



KASTURBA MEDICAL COLLEGE

MANIPAL

(A constituent unit of MAHE, Manipal)

**Department of Biochemistry
Kasturba Medical College, Manipal, MAHE
Organizes**

Alumni talk on

“EXPLORING SALIVA DIAGNOSTICS”

by

Dr. Nivedita L Rao
Professor
Department of Biochemistry
Yenepoya Medical College (Deemed to be University)
Mangalore



Date: 28/07/2021

Time: 10:30am – 11:30am IST

Platform: MS Team

Joining link: [Click here to join the meeting](#)

Dr. Vijetha Shenoy Belle
Alumni Coordinator
Department of Biochemistry
Kasturba Medical College, Manipal

Dr. Varashree BS
Professor & Head
Department of Biochemistry
Kasturba Medical College, Manipal

About Alumni:

Dr. Nivedita L Rao obtained both MSc-Medical Biochemistry and Ph.D from Kasturba Medical College, Manipal Academy of Higher Education (MAHE), Manipal, India

Dr. Nivedita L Rao is currently working as Professor in the Dept of Biochemistry at Yenepoya Medical College, Yenepoya (deemed to be University), Mangalore, Karnataka, India. She served as Professor and in-charge Head of Department of Biochemistry, YMC for 5^{1/2} years from 2014-2020. She has 22 years of rich teaching experience in medical college, teaching medical, dental as well as allied health sciences students, both undergraduate and post graduate. She constantly implements innovative teaching-learning and assessment methods. She has guided several postgraduate students in their thesis researches and is a recognized PhD guide.

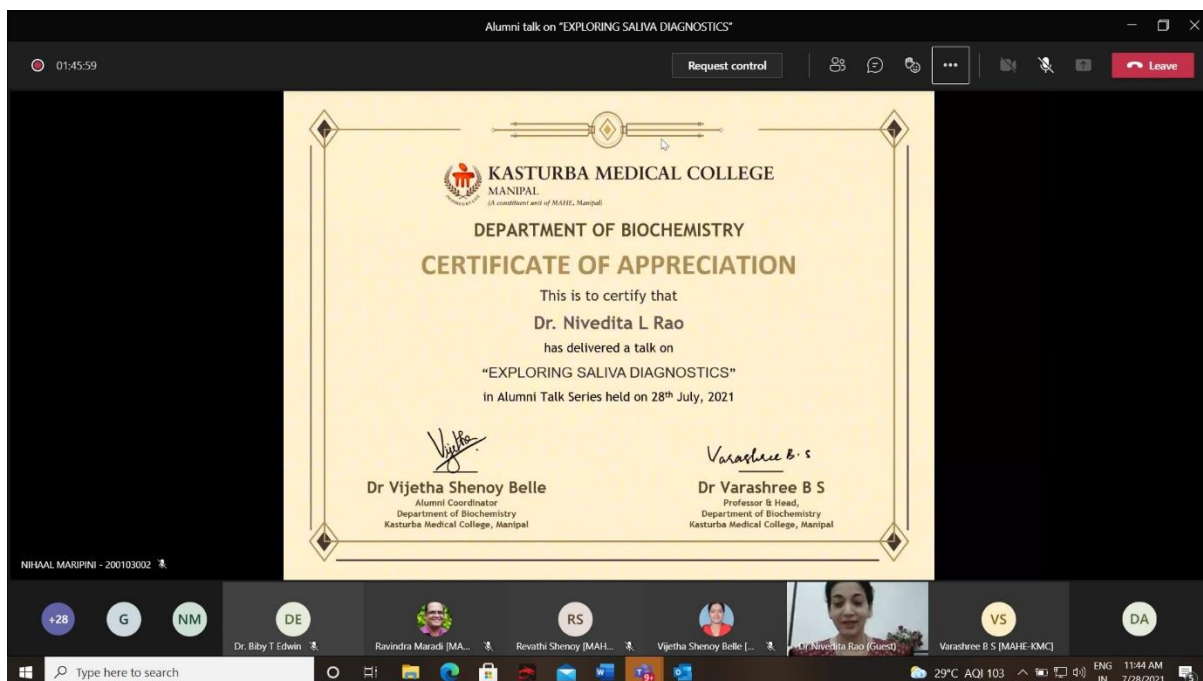
Dr. Nivedita L Rao's research areas include saliva diagnostics, cell calcium, advanced glycation end products, nutrition and healthy lifestyle. She has authored 20 publications in International, National indexed journals and chapters in textbook titled 'Biochemistry and Nutrition for B.Sc Nursing' published by Jaypee Brothers and in the International book titled 'Technological Innovation in Pharmaceutical Research'.

