International Association for Dental Research
Mineralized Tissue Group Report 2009 – 2010

1. Current Officers

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Term Expires</th>
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<tbody>
<tr>
<td>President</td>
<td>John Bartlett</td>
<td>July 2010</td>
</tr>
<tr>
<td>President-elect</td>
<td>Jan Hu</td>
<td>July 2010</td>
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<tr>
<td>Vice-president</td>
<td>Jian Feng</td>
<td>July 2010</td>
</tr>
<tr>
<td>Secretary</td>
<td>Chunlin Qin</td>
<td>July 2012</td>
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<tr>
<td>Treasurer</td>
<td>Chunlin Qin</td>
<td>July 2012</td>
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<tr>
<td>Immediate Past President</td>
<td>Graeme K. Hunter</td>
<td>July 2010</td>
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<tr>
<td>Councilor</td>
<td>Barbara D. Boyan</td>
<td>July 2011</td>
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2. Financial Report

- Amount of dues per member: $20.00
- Fund balance as of last annual report: $9510.68
- Total income: $3776.00
- Total expenditure: $4327.47
- Current fund balance (as of 10/28/09): $8,959.21


- Full members: 220
- Retired members: 2
- Student members: 191

4. Prior and Planned Activities for 2009 – 2010

- AADR/IADR meeting in Miami, FL:
  - Abstracts reviewed: 167 - Two abstracts were selected for Hatton award competition, therefore, only 165 remained in the MTG programs. Five abstracts were rejected for scientific reasons.
  - Oral Presentations: 42
  - Poster presentations: 118
  - Keynote address: Keynote Session - Periodontal Research/Mineralized Tissue/Craniofacial Biology
    - Keynote speaker from MTG: Dr. Renni Franceschi; title of Dr. Franceschi’s keynote speech: Transcriptional Control of Bone Formation
  - Symposium I Title: Novel Concepts on the Functions of Dental and Bone Matrix Proteins
    - Chair: Petros Papagerakis, DDS, PhD
    - Speakers:
      1) James Simmmer, University of Michigan, Ann Arbor; Enamel Extracellular Matrix Proteins.
      2) Mark McKee, McGill University, Montreal, QC, Canada; Regulation of biomineralization by bone and dentin proteins.
      3) Gerald Karsenty, Columbia University, New York; Reciprocal regulation of bone and energy metabolism by osteocalcin.
4) Jian Feng, Department of Biomedical Sciences, Baylor College of Dentistry, Texas A&M University System Health Science Center, Dallas, TX; Novel endocrine roles of DMP1 in phosphate homeostasis.

Symposium 2 Title: Proteases in Tooth and Oral-facial Development
Chair: John Bartlett, PhD
Speakers:
1) Christopher Overall, University of British Columbia, Vancouver; Metadegradomics: Protease proteomics of MMPs in vivo reveals multiple roles in homeostasis signaling
2) Suneel Apte, Cleveland Clinic Foundation, Cleveland, OH; ADAMTS proteases in craniofacial development
3) John Bartlett, Forsyth Institute, Boston, MA; Proteases in Dentin and Enamel Development

Symposium 3 Title: Bionanotechnology-enabled Platforms for the Engineering of Craniofacial Tissues (organized jointly with the Pulp Biology & Regeneration Group)
Chair: Rena D'Souza DDS, PhD
Speakers:
1) Barbara Boyan, Georgia Institute of Technology, Atlanta, GA; Nanotechnology & Nanomedicine: What Are They & How Can We Use Them Effectively to Improve Oral Health.
2) Antonios Mikos, Rice University, Houston, TX; Nanobiomaterials for Tissue Engineering: New Tools and Logics.
3) Jeffrey Hartgerink, Rice University, Houston, TX; Self-Assesmbling Peptide Hydrogels for Dentin Regeneration.
4) John Jansen, Radboud University, Nijmegen Medical Center, Department of Periodontology and Biomaterials, Nijmegen, Netherlands; Nanofunctionalization of Implant Surfaces.

Business meeting: held on Thursday, April 2nd at 5:00-6:00 PM
Reception: held (jointly with Pulp Biology/Regeneration Group and Craniofacial Biology Group) on Thursday, April 2nd at 6:00-8:00 PM

Planned Activities for 2009-2010:

AADR meeting in Washington DC (March 3-6, 2010):
- Symposium Title: Phosphate Homeostasis
  Speakers: 1) Dr. Beate Lanske <beate_lanske@hsdm.harvard.edu>, Harvard University, Boston, MA - Abstract id# 127133: FGF23 and its role in mineralization.
  2) Dr. Klotho M. Kuro-o <Makoto.Kuro-o@UTSouthwestern.edu> The University of Texas Southwestern Medical Center at Dallas, Dallas, TX Abstract id# 127134: Regulation of phosphate metabolism.
  3) Dr. Jian Feng <jfeng@bcd.tamhsc.edu>, Department of Biomedical Sciences, Baylor College of Dentistry, Texas A&M University System Health Science Center, Dallas, TX Abstract id# 127132: Regulation of Pi Homeostasis by DMP1 and PHEX.
- Lunch and Learning: Table #15: Physical Methods of Mineralized Tissue Characterization.
  Speaker: Dr. Elia Beniash (University of Pittsburgh, Pa., USA)
- Business meeting (March 4, 2010)
- Reception (March 4, 2009)

IADR meeting in Barcelona, Spain (July 14-17, 2010):
- Symposium Title: Genetic Regulation of Odontogenesis
Speakers: 1) Dr. Irma Thesleff, University of Helsinki, Helsinki, Finland
Abstract id# 128119 Gene Regulation of Odontogenesis.
2) Dr. Rena. D'Souza, Baylor College of Dentistry, Dallas, TX
Abstract id# 128120 Genetic Etiologies of Tooth Agenesis.
3) Dr. Xiu-Ping Wang, Brigham and Women's Hospital, Boston, MA
Abstract id# 128121: Wnt, Apc, and Supernumerary Teeth.

- Lunch and Learning: Table #23: The Various Techniques Used to Genetically Engineer Mice.
  Speaker: Dr. Jian Feng, Baylor College of Dentistry, Texas A&M University System Health Science Center, Dallas, USA.

- Business meeting (July 15, 2010)
- Reception (July 15, 2010; jointly with Pulp Biology & Regeneration Group)