International Conference of Forensic Odontology & Child Abuse

In Association with IAOMP

31st July and 1st August, 2019

Organized by: Forensic Odontology Unit, Department of Oral Pathology & Microbiology, Faculty of Dental Sciences, King George's Medical University, Lucknow

Venue: Dept. of Oral Pathology & Microbiology, King George's Medical University, Lucknow-226003

Pixel-scopic analysis

A Workshop on Morphometric Analysis in Research.

1. Registration Fee: INR 2000
2. Seats : limited seats 40
3. 31st July 2019 and 1st August, One day Workshop on each day

About the speakers

Dr. Amol Gadbail is currently working as an assistant professor at Indira Gandhi Medical College and hospital, Nagpur, Maharastra. He has a teaching experience of 12 years and has to his credit, several national and international publications, with expertise in frozen section reporting and Immunohistochemistry. His research interests include odontogenic cysts and tumors, premalignant lesions and conditions (Oral Submucous fibrosis and Leukoplakia), oral malignancies and salivary glands disorders. He has conducted several training programmes on medical image analysis in past few years.

Dr. Satyajit Tekade, with a teaching experience of more than 12 years, is the professor and HOD at the Department of Oral and Maxillofacial Pathology, Modern Dental College and research centre, Indore. He has to his credit, more than 35 national and international publications. He has a vast experience and an extraordinary expertise in handling image analysis softwares. His areas of interest are OSMF, Oncology and orthodontics.

Apoorva Singh, has completed has M.S. Electrical Engineering from George Washington University USA and currently a PhD scholar in the field of Bioengineering from the University of Pennsylvania.

Topic Covered

a) Oral and General Pathology

1. Cytomorphometry
2. Histomorphometry
3. Specialized microscopic image analysis
4. Immunohistochemistry

5. PET scans

- Tumor regions drawn on scans by collaborating radiation oncologist (Eclipse Software)
- Algorithm developed to extract tumor from scans
- Tumor regions studied in 2D & 3D in MATLAB
- Texture information used to predict tumor recurrence
- Genetic info+ texture info gives better results

b) Forensic Odontology

1. Radiographic measurements for age estimation in different stages of dentition.
2. Bitemark analysis
3. Cheiloscopy

c) Orthodontics

1. Cephalometric analysis

d) Endodontics

1. Shrinkage of restorative material
2. To measure efficacy of root canal sealer

e) Prosthodontics

1. Adaptation
2. Casting distortion of materials
3. Shrinkage materials

f) Periodontics / Oral Surgery

1. Evaluation osseointegration in implants
2. To measure percentage of conversion of bone graft material in to bone

About the Workshop

Dr. Amol Gadbail: Introductory lecture of Morphometric Analysis- 30 minutes

Apoorva Singh: Tumor texture analysis of pre-treatment PET scans using ECLIPSE and MATLAB software – 20 minutes

Dr. Satyajit Tekade and Dr. Amol Gadbail:- Hands on workshop on Morphometric Analysis: - 3.00 hrs

Dr. Amol Gadbail:- Tips for writing efficient and quality scientific papers: - 45 minutes

Requirements

All participants should have Pendrive and Laptops

Workshop on morphometric analysis in dental research.

The workshop will focus on use of morphometric software in forensic odontology. This will include its use in radiographic measurements for age estimation in different stages of dentition. The morphometric software comes to help in studies on bitemark analysis and cheloiscopy also. The workshop will also cover some aspects of 3-D volumetric measurements of pulp done in some studies. Other than this the workshop will cover use of morphometric analysis software in oral pathology, prosthodontics and endodontics, orthodontics, etc.

The workshop will focus on use of Histomorphometry and Digital Slide Analysis. The quantitative measurement and characterization of microscopical images using a computer; manual or automated digital image analysis typically involves measurements and comparisons of selected geometric areas, perimeters, length, angle of orientation, form factors, center of gravity coordinates, as well as image enhancement. Cytomorphometry: The quantitative measurement of cellular features, inputting the data points into a computer via a graphic interface, with the intent of standardizing image analysis.

SCHEDULE

09:00-09:30	BREAKFAST/REGISTRATION
09:30-10:00	INAUGRATION
10:00-10:30	DR. ANMOL GADBAIL: INTRODUCTION TO MORPHOMETRIC ANALYSIS
10:30-10:50	APOORVA SINGH: Tumor texture analysis of pre-treatment PET scans
10:50-01:50	HANDS ON WORKSHOP ONMORPHOMETRIC ANALYSIS
01:50-02:20	LUNCH
02:20-02:50	DR. SATYAJIT TEKADE: MORPHOMETRY-DIAGNOSTIC AND PROGNOSTIC ROLE IN ORAL LESION
02:50-03:50	DR. ANMOL GADBAIL: WRITING EFFICIENT AND QUALITY SCIENTIFIC PAPERS
03:50-04:00	VOTE OF THANKS

Registration forms and brochure can be downloaded from IAOMP website in upcoming event section : https://iaomp.in/upcoming-events
www.kgmu.org
www.janjagriti.in