Her first report on saliva C-reactive protein levels in Hashimoto and Subacute thyroiditis, has been credited as an emerging diagnostic test in the BMJ Best Practice website of the eminent British Medical Journal based in London, UK. She is recipient of the Best Poster Award at the 3rd International Conference of Genetic and Molecular Diagnosis in Modern Medicine and Biology, Mangalore.

She authors articles for Green Horizon e-newsletter of Yenepoya Centre for Environmental Studies, to generate environment protection awareness and is the associate editor of IQRA, the Yenepoya University magazine.

OVERVIEW OF ALUMNI TALK

The Alumni Talk by Dr. Nivedita L Rao, was planned by Department of Biochemistry, Kasturba Medical College, Manipal on 28th July 2021. The meeting was conducted on Microsoft Teams platform considering the current Pandemic COVID-19 situation. The meeting started with a welcome note and introduction of the alumnus by alumni coordinator, Dr. Vijetha Shenoy Belle, Associate Professor, Department of Biochemistry, Kasturba Medical College, Manipal. Our esteemed alumnus Dr Nivedita L Rao, interacted with Kasturba Medical College, Manipal Biochemistry Alumni on “*EXPLORING SALIVA DIAGNOSTICS*”. Around 55 delegates attended the meeting. The concluding remarks was delivered by Dr. Varashree BS, Professor and Head, Department of Biochemistry KMC Manipal.



Alumni talk on "EXPLORING SALIVA DIAGNOSTICS"

01:33:47

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THE CREDITS

Acknowledgment

Special thanks to

- Dr Varashree B S, HoD Biochemistry, KMC, Manipal and her dedicated Team
- MAHE Manipal, my Alma mater in my home town
- All the people who have provided support and awesome resources in this exploration of saliva diagnostics.

Participants

Invite someone or dial a number

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Mute all

Presenters (4)

- NM NIHAAL MARIPINI - 20010...
- DR Dr Nivedita Rao (Guest)
- VS Varashree B S [MAHE-KMC]
- Vijetha Shenoy Belle [MAH...]

Attendees (50)

- A akhter (Guest) On hold
- AV Aleena Varughese (Gu...)
- AR ANITHA P RAO - 2001

Dr Nivedita Rao (Guest)

+49 G DE NM

Dr. Biby T Edwin Vijetha Shenoy Belle [...]

Windows Taskbar: 11:31 28-07-2021

Alumni talk on "EXPLORING SALIVA DIAGNOSTICS"

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CORNELL CHRONICLE

Mobile phone-based saliva test wins NIH prize

By Matt Hayes September 10, 2020

Cornell University researchers' concept for a quick, non-invasive, mobile phone-based system to detect infectious diseases, inflammation and nutritional deficiencies in saliva was awarded a **\$100,000 National Institutes of Health Technology Accelerator Challenge prize.**

Team: Dr. Saurabh Mehta, David Erickson, Julia L. Finkelstein, Balaji Srinivasan and Bryan Gannon

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Participants

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Presenters (4)

- SC
- NM
- DA
- G
- DE
- Vijetha Shenoy Belle [...]
- DR Dr Nivedita Rao (Guest)

Attendees (50)

- AV Aleena Varughese (Gu...)
- AR ANITHA P RAO - 2001

Dr Nivedita Rao (Guest)

+47 SC NM DA G DE NM

Greeshma (Guest) Dr. Biby T Edwin Vijetha Shenoy Belle [...]

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01:33:02

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SUMMARY



Saliva diagnostics has significantly expanded over past few years and traversed from oral to systemic conditions.

Novel saliva biomarkers continue being validated and the current applications of saliva diagnostics are promising.

Saliva sampling advantages and technological advances offering quick results, have become turning points in the advancement of saliva diagnostics.

