Next Informational Forum on the University & College Financial Situation: March 11, 2009, Noon, Galagans A & B

As discussed at the February 18 forum, the College of Dentistry faculty and staff will continue to receive updates on the financial situation and have an opportunity for questions and answers. The next informational forum on the University of Iowa and College of Dentistry financial situation will be held Wednesday, March 11, 2009, from noon-1:00 pm, in Galagans A&B. Attendance is voluntary.

The University has created a Web site at http://budget.uiowa.edu. You will find the latest information about the university’s budget, helpful budget links and resources, and an opportunity to submit your own cost-saving suggestions.

New Collaborative Online Medical Resource Available: Medpedia

A new collaborative online medical resource is now available: Medpedia. Medpedia is applying a new collaborative model to the collection, sharing and advancement of medical knowledge that, over time, will produce the world’s most comprehensive resource. Potential users include physicians, dentists, consumers, researchers, medical/dental associations, and the general public.

As Medpedia grows over the next few years, it will become a repository of up-to-date unbiased medical information, contributed and maintained by health experts around the world and freely available to anyone. Only physicians and Ph.D.s will be allowed to edit the articles on Medpedia after they create an account and are approved as an editor.

Medpedia is being created in association with Harvard Medical School, Stanford School of Medicine, Berkeley School of Public Health, University of Michigan Medical School, and other leading global health organizations.

To access Medpedia, go to www.medpedia.com.

Noon Brown Bag Discussion of Anne Fadiman’s The Spirit Catches You and You Fall Down, March 9, 2009, Noon-1 pm, DCR

Anne Fadiman, author of The Spirit Catches You and You Fall Down, will be giving a presentation entitled “How Culture Complicates Medicine” on March 9, 2009, at 7:30 pm, in W10 John Pappajohn Business Building (Buchanan Auditorium). A reception will follow in the Anderson Galleria (W101 PBB).

In conjunction with her presentation, Dr. Michelle McQuistan, Preventive & Community Dentistry, would like to establish a brown bag discussion group from noon-1 pm on March 9, 2009, in the Dean’s Conference Room (DSB), to discuss Ms. Fadiman’s book. If you are interested, please e-mail Dr. McQuistan at michelle-mcquistan@uiowa.edu. All faculty, staff and students are welcome to attend.

For additional information about Ms. Fadiman’s book, go to page 6 of this issue (online only).

Filling Station Announcement

During spring break (March 16-20), the Filling Station will close at 2:00.
### Monday
**Sloppy Joe Sandwich & Chips** $3.75  
Soup du Jour $2.25 / $3.25  
Salad Bar, Deli, Pizza, Sushi & Paninis

### Tuesday
**BBQ Chicken Sandwich & Chips** $3.95  
Soup du Jour $2.25 / $3.25  
Salad Bar, Deli, Pizza, Sushi & Paninis

### Wednesday
**BBQ Pork Sandwich & Chips** $3.95  
Soup du Jour $2.25 / $3.25  
Salad Bar, Deli, Pizza, Sushi & Paninis

### Thursday
**TACO BAR!!!**  
Cheddar Bacon Chicken Sandwich & Chips $4.95  
Soup du Jour $2.25 / $3.25  
Salad Bar, Deli, Pizza, Sushi & Paninis

### Friday
**Macaroni & Cheese** $3.50  
**Mini Beef Steak Burger** $1.25  
Soup du Jour $2.25 / $3.25  
Salad Bar, Deli, Pizza, Sushi & Paninis

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**Local Research Day, continued from page 1**

### ORAL SESSION 1 - Galagan A
9:15-11:15am

- **Max Smith Predoctoral Competition**
- **Pre-doctoral IA Society of Periodontology Competition**

1. **Pingel, LC**, RN Srikantha, M Belanger, A Progulske-Fox, Z Kurago, and KA Brogden  
   HBD3 INHIBITS BINDING OF *Porphyromonas gingivalis* HEMAGGLUTININ B (rHagB) TO HUMAN KERATINOCTYES AND DENDRITIC CELLS.

2. **Hoopes, J**, DA Sebold, JK Boehrs, RS Saharians, JE Laffoon, and GB Schneider  
   ANALYSIS OF BMP2 AND VEGF SIGNAL EXPRESSION IN 3-D OSTEOBLAST CULTURES.

3. **Dietrich, DE**, M Belanger, A Progulske-Fox, Z Kurago, and KA Brogden  
   HBD3 INHIBITS *Porphyromonas gingivalis* HEMAGGLUTININ B BINDING TO DENDRITIC CELLS.

4. **Cruz-Orcutt, N**, and JCD Houtman  
   TLR-2 ACTIVATION SYNERGISTICALLY INCREASES TCR-MEDIATED CYTOKINE PRODUCTION AND ERK1/ERK2 PHOSPHORYLATION.

