INDO-SWEDISH CONFERENCE AND WORKSHOP

Conference On CLINICAL, EPIDEMIOLOGICAL AND EXPERIMENTAL APPROACHES TO ASSESS AIR POLLUTION RELATED CHRONIC HEALTH EFFECTS (CEEARCH)

(Focus area: Respiratory, Cognitive, Exposure assessment)

Workshop On METHODS IN MOLECULAR BIOLOGY, CYTOGENETICS AND CELL CULTURE

Jointly Organized by

The Departments of Respiratory Medicine, and Biochemistry,
Center of Excellence in Molecular Biology and Regenerative Medicine (CEMR)
Laboratory,

In Association With

Special Interest Groups in Cancer Biology and Cancer Stem Cells and Environment and Respiratory Diseases, JSS Medical College,

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, INDIA And KAROLINSKA INSTITUTET, SWEDEN



January 6th-10th (Monday-Friday), 2020

Venue: Sri Rajendra Auditorium, JSS Medical College,

JSS Academy of Higher Education & Research, Mysuru, Karnataka, India.

PATRON

His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji

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Day 1: Monday, 6 th January 2020 INAUGURAL SESSION					
9:30-10:30	Keynote Address	Prof. Mahesh PA			
	JSS Medical College and Hospital, India	The past, present and future of MUDHRA cohort			
10.30-11.00h	Tea and Coffee Break				
SESSION 1: 11.00-13.00h	COMPLEXITIES OF ADDRESSING AIR POLLUTION MEDIATED HEALTH EFFECTS				
11.00-11.30h	Prof. Kjell Larsson Karolinska Institutet, Sweden	Strengths and weaknesses in real life COPD studies			
11.30-12.00h	Dr. Sri Harsha Kota Indian Institute of Technology Delhi	Mortality associated with different sources of PM 2.5 in India			
12.00-12.30h	Dr S. P. Goswami All India Institute of Speech and Hearing, AIISH, Mysore	Use of Narrative Methods in Research			
12.30-13.00h	Dr. Koustav Ganguly Karolinska Institutet, Sweden	Integrating epidemiological, clinical and basic research: The vision for MUDHRA study			
13.00-14.00 h	Lunch				
SESSION 2 14.00-16.00h	EXPOSURE ASSESSMENT				
14.00-14.30h	Prof. Gunnar Johanson Karolinska Institutet, Sweden	Overview of methods for personal exposure monitoring of airborne pollutants			
14.30-15.00h	Dr. Mukesh Khare Indian Institute of Technology, Delhi	Urban Air Pollution in India: Current Scenario			
	Tea and Coffee Break				
15.00-15.30h	Dr. Krystal Pollitt Yale University, USA	Writing Your Exposure Biography using Wearable Passive Air Samplers			
15.30-16.00h	Dr. Pallavi Pant,	Exposure to air pollution in India:			
	Health Effects Institute, Boston, MA, USA	Current status			

Day-2. Tuesday, 7 th January 2020				
SESSION 1 9.00-10.30	LUNGS AND BEYOND			
9.00-9.30h	Dr. Kalpana Chandra Medical Officer, Delhi Jal Board, New Delhi	Respiratory impact of occupational inhalational exposure in sewage workers		
9.30-10.00h	Dr. Murali Krishna CSI Holdsworth Memorial Hospital, Mysore, India	Lung function and cognition		
10.00-10.30h	Dr. Mina Chandra Post Graduate Institute of Medical Education and Research & Dr. Ram Manohar Lohia Hospital, New Delhi, India	Air-pollution and cognition		
10.30-11.00h	Tea and Coffee Break			
11.00-13.00h	SESSION 2: EXPERIMENTAL APPROACHES			
11.00-11.30h	Prof. Lena Palmberg Karolinska Institutet, Sweden	In vitro models to study mechanisms behind development of chronic bronchitis and COPD caused by environmental factors		
11.30-12.00h	Dr. U. Mabali Rajan Indian Institute of Chemical Biology, Kolkata	In Vivo models to study environmental lung diseases		
12.00-12.30	Dr. Lena Ernstgård Karolinska Institutet, Sweden	Exposure system for vapor exposure of cells at air liquid interface		
12.30-13.00	Dr. Swapna Upadhyay Karolinska Institutet, Sweden	The scope of natural protective compounds as a nutritional supplementation strategy: Translating bench to home		
13.00-14.30h	Lunch (Poster Presentation)			
14.30-15.00h	The SRM-DBT Platform for advanced Life Science Technologies: Facilities and services Prof. M. Vairamani, Dr. K.M. Ramkumar and Dr. Padma Sandeep Koka; SRM Institute of Science and Technology			
15.00-16.00h	VALEDICTORY			

WORKSHOP ON METHODS IN MOLECULAR BIOLOGY, CYTOGENETICS, AND CELL CULTURE

Day 3: 8th January 2020 (Wednesday) Workshop on Cell Culture Techniques Venue: CEMR Laboratory, JSS Medical College, JSS AHER

Session I:

