for transplanted cells	Dr Jinghui Wang
09:03 - 09:12	Patient-specific mathematical modelling of convection-enhanced drug delivery to heterogeneous brain tumour based on dynamic contrast-enhanced MR images	Dr Ajay Bhandari
SESSION IX: ENDOVASCULAR DRUG DELIVERY		
Chairs: Dr Manas Panigrahi, Dr Kazim Narsinh		
09:15 - 09:30	Clinical applications of the real-time MRI guidance for endovascular procedures - past, present and future	Dr Michal Zawadzki
09:30 - 09:45	Combination therapy for GBM - the role of cannabinoids and IA bevacizumab	Dr Paul Bhogal



Timing	Topic	Speaker
09:45 - 10:00	Endovascular cell therapy for ischemic stroke: the burning hope for clinical translation	Dr Dileep Yavagal
10:00 - 10:15	Discussion	
10:15 - 10:30	Tea Break	
SESSION X: NEUROSURGERY POWER SESSION		
Chairs: Dr Jarek Maciaczyk, Dr Komal Prasad Chandrachari		
10:30 - 10:45	Stereotactic radiosurgery: need for appropriate image guidance	Dr Aditya Gupta
10:45 - 11:00	Insights from combined structural and functional brain mapping in glioma patients using structural connectivity atlas (SCA) and independent component analysis (ICA) resting fMRI.	Dr G Ananta Ram
11:00 - 11:15	Preclinical evaluation of a skull-mounted robotic system for MRI/CT guided burr hole neurosurgery	Dr Nirav Patel
11:15 - 11:30	Asleep deep brain stimulation (aDBS) and image-guided programming for parkinson's disease and movement disorders using direct visualization, fibre tracking and directional leads	Dr Dhanunjaya Rao Ginjupally
11:30 - 11:45	Discussion	
Luncheon Seminar		
11:45 - 12:15	PET/MR solutions in preclinical neuro Imaging (Sponsored by Bruker BioSpin)	 Dr Cesar Molinos (Bruker, Germany)
12:15 - 12:20	Discussion	
12:20 - 13:30	Lunch Break	
SESSION XI: STROKE		
Chairs: Dr Jiadi Xu, Dr Prakash Babu		
13:30 - 13:45	Imaging recovery in ischemic vs hemorrhagic stroke	Dr Sean Savitz
13:45 - 14:00	Taking anti-IL-17 in stroke to the clinic	Dr Tim Magnus
14:00 - 14:15	Stroke genetics and its potential clinical applications	Dr Subhash Kaul
14:15 - 14:30	Hyperacute multi-omics predicts stroke outcome	Dr Shen Li
14:30 - 14:45	Discussion	
SESSION XII: BRAIN CANCER		
 CHAIRS: Dr Aditya Gupta, Shriya Madan		
14:45 - 15:05	Next generation of checkpoint inhibitors for GBM (Keynote Lecture)	Dr Michael Lim
15:05 - 15:20	Expanding the horizons of wnt signaling and adoptive cell immunotherapy for glioblastoma	Dr Amit Sharma
15:20 - 15:35	Multi-scale image guidance for brain cancer treatment	Dr Miroslaw Janowski
15:35 - 15:50	Design thinking: accelerating innovation in neurosurgery for GBM	Dr Komal Prasad Chandrachari
15:50 - 16:05	Discussion	



6th Jan 2024 | Day 2

Venue: Hotel Sitara, Ramoji Film City

Timing	Topic	Speaker
16:05 - 16:20	Tea Break	
SESSION XIII: ENDOVASCULAR BBB OPENING		
Chairs: Dr Yavagal, Dr David Gulisashvili		
16:20 - 16:35	Safety and efficacy of osmotic blood-brain barrier disruption: challenges and opportunities	Dr Prakash Ambady
16:35 - 16:50	Disrupting the blood-brain barrier to enhance therapeutic delivery to the CNS	Dr Kazim Narsinh
16:50 - 17:05	Novel combination of osmotic blood brain barrier openers	Dr Guanda Qiao
17:05 - 17:20	Discussion	
SESSION XIV: NEURODEGENERATIVE DISORDERS		
Chairs: Dr S Sita Jayalakshmi, Dr Lucia Fadon-Padilla		
17:20 - 17:35	NanoSynFAST as a chemigenetic indicator of alpha-synuclein aggregation dynamics in live cells	Dr Yajie Liang
17:35 - 17:50	Psychedelics for neurodegenerative diseases	Dr Urszula Kozlowska
17:50 - 18:05	Molecular mechanisms underlying neurological diseases	Dr Prakash Babu
18:05 - 18:20	Discussion	
19:00 - 21:00	SIGN business meeting	
Explore Ramoji Film City (Free Evening)		