5. **Ackermann, A**, KG Kohlgraf, R Srikantha, M Belanger, A Progulske-Fox, Z Kurago, and KA Brogden  
   RECEPTORS FOR *P. gingivalis* HEMAGGLUTININ B ON HUMAN ERYTHROCYTES, KERATINOCTYES, DENDRITIC CELLS.

6. **Sheffield, E**, S Anamali, and J Hellstein  
   ORAL CDx BRUSH BIOPSY: ANALYSIS OF A SERIES OF SURGICAL PATHOLOGY SPECIMENS SUBMITTED BASED ON TRANSEPITHELIAL CYTOLOGY TESTS AND THEIR RESULTS.

7. **Drescher, M**, T Srikantha, K Brogden, and S Joly  
   *Peptostreptococcus micros* SWITCHING IMPACTS ORAL KERATINOCYTE RESPONSES AND ß-DEFENSIN ACTIVITY.

8. **Bratt, C**, DV Dawson, D Drake, KA Brogden, and P Wertz  
   ANTIMICROBIAL ACTIVITY OF LIPIDS.

### ORAL SESSION 2 - Galagan B
9:15-10:00am

- **Max Smith Graduate Competition**
- **Dental Specialty Award Competition**  
  (OP-Operative; OMP-Oral and Maxillofacial Pathology; PED-Pediatric)

   EFFECT OF ETHANOL-WET BONDING AND CHLORHEXIDINE ON HYBRID LAYER QUALITY.

10. **Phattaratratip, E**, BL Olson, DV Gadre, KA Brogden, DR Drake, B Broffitt, SM Levy, F Qian, and JA Banas  
    SUSCEPTIBILITY OF *Streptococcus mutans* CLINICAL ISOLATES TO HOST ANTIMICROBIAL PEPTIDES.

11. **Chi, D**, E Momany, M Jones, and P Damiano  
    TIME TO FIRST DENTAL VISIT FOR MEDICAID-ENROLLED CHILDREN IDENTIFIED WITH MENTAL RETARDATION AND/OR DEVELOPMENTAL DISABILITY.
ORAL SESSION 3 - Galagan C

Max Smith Postdoctoral Competition
†Postdoctoral IA Society of Periodontology Competition
¶Dental Specialty Award Competition (OMR=Oral and Maxillofacial Radiology; PROS=Prosthodontics)

12. †PROSSitbon, Y, GB Schneider, DV Dawson, DA Seabold, GK Johnson, CM Stanford

In vitro EPITHELIAL CELL ADHESION TO ABUTMENT SURFACE CANDIDATES.

13. †Morarend Q, M Spector, D Holmes, S Clark, and D Dawson

THE USE OF RESPeRATE TO LOWER DENTAL ANXIETY.

14. †OMR Ganguly, R, A Ruprecht, S Vincent, J Hellstein, S Timmons, and F Qian

GEOMETRIC ACCURACY OF GALILEO’S CONE BEAM CT.

15. †PROSCashman, P, Q Fang, J Clancy, G Schneider, C Stanford, and R Schneider

ANALYSIS OF POST-FATIGUE REVERSE-TORQUE VALUES AT THE ABUTMENT/IMPLANT INTERFACE FOR A UNITARIAN ABUTMENT DESIGN.

16. †Carisile, MD, RN Srikantha, and KA Brogden

DEGRADATION OF HUMAN α- AND β-DEFENSINS BY CULTURE SUPERNATANTS OF Porphyromonas gingivalis STRAIN 381.

17. †Recker, BM, A Fakhry, G Johnson, A Ruprecht, and M Pizzimenti

THE ZYGOMATIC BONE AS A DONOR SITE FOR AUTOGENOUS BONE HARVESTING.

18. †Kohler, KG, KK Burnell, A Ackermann, RN Srikantha, GK Johnson, SA Joly, J Bartlett, L Gakhar, PB McCray, Jr, JM Guthmiller, and KA Brogden

QUANTITATION OF SPLUNC IN SALIVA BY AN xMAP PARTICLE-BASED IMMUNOASSAY.


ANALYSIS OF PUTATIVE ENHANCER ELEMENTS AROUND FoxE1 UTILIZING THE ZEBRAFISH

4TH Floor – DOWS INSTITUTE

§Procter & Gamble Poster Competition
#ADA Pre-doctoral Table Clinic Competition
†Pre-doctoral IA Society of Periodontology Competition

1. §§Swenson, KE, NE Holton, RG Franciscus, SD Marshall, MA Nieves, and T Southard

FACIAL SUTURE PLATING ALTERS MAXILLARY SINUS IN Sus scrofa.

2. §§Murrell, SE, TA Marshall, P Moynihan, F Qian, MM Hogan, J Wefel

PROTECTION AGAINST DENTAL EROSION AFFORDED BY MILK EXPOSURE.

3. §§Schiff, MJ, and C Stanford

DRY VERSUS WET PREPARATION OF ZIRCONIA IMPLANT ABUTMENT SURFACES.

