

**List of Poster Presentations in the Conference on Magnetic Resonance in Medicine & 25<sup>th</sup> National Magnetic Resonance Society Meeting**

S. No.	Accepted Posters	Author
1	1H HRMAS NMR based lipid and metabolite profiling of Oral SCC with perineural invasion: A blinded study	Anup Paul, Abhinav A Sonkar, Jaibodh Kumar and Raja Roy
2	1H-NMR based metabolic profiling in five Chemotypes of Cymbopogon flexuosus (lemongrass)	Balakishan Bhukya, Arvind Singh Negi, Hari Om Gupta, Karuna Shankar, Namita Gupta, Anju Yadav, Manju Singh, Sudeep Tandon and Shailesh Kumar
3	A 1 H-[ 13 C]-NMR Investigation to Evaluate Impact of Rasa Sindoor in CUMS Model of Depression	Akila Ramesh, TK Sampath Kumar, Sreemantula Arun Kumar, Anant Bahadur Patel
4	Binding of berberine induces thermal stabilization to parallel G-quadruplex [d-(TTAGGGT)] 4 : A spectroscopy study	Kumud Pandav, Adhada Sri Teja, Ritu Barthwal
5	Blood Plasma Shows Metabolic Changes in Patients of Acute Myeloid Leukemia studied by NMR Metabolomics	Sujeet Mewar, Dimpy Gupta, Rahul kumar, Pawan Kumar, Aditya Kumar Gupta, Sameer Bakhshi, Pranay Tanwar, Virendra Kumar
6	Bone Marrow Metabolomics of Acute Myeloid Leukemia	Virendra Kumar, Pawan Kumar, Dimpy Gupta, Rahul kumar, Sujeet Mewar, Aditya Kumar Gupta, Sameer Bakhshi, Pranay Tanwar
7	Characterization of p52-NF-kappaB subunit by NMR spectroscopy	Ankita Singh Kushwah, Hanudatta S. Atreya, Sulakshana P. Mukherjee
8	Design, synthesis and preclinical evaluation of Gd-DO3AM-Propyl-MPP conjugate as CEST-MRI contrast agent.	Anju Wadhwa, Shubhra Chaturvedi, Deepa Bhaduria, Vishakha Chaudhary, Firasat Hussain, A. K. Mishra
9	Development of pharmacophores essential for allosteric activation of glucokinase	Siddharth Yadav and Punith Mathur
10	Diagnostic Panel of Biomarkers for the Assessment of Sarcoidosis and Tuberculosis identified using NMR based serum metabolomics	Dinesh Kumar, Avinash Jain, Amit Kumar, Anupam Guleria, Ritu Raj, Harshit Singh, Mohit K Rai, Saurabh

