



KASTURBA MEDICAL COLLEGE
MANIPAL

(A constituent unit of MAHE, Manipal)

Department of Physiology



Virtual CME on
Research Updates in
Parkinson's Disease

24th August 2021 | 10.00 am to 4 pm

Guest Speakers

Dr Mamata Ballal

Professor

Department of Microbiology, Head, Enteric Diseases Division
Kasturba Medical College, Manipal

Gut Microbiome: The gut-brain connectivity in Parkinson's disease

10.00 a.m. - 11.00 a.m.

Dr Suman Jain

Professor

Department of Physiology
All India Institute of Medical Sciences, New Delhi

Nanomedicine and transcranial magnetic stimulation for functional and morphological recovery in Parkinson's disease

11.00 a.m. - 12.00 p.m.

Dr Pramod Pal

Professor

Department of Neurology,
National Institute of Mental Health & Neurosciences (NIMHANS), Bangalore

Biomarkers in Parkinson's Disease

12.00 p.m. - 1.00 p.m.

Dr Somasish Ghosh Dastidar

Assistant Professor

Centre for Molecular Neuroscience
Kasturba Medical College, Manipal

4E-BP1 and Parkinson's Disease

2.00 p.m. - 3.00 p.m.

Dr Vidyadhara DJ

Postdoctoral Associate & DoD,
Early Investigator

Department of Neurology & Neuroscience
Yale University School of Medicine, USA

Endolysosomal system dysfunction in Parkinson's disease

3.00 p.m.- 4.00 p.m.



Research Updates In Parkinson's Disease

Speakers



Dr Mamata Ballal
Professor
Department of Microbiology
Head of Enteric Diseases Division
KMC, Manipal

Gut Microbiome : The gut-brain connectivity in Parkinson's disease



Dr Suman Jain
Professor
Department of Physiology
AIIMS, New Delhi

Nanomedicine and transcranial magnetic stimulation for functional and morphological recovery in Parkinson's disease



Dr Pramod Kumar Pal
Professor
Department of Neurology
NIMHANS, Bengaluru

Biomarkers in Parkinson's disease



Dr Somasish Gosh Dastidar
Assistant Professor
Center for Molecular Neuroscience
KMC, Manipal

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DEPARTMENT OF PHYSIOLOGY



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CME : Research updates in Parkinson's disease

The CME on research updates in Parkinson's disease was conducted on 24th August 2021

and was organized by the Department of Physiology, Kasturba Medical College, Manipal

The convenor for the CME was Dr. Dhiren D Punja, Professor & Head, Dept of Physiology, KMC-Manipal.

The CME was conducted on the Online Platform on Microsoft Teams. Five distinguished resource persons were involved. There were 102 delegates. An additional 19 participants were organizing faculty and postgraduates of the department of physiology.

Parkinson's Disease (PD) is the second most common neurodegenerative disorder in adults over the age of 60 years. It has been stated that currently, more than 10 million people worldwide are living with PD. This CME was focused on bringing together scientists who are engaged in research to uncover novel aspects in the

pathogenesis, diagnosis and treatment of PD. For this, we have called on eminent scientists from multiple streams for the benefit of researchers who want to explore the field and engage in collaborative research.

The event began at 9.45 AM with a welcome address from *Dr. Sharath K Rao*, Dean, Kasturba Medical College, Manipal. *Dr. Dhiren D Punja*, gave an introduction and an overview of the CME.

The scientific session commenced at 10.00 AM with three talks in the forenoon and two talks in the afternoon. Each talk was of one-hour's duration which also included a Q & A time for the delegates.

The first speaker was *Dr. Mamata Ballal*, Professor in the Department of Microbiology, Head of Enteric Diseases Division, KMC, Manipal who enlightened the audience on the gut-brain connection in PD and the role of gut microflora in the pathogenesis of the disease.

This was followed by a talk by *Dr. Suman Jain*, Professor of Physiology, All India Institute of Medical Sciences, New Delhi who spoke about the use of Nanomedicine and trans-cranial magnetic stimulation for functional and morphological recovery in PD.

Dr. Pramod Pal, Professor in the Department of Neurology, National Institute of Mental Health & Neurosciences (NIMHANS), Bengaluru spoke elaborately on all the novel clinical biomarkers that can help in early detection of PD.


The CME continued in the afternoon with a talk by *Dr. Somasish Ghosh Dastidar*, Assistant Professor from the Centre for Molecular Neuroscience KMC, Manipal who spoke about 4E- BP1 and its role in PD.

The event ended with a talk from an alumnus of the Department of Physiology, KMC, Manipal, *Dr. Vidyadhara DJ*, who is currently a Postdoctoral Associate & DoD, Early investigator in the Department of Neurology & Neuroscience, Yale

University School of Medicine. Dr Vidyadhara DJ spoke on Endolysosomal system dysfunction in Parkinson's disease.


Karnataka Medical Council awarded one credit hour to the delegates and two credit hours to the speakers of the CME.