7th Jan 2024 | Day 3

Venue: KIMS Hospital, Secunderabad

Timing	Topic	Speaker
07:30 - 09:00	Transport from Ramoji to KIMS Hospital, Secunderabad	
SESSION XV: TBI AND STROKE FROM SMALL TO LARGE ANIMALS		
Chairs: Dr Amit Sharma, Dr Dheeraj Gandhi		
09:00 - 09:15	Pre-clinical modeling of blast injuries with translatable outcome measures	Dr Sujith Sajja
09:15 - 09:30	New advances in modelling stroke in swine	Dr Teresa Gasull Dalmau
09:30 - 09:45	MRI evaluation of regenerative stem cell therapies in stroke and TBI pig models	Dr Frank West
09:45 - 10:00	Biomedical image analysis – towards clinically applicable models. a critical view on AI-based analysis of public databases and their potential use for clinical purposes	Dr Frank Hertel
10:00 - 10:15	Discussion	
SESSION XVI: NUCLEIC ACIDS		
Chairs: Dr Satish S, Urszula Kozlowska		
10:15 - 10:30	Toward mRNA therapeutics: the emerging role of 5' cap mRNA modifications and look at native and synthetically introduced RNA modifications	Dr Renata Grzela



7th Jan 2024 | Day 3

Venue: KIMS Hospital, Secunderabad

Timing	Topic	Speaker
10:30 - 10:45	CRISPR-based base editing of tuberous sclerosis complex 2 gene in human mesenchymal stem cells	Dr Abdallah Salemdawod
10:45 - 11:00	Liquid biopsy for brain tumors	Dr Amitava Ray
11:00 - 11:15	Discussion	
11:15 - 11:30	High-Tea	
SESSION XVII: FOCUSED ULTRASOUND		
Chairs: Dr Mohan Das, Dr Blazej Nowak		
11:30 - 11:50	MR guided FUS: next frontier in image guided (non-surgical) neurosurgery (Keynote Lecture)	Dr Dheeraj Gandhi
11:50 - 12:05	Image-guided CD47 blockade in conjunction with the focused ultrasound-based blood-brain barrier opening to treat diffuse intrinsic pontine glioma in a mouse model	Dr David Gulisashvili
12:05 - 12:20	Focused ultrasound to enhanced drug delivery in humanized NOG-IL34 mice for eradication of HIV	Dr Linda Chang
12:20 - 12:35	Discussion	
12:35 - 13:35	Lunch Break	
SESSION XVIII: NEUROMODULATION		
Chairs: Prof. Bhujanga Rao, Dr Linda Chang		
13:35 - 13:50	High-throughput ultrasound neuromodulation in freely behaving rats	Dr Tommaso Di Ianni
13:50 - 14:05	EEG, PET and fMRI guided brain implants for tinnitus and pain	Dr Dirk De Ridder
14:05 - 14:20	Future of neuromodulation in chronic pain treatment	Dr Jarek Maciaczyk
14:20 - 14:35	Discussion	
14:35 - 15:00	Gullapalli Award Distribution, Felicitation and Valedictory Function	
15:00 - 16:00	KIMS Hospital Tour	
16:00 onwards	Glimps of Hyderabad - City Tour	





Society for Image Guided Neurointerventions (SIGN), Inc.

606 Coventry Road, Baltimore, MD 21286.

Contact: neurosignsociety@gmail.com | Website: www.neurosignsociety.org

Conference Secretariat

Dr Manas Panigrahi,

Head, Department of Neurosurgery,
Krishna Institute of Medical Sciences (KIMS)
Minister Road, Hyderabad - 03
M: +91 9676541985 | Phone: +1 443 939 5235

Dr Sambit Sahu,

Director Medical Services
Krishna Institute of Medical Sciences (KIMS)
Minister Road, Hyderabad - 03

Title Sponsor



Event in Collaboration with