		Chaturvedi,Alok Nath,Durga P Misraand Vikas Agarwal
11	Differential Time and Dose-Dependent Metabolic Changes in Single and Fractionated Dose of Gamma Radiation using NMR Metabolomics	Kiran Maan, Ruchi Baghel, Ajaswrata Dutta and Poonam Rana
12	Drug repurposing approach to identify novel inhibitors for targeting DNA gyrase in Mycobacterium tuberculosis: Insights from Biophysical and Biochemical Studies	Balasubramani G L, Rinky Rajput, Manish Gupta, Rakesh Bhatnagar and Abhinav Grover
13	Ease of Extraction of Homonuclear Scalar Couplings by Complete Eradication of Axial Peaks and Preventing the Evolution of Undesired Couplings with Ultrahigh Resolution in Correlated Experiments	Sandeep Kumar Mishra and N. Suryaprakash
14	G-SERF editing in two-dimensional pure shift TOCSY: Scalar coupling measurements from overlapped chemical shift regions of organic molecules	Veera Mohana Rao Kakita and Ramakrishna V. Hosur
15	H/D Exchange rate measurement in water-D2O ionic liquid mixture	Balvinder Singh and Narayanan. D. Kurur
16	Identification of Metabolites in Coriander seeds (Coriandrum Sativum L.) Aided by Ultrahigh Resolution Total Correlation NMR Spectroscopy	Ajay Verma, Rashmi Parihar, Dr. Bikash Baishyaa
17	Identification of structurally rigid segments with important biological functions in intrinsically disordered regions of HOX transcription factors by solution NMR spectroscopy	Snigdha Maiti, Bidisha Acharya, Vedasheersh Boorla, and Soumya De
18	Improved J-RES and TOCSY for complex mixtures	Bikash Baishya, Upendra Singh, Ajay Verma, Rashmi Parihar
19	In-depth NMR Spectroscopic Investigations of Weak Molecular Interactions in Synthesized Derivatives of Benzoyl Urea, Substantiated by DFT Based Computations	P. Dhanishta and N. Suryaprakash
20	Insights into the phase heterogeneity of semicrystalline Polyphenylene sulphide using advanced <sup>13</sup> C solid-state NMR Techniques	Athulya. N, Neelima Bulakh, and T. G. Ajithkumar
21	Interaction of Epirubicin with G-quadruplex DNA leads to stabilization: NMR study	Shailja Raje, Ritu Barthwal
22	Intramolecular Hydrogen Bond in N, N'-(1,3-Phenylene)Dibenzamide Derivatives: Extensive NMR Study Supported by DFT Computations	Anagha Unnikrishnan, P. Dhanishta and N. Suryaprakash
23	Metabolic Biomarkers in Bone Marrow of Childhood Acute Lymphoblastic Leukemia	Pawan Kumar, Rahul Kumar, Sujeet Mewar, Dimpy Gupta, Aditya Kumar Gupta, Sameer Bakhshi, Pranay Tanwar, Virendra Kumar
24	Metabolic Profile Changes after Therapy in Childhood Acute Lymphoblastic Leukemia Studied by NMR	Virendra Kumar, Pawan Kumar, Rahul kumar, Sujeet Mewar, Dimpy Gupta, Aditya Kumar Gupta, Sameer Bakhshi, Pranay Tanwar

25	Metabolic profiling of patients with type 2 diabetic prostate cancer using <sup>1</sup> H-NMR spectroscopy	Pradeep Kumar, Rajeev Kumar, Sanjay Thulkar, Sanjay Sharma, Uma Sharma, S. Senthil Kumaran and Naranamangalam R. Jagannathan
26	Metabolomics of Alcoholic Liver Diseases: <sup>1</sup> H-NMR Approach	Jayalakshmi Kamaiah, Bhriugu Kumar Das, Pramod.C.Gadad
27	Natural abundance <sup>17</sup> O NMR reference chemical shift for lab reagents	Yashwantsinh Jadeja, Anamik Shah and Ranjan Khunt
28	Next Generation Polarizing Agents for Efficient Cross-Effect Dynamic Nuclear Polarization	Asif Equbal
29	NMR as magnetic tongue in chemosensory evaluation	Ankita Singh, Aruna Singh, Dushyant Kumar, Rama Jayasundar
30	NMR based Metabolomics Study of Blood Plasma of Acute Lymphoblastic Leukemia	Pawan Kumar, Rahul kumar, Sujeet Mewar, Dimpay Gupta, Aditya Kumar Gupta, Sameer Bakhshi, Pranay Tanwar, Virendra Kumar
31	NMR based metabolomics of intestinal mucosal biopsies and blood in Celiac Disease: identification of biomarkers for villous atrophy	Deepti Upadhyay, Prasenjit Das, Siddharth Dutta Gupta, Govind K Makharia, Naranamangalam R. Jagannathan and Uma Sharma
32	NMR resonance assignment of p50 subunit of NF-kappaB protein	Tahseen Raza, Priksat Dadhwal, Manish K Choker, Hanudatta S. Atreya and Sulakshana P. Mukherjee
33	NMR structure elucidation, structure based design and optimization of Wollamides A/B and their analogues for antibacterial/anti-mycobacterial activity	Archana Kisan Ghorpade, Koteswara Rao Vankudoth, Udaya Kiran Marelli
34	NMR supersequences with real-time homonuclear broadband decoupling: sequential acquisition of protein and small molecule spectra in a single experiment	Kavitha Rachineni, Veera Mohana Rao Kakita and Ramakrishna V. Hosur
35	NMR-based metabolomic investigation of the evolution of metabolome in a population of <i>Drosophila melanogaster</i> selected for immunity, across ages	Sumit Mishra, Navdeep Gogna, Boddu Satya Spandana, N. G. Prasad and Kavita Dorai
36	Nuclear magnetic resonance spectroscopy based urinary metabolic profiling in Post Traumatic Stress Disorder Rats	Priya Singh, Hemanth Kumar B.S, Vijayakumar C, and Rina Chakarbarty
37	Probing fibrilization and aggregation of insulin in the crowded environment using Diffusion and relaxation NMR spectroscopy	Jyotsana Ojha, Aditya Mishra and Kavita Dorai
38	Rational Design of a Split Enzyme for Biotechnological Applications guided by Solution NMR	Soumendu Boral, Veda Sheersh Boorla