Introducing *Dr. Mamata Ballal*, Professor in the Department of Microbiology, Head of Enteric Diseases Division, KMC, Manipal



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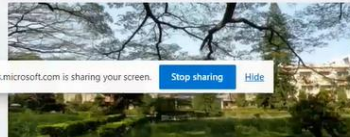

Biomarkers in Parkinson's Disease

Pramod Kr. Pal

Professor of Neurology

National Institute of Mental Health & Neurosciences, Bengaluru



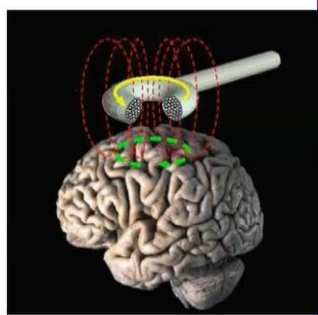
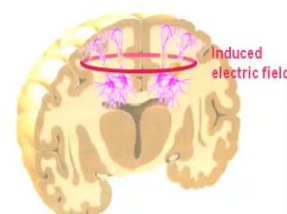



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Dr. Pramod Pal Professor in the Department of Neurology, National Institute of Mental Health & Neurosciences (NIMHANS) beginning his talk on biomarkers in PD.

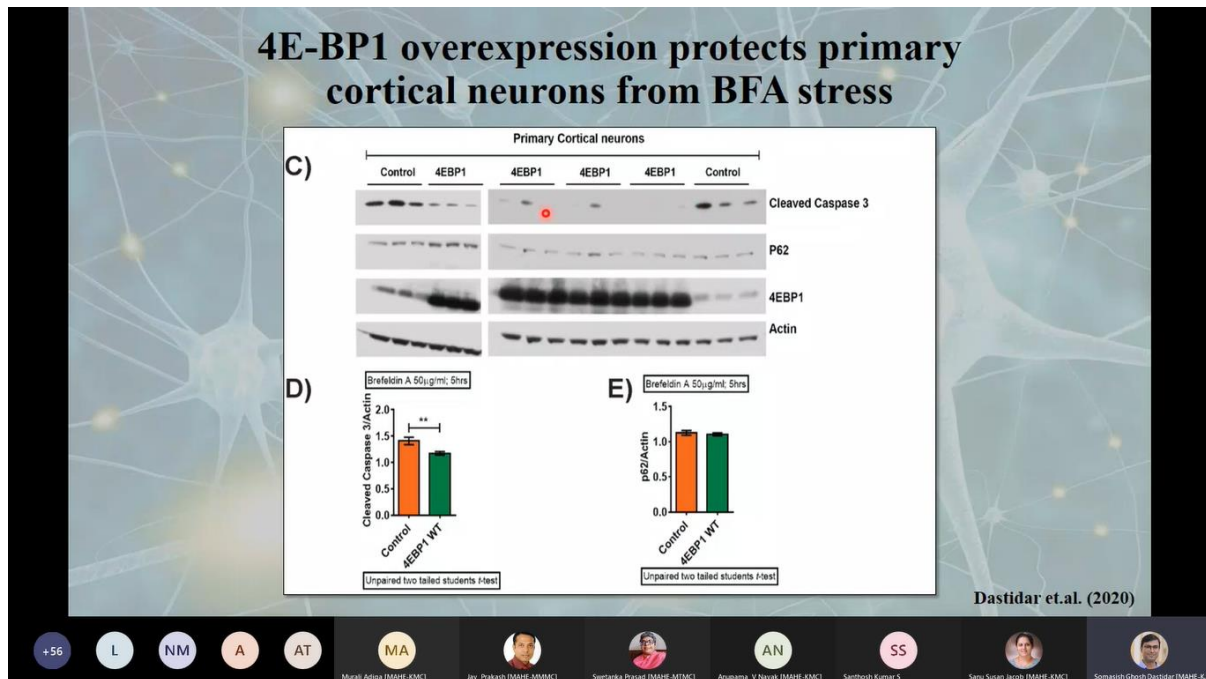
TMS AND ITS PRINCIPLE

- **Transcranial Magnetic Stimulation** is a non-invasive method of brain stimulation / modulation
- **Electromagnetic induction:** uses a rapidly changing magnetic field to induce electric currents.
- Magnetic fields generated in coil are able to pass through skull, bone, fat, skin
- These fields induces electric fields in the underlying tissues
- Generally they penetrate approx 3cm into the brain

+73 VL AS DC Dr Chandrakala B.S CS P MB SJ

Dr. Suman Jain Professor of Physiology, All India Institute of Medical Sciences, New Delhi delivering her talk on ‘Nanomedicine and transcranial magnetic stimulation for functional and morphological recovery in PD’.



Dr. Somasish Ghosh Dastidar, Assistant Professor from the Centre for Molecular Neuroscience KMC, Manipal speaking on ‘4E- BP1 and its role in PD’



Dr. Vidyadhara DJ, Postdoctoral Associate & DoD, Early investigator in the Department of Neurology & Neuroscience, Yale University School of Medicine speaking on Endolysosomal system dysfunction in Parkinson's disease