9:00am - 9:30am: Lecture #1: Fundamentals and Applications of Cell Culture in Drug Discovery -

Dr. SubbaRao

9:30 - 10:00am: Lecture #2: Good cell culture practices - Dr. Divya

Workshop:

10:00 - 10:45am: Revival, splitting, cell counting, maintenance and freezing of cell lines

10:45 -11:00am: Tea & Coffee Break

11:00 – 1:00pm: Gene knockdown using siRNA

1:00 - 1:30pm: Lunch

1:30 – 3:00pm: Plating of cells in to 96-well plates and treatment of cells with drugs (using a plate ready for

treatment)

3:00 - 3:15pm: Tea and Coffee Break

3:15 – 4:00pm: Cell viability assay (MTT/MTS/SRB)

4:00 – 5:00pm: Isolation of DNA and RNA from cell lines

Day 4: 9th January 2020 (Thursday) Workshop on PCR Techniques

Venue: CEMR Laboratory, JSS Medical College, JSS AHER

Session-II:

9:00 to 9:30am: Lecture #3: Fundamentals and applications of PCR - Dr. Rajeshkumar

9:30 to 10:00am: Lecture #4: Gene knockdown using siRNA - Dr. Prasannakumar

Workshop

9:45 to 11:00am: Isolation of RNA from knockdown cells

11:00 to 11:15am: Tea & Coffee Break

11:15 to 1:00pm: Preparation of the bleach gel and RNA quality analysis, c-DNA synthesis

1:00 to 1:30pm: Lunch

2:00 to 4:00pm: Analysis of the expression of genes at mRNA level using qPCR (SYBR method)

4:00 to 4:30pm: Conclusion of the session

Day 5: 10th January 2020 (Friday) Workshop on Karyotyping

Venue: Clinical Genetics Laboratory, JSS Hospital, JSS AHER

Session-II:

9:00 to 9:30am: Lecture #5: Use of karyotyping in diagnosing chromosomal abnormalities - Dr. Akila

Prashant

9:30 to 10:00am: Lecture #6: Karyotyping Applications in Disease Diagnosis - Dr. D. Devanand

Workshop

9:45 to 11:00am: Karyotyping

11:00 to 11:15am: Tea & Coffee Break

11:15 to 1:00pm: Analysis of the Karyotyping data

1:00 to 1:30pm: Lunch

2:00 to 4:00pm: FISH Technology - Demonstration

4:00 to 4:30pm: Valedictory





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Conference On

Clinical, Epidemiological and Experimental Approaches to Assess Air Pollution Related Chronic Health Effects (CEEARCH)

Workshop On

Methods in Molecular Biology, Cytogenetics and Cell Culture

January 6th-10th (Monday-Friday), 2020

REGISTRATION FORM

(Scan and send. Photocopies of the registration form are also accepted)

Designation:		
Institution:		
Address:		
Mobile No.:		
Email ID:		
Registration for (a) Conference (b) Workshop (c) Conference	o (8 th Jan to 10 th Jan 2020)	
Registration Fee Payment D	etails:	
Demand Draft No:	Date:	Bank Name:
Transaction Reference No:		
(RTGS/NEFT only)		
		(Signature)

Payment Details:

Name:

- 1. Demand Draft should be drawn in favor of "JSS Medical College Seminar Account", Payable at State Bank of India, S. S. Nagar, Mysuru, Karnataka.
- 2. RTGS/NEFT payments should be made to:

Name of the account: JSS Medical College Seminar Account

Account number: 64143204788, Bank: State Bank of India, Branch: S. S. Nagar branch

IFSC code: SBIN0040547, Mysuru.

Note:

- First-come-first register basis for workshop (Limited seats 20 only)
- Abstracts: Please send your abstracts (in the format enclosed) for poster presentation before 21st December after registration. Selected abstracts for poster presentation will be intimated a week prior to the conference date

Send the scanned copy of registration form to

Dr. Asha Srinivasan, Assistant Professor,

Division of Nanoscience and Technology,

Faculty of Life Sciences, JSS AHER

Phone: 9731981370;

E-mail: <u>asha.srinivasan@jssuni.edu.in</u>

Carbon copy to

Mr. Pushkal, S.R., CSIR-JRF,

CEMR Laboratory,

Department of Biochemistry,

JSS Medical College, JSS AHER.

Phone: 9900864233;

E-mail: pushkalbiochemystery@gmail.com,

• For any additional details, please contact, Dr. Asha Srinivasan or Mr. Pushkal. S.R.

^{*} The registration fee includes breakfast and lunch, but doesn't include accommodation/transportation expenses. A conference and / or workshop kit will be provided for the registered participants. Registration is mandatory for submitting the abstract

ABSTRACT FORMAT

Abstract (250 words excluding title, authors and author affiliations, Font to be used in the abstract: Arial)

- Title (Font size: 14 bold)
- Authors and affiliations (Font size: 12, Underline and bold the presenting author)
- Corresponding author (Font size: 12. Provide affiliation and contact details)
- Background
- Materials and Methods
- Results and Discussion
- Conclusions
- Study Limitations and Future Directions