	Spectroscopy	and Soumya De
39	Solution NMR study of Pancreastatin (PST) and Anti-PST peptides towards understanding their role in treating Diabetes	Jayanti Vaishnav, Ravi S. Ampapathi
40	Solution structure and thermal stabilization of G quadruplex DNA [d-(TTGGGGT)] <sub>4</sub> bound to anticancer drug adriamycin	Zia Tariq, Ritu Barthwal
41	Structural and dynamic studies of mouse BTNL2 IgV1 domain by solution NMR spectroscopy	Aditya J. Basak, Woonghee Lee, Snigdha Maiti, Soumya De and Dibyendu Samanta
42	Structural Elucidation of NASICON (Na <sub>3</sub> Al <sub>2</sub> P <sub>3</sub> O <sub>12</sub> ) Based Electrolyte Glass Materials using multinuclear Solid-state NMR	Kavya Illath, Chaithanya Hareendran, T. G. Ajithkumar, Amarnath R. Allu, Sathravada Balaji, Kaushik Biswas, and K. Annapurna
43	Study of the structure and dynamics of ionic liquids using PFG-NMR	Riyaz Ahmed, Jyotsna ojha, Kavita Dorai
44	Suppressing the Giant Singlet Metabolite Peaks for Improving the J-RES Spectra from Bio-fluids and Complex Mixtures	Upendra Singh and Bikash Baishya
45	Synthesis and solid state NMR study of Vanadium based foams	Balvinder Singh and Narayanan. D. Kurur
46	The In-depth NMR investigations of Weak Molecular Interactions in N,N'-([1,1'-binaphthalene]-2,2'-diyl) bis(benzamide) and its derivatives	Arun Kumar Patel, Kiran Krishnamurthy, Sandeep Kumar Mishra and N. Suryaprakash
47	Understanding the differential structural features of monomeric and dimeric IL8 and their interaction with baicalin using NMR and biophysical techniques	Krishnakant Gangele, and Krishna Mohan Poluri,
48	Understanding the Metabolic disturbances associated with high glucose and palmitate associated toxicity in pancreatic beta cells	Saleem Yousf, Devika M. Sardesai, Abraham B. Mathew, Rashi Khandelwal, Jhankar D. Acharya, Shilpy Sharma, and Jeetender Chugh
49	Understanding the Role of Gender in Progression of Alzheimer's Disease: A 1 H-[ 13 C]-NMR Study	Narayan Datt Soni and Anant Bahadur Patel
50	Unravelling maximum metabolic insight by NMR spectroscopy of blood serum through optimized approach	Swarnima Pandey, Adnan Md. Siddiqui and Neeraj Sinha
51	Validating the utility of unsupervised machine learning in segmenting different parts of glioma with respect to histopathological ground truth	Neha Vats, Virendra Kumar Yadav, Anirban Sengupta, Rakesh Kumar Gupta, Rishi Pal Chauhan, Anup Singh,
52	Analyses of Multi-Protein Complexes with Cytosolic Tail of Integrin Signalling	Deepak Chatterjee