Saliva diagnostics is poised to become the technique of choice in the near future.

Dr Nivedita Rao (Guest)

70

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NM

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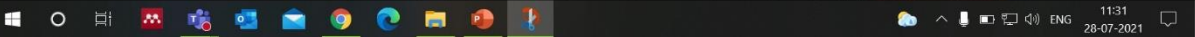
NM

Greeshma (Guest)

Dr. Biby T Edwin

Vijetha Shenoy Belle [...]

Dr Nivedita Rao (Guest)



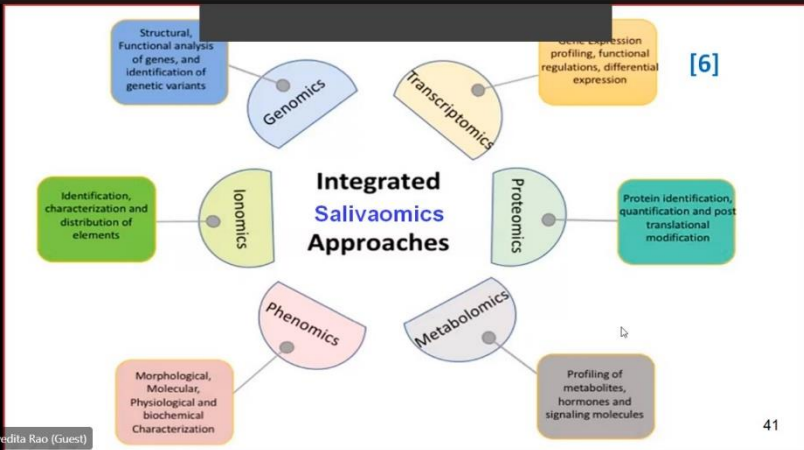
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Dr Nivedita Rao (Guest)

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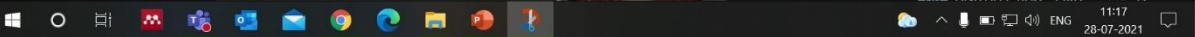


NM

Dr. Biby T Edwin

Vijetha Shenoy Belle [...]

Dr Nivedita Rao (Guest)



11:17 28-07-2021

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Presenters (4)

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NM NIHAAL MARIPINI - 2010...

DR Dr Nivedita Rao (Guest)

VS Varashree B S [MAHE-KMC]

Vijetha Shenoy Belle [MAH...

Attendees (50)

A akhter (Guest)

AV Aleena Varughese (Gu...

AR ANITHA P RAO - 2001

Alumni talk on "EXPLORING SALIVA DIAGNOSTICS"

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Participants

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Presenters (4) Mute all

- NM NIHAAL MARIPINI - 20010...
- DR Dr Nivedita Rao (Guest) Guest
- VS Varashree B S [MAHE-KMC]
- Vijetha Shenoy Belle [MAH... Organiser

Attendees (50)

- A akhter (Guest) Guest
- AV Aleena Varughese (Gu... Guest
- AR ANITHA P RAO - 2001

11:18 28-07-2021

Dr Nivedita Rao (Guest)

+46 SC NM DA G DE NM

Alumni talk on "EXPLORING SALIVA DIAGNOSTICS"

01:02:24

Request control

Participants

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Presenters (4) Mute all

- NM NIHAAL MARIPINI - 200103002
- DR Dr Nivedita Rao (Guest) Guest
- VS Varashree B S [MAHE-KMC]
- Vijetha Shenoy Belle [MAHE... Organiser

Attendees (52)

- AB Abdul Barr (Guest) Guest
- A akhter (Guest) Guest
- AV Aleena Varughese (Guest)

11:00 28-07-2021

Saliva biomarkers in Periodontitis

Saliva Biomarkers	Variation; Role
IL-1	Elevated; Strong relation with periodontal disease, high inflammatory potential
IL-6	Elevated; Stimulates osteoclastic differentiation
Tumor necrosis factor TNF-α	Elevated; Influences bone collagen synthesis
Matrix metalloproteinase-9 MMP-9	Elevated; immune response and tissue degradation [3, 4]

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Dr Nivedita Rao (Guest)