53	Elucidating the role of protein partnerships in modulating DNA binding specificity of transcription factors	Bidisha Acharya, Somya De and Snigdha Maiti
54	mTOR protein-protein interaction (PPI) network and differential gene expression analysis for identification of drug targets in breast cancer	Richa Buddham, Priyanka Narad, Gauri Misra, Puniti Mathur
55	Application of Wavelet Transform to NMR and Spin Noises Spectroscopy	D.Adilakshmi, and K. V. Ramanathan,
56	Experimental demonstration of twin inequality for fully contextual quantum correlations	Dileep Singh, Jaskaran Singh, Arvind and Kavita Dorai
57	Inverting the Noisy Linear Algebraic and Integral equation: Which one is better Tikhonov or Lasso?	Upanshu Gangwar and Narayanan D. Kurur
58	Long-Lived Coherences (LLC) in Three Spin System	Ritu Raj Mishra and Prof. Narayanan D. Kurur
59	Simulation and detection of Qubit-Ququart Bound Entanglement using Three-Nuclear-Spin Ensemble	Akanksha Gautam, Amandeep Singh, Arvind, Kavita Dorai
60	Assessment of Whole Body Radiation Induced Early, Sub Acute and Delayed Changes in Mice Brain Using MR Techniques	Poonam Rana, Mamta Gupta, Apurva Watwe, Seenu Haridas, Kailash Manda, Subash Khushu
61	Altered functional connectivity following olfaction fMRI in Patients with Parkinson's disease	Shefali Chaudhary, S Senthil Kumaran, Vinay Goyal, Gauri Shanker Kaloiya
62	Brain morphometrical changes in subclinical hypothyroidism	Deepak Sharma, Mukesh Kumar, Shilpi Modi,Prabhjot Kaur, Tarun Sekhri, Subash Khushu
63	Cortical thickness detection with structural T1 MR imaging on hemiplegic patients and dissecting meaningful cortical and sub-cortical structures in the Brain	Pankaj, Israni Anil, Gulati Shefali, Surabhi Ramawat, S Senthil Kumaran
64	Discriminated cortical thickness of visual cortex in early blind, late blind during critical developmental time	Ankeeta, S.Senthil Kumaran, Priyanka Bhat, Shefali Chaoudhary, Vinay Goyal
65	Mahalanobis distance based multi-model fusion of resting-state fMRI, diffusion kurtosis and tensor imaging	Vijayakumar, CM Sreedhar, Ardaman kaur, Swati Agrawal
66	Memory lateralization in pre-and post-surgery mesial temporal lobe epilepsy patients: a combined fMRI and VBM study	Kapil Chaudhary, S. Senthil Kumaran, P Sarat Chandra, Manjari Tripathi
67	Modulation of frontal and parietal alpha neural underpinning during moderate and high cognitive loading: EEG informed fmri analysis	Himanshu Singh, C.Vijayakumar, Abhay Charanb, Maria M D'Souzaa, Pawan Kumara, Prabjot Kaura
68	Modulation of neural Correlates of pupil dilation with moderate and higher cognitive load during Target detection task	Abhishek Kumaa, C. Vijaykumar, P. Koteswara Rao, Maria D Souza,

		Himanshu Singh, Ardaman Kaur, Swati Agrawal, Pawan Kumar, Prabjot Kaur
69	Modulation of neural correlates of target detection process by moderate and high cognitive loading	Abhishek Kumar, C. Vijaykumar, P. Koteswara Rao, Maria D Souza, Swati Agarwal, Ardaman Kaur, Himanshu Singh, Pawan Kumar, Prabjot Kaur
70	MR-based assessment of yoga and physiotherapy induced changes in post-stroke recovery	Dushyant Kumar, Rajesh Mishra, Priyanka Bhagat, Chahat, Surbhi Kaura, Padma Srivastava, Rama Jayasundar
71	MRI based tracking of infused labelled mesenchymal stem cells and its differentiation potential in traumatic brain injury mice	Sushanta Kumar Mishra, Poonam Rana, Gurudutta Gangenahalli, and Subash Khushu
72	Multiparametric MRI based PI-RADS assessment of prostate cancer	Dharmesh Singh, Virendra Kumar, Chandan J Das, Anup Singh, , Amit Mehndiratta
73	Novel Penalty function based DWI-IVIM Analysis for Prostate Cancer	Archana Malagi, Chandan J. Das, Esha Badiya Kayal, Kedar Khare, Amit Mehndiratta
74	Role of Functional MRI for neurorehabilitation in developmental dyslexia	Sunita Gudwani, S.Senthil Kumaran, Rajesh Sagar, Madhuri Behari, Manju Mehta, Vaishna Narang, SN Dwivedi, and NR Jagannathan
75	Segmentation and Grading of Glioma	Anirban Sengupta, Sumeet Agarwal, Rakesh K. Gupta, Anup Singh,
76	SLICS based automatic segmentation of prostate gland	Sayantana Bhattacharya, Dharmesh Singh, Virendra Kumar, Chandan J Das, Anup Singh, Amit Mehndiratta
77	Study of bilingualism in drug refractory epilepsy (DRE) using multimodal (fMRI, VBM and SBM) approach	Kapil Chaudhary, S. Senthil Kumaran, P Sarat Chandra, Manjari Tripathi
78	Temporal Alterations in Microstructural and Behavioural Changes in Hippocampus Following Traumatic Brain Injury	Megha Kumari, Richa Trivedi, Kavita Singh, Mayank Kumar, Kailash Manda, Maria M D'souza
79	Effect and optimization of offset frequency step size for CEST asymmetry and Z-spectra analysis in human brain at 7T	Ayan Debnath, Hari Hariharan, Ravi Prakash Reddy Nanga, Ravinder Reddy,

		Anup singh
80	Gd chelate of macrocyclic DO3A conjugated with ferrocene as a high relaxivity MRI blood-pool contrast agents (BPCAs)	Vishakha Chaudhary, Shubhra Chaturvedi, Anju Wadhwa, Deepa Bhadauria, Rupesh Kumar, A.K. Mishra
81	Iron(III)-Based dual T1-MRI and Near-IR Fluorescence (NIRF) Agent to Visualize Cancer cells	Duraiyarasu Maheshwaran, Ramasamy Mayilmurugan
82	Redox-Active Manganese Based T1-MRI agents for L-Cysteine Metabolism	Thavasilingam Nagendraraj, Ramasamy Mayilmurugan
83	Responsive Smart Contrast Agents: Gadolinium-Based Contrast Agents for Magnetic Resonance Imaging	Garima Mann, Dr. Anupama Datta

#### **IMPORTANT**

1. The Presenting Author of Odd Numbered Posters should be near the poster on 14<sup>th</sup> February, 2019 (from 1 to 3pm).
2. The size of the Poster Board is 1 x 1 m.
3. Please mount the posters before 11 am on 14<sup>th</sup> February, 2019.
4. The posters may be removed after 4 pm on 15<sup>th</sup> February, 2019 (latest by 4 pm on 16<sup>th</sup> February, 2019).
5. The Awards for Four Best Poster Presentations will be decided by a Committee, and will be presented by 4 pm on 16<sup>th</sup> February, 2019 in the Valedictory function.
6. The award carries a Certificate and a Cash Award.