4. §§Imoehl, SR, MA Mansilla, ML Marazita, and JC Murray

ASSOCIATION BETWEEN FAF1 AND NON-SYNDROMIC CLEFT PALATE.

5. §§Haddad, B, T Morgan, G Schneider, D Seabold, and C Stanford

IMMUNOHISTOCHEMISTRY OF THE HEALING IMPLANT INTERFACE.

6. §§Poss, J, TA Marshall, F Qian, C Skotowski, and K Weber-Gasparoni

DIETARY HABITS AND CARIES OUTCOMES OF VIDEO GAMING TEENAGERS: A PILOT STUDY.

7. §§McBride, W, B Olson, J Warren, K Kramer, D Dawson, and D Drake

NON-SM ACID STREPTOCOCCI: INCIPIENT CARIES IN CHILDREN.

8. §§Nensel, M, S Armstrong, A Sapata, CT Sato, DH Pashley, F Tay, and S Geraldeli

In vivo HYBRID LAYER NANOLEAKAGE PATTERNS AFTER OXALATE DENTIN PRE-TREATMENT.

9. §§Smith, M, JA Flanigan, M Cunningham-Ford, S Guzman-Armstrong, and TA Marshall

EFFECTS OF METHAMPHETAMINE ON ORAL HYGIENE AND S. mutans LEVELS: A PILOT STUDY.

(Local Research Day, continued on page 4)
10. §Johnson, MJ, J Laffoon, JD Harless, F Qian, KA Brogden, and TA Marshall
   COLONIZATION OF *Streptococcus mutans* ON CARBONATED BEVERAGE ERODED MOLAR ENAMEL.

11. §Gibbs, M, S Armstrong, F Qian, F Tay, D Pashley, and S Geraldini
   MICROTONSILEN BOND STRENGTH EVALUATION OF HYDROPHOBIC DENTIN-BONDS CREATED USING ETHANOL GEL.

12. §Reynolds, J, A Villhauer, B Olson, and D Drake
   ANTIMICROBIAL SUSCEPTIBILITY PROFILES OF *Streptococcus mutans* GENOTYPES.

13. §Hochstrasser, JS, RN Staley and F Qian
   WEAR OF PRO SEAL™ AFTER SIMULATED TOOTH-BRUSH ABRASION.

14. §Gratz, KJ, MR McQuistan, F Qian, and RA Kuthy
   DENTAL STUDENTS’ WILLINGNESS TO TREAT UNDERSERVED POPULATIONS.

15. §§Flanigan, J, M Smith, M Cunningham-Ford, S Guzman-Armstrong, and TA Marshall
   EFFECTS OF METHAMPHETAMINE ON SALIVARY CHARACTERISTICS: A PILOT STUDY.

16. §Dunn, W, J Kolker, J Casko, and F Qian
   SMILE ATTRACTIVENESS: RELATED TO BUCCAL CORRIDOR, TOOTH SHAPE, GINGIVAL DISPLAY.

17. §§Choi, D, J Banas, D Drake, K Kramer, D Dawson, DW McNeil, RJ Crout, RJ Weyant, and M Marazita
   *Streptococcus mutans* GENOTYPES: BIOFILM FORMATION AND ACIDOGENICITY.

18. §§Huber, C, X Xiao, J Warren, M Willing, D Drake, T Marshall, and D Dawson
   CANDIDATE GENE ASSOCIATIONS WITH CARIES IN THE PRIMARY DENTITION.

19. §§Bower, S, A Fakhry, and F Qian
   ACCURACY OF LATERAL CEHALOGRAMS IN MEASURING BONE HEIGHT FOR PALATAL IMPLANT PLACEMENT.

20. §§Mohamad, A, MR McQuistan, CL Straub-Morarend, and SR Dobi
   ORAL HEALTH LITERACY: PATIENTS’ PERCEPTIONS REGARDING THE CAUSES OF THEIR ORAL HEALTH PROBLEMS.

21. §§Greenwald, LN, JJ Warren, JS Wefel, MM Hogan, and SM Levy
   REMINERALIZATION OF EXPLORER PROBED ROOT SURFACE LESIONS *in vitro*.

22. †§§Huston, KM, and A Fakhry
   INTER-ROOT COMPUTED TOMOGRAPHY MEASUREMENTS FOR ACHIEVING OPTIMAL INTER-IMPLANT GINGIVAL ESTHETICS.

23. §§Lenius, JJ, RN Staley, F Qian, M McQuistan, T Marshall, and J Wefel
   FACTORS ASSOCIATED WITH WHITE SPOT LESION OCCURRENCE IN ORTHODONTIC PATIENTS.

**N212 Oral B CLASSROOM**

# ADA Post-doctoral Table Clinic Competition
† Postdoctoral IA Society of Periodontology Competition
¶ Dental Specialty Award Competition (OMR-Oral and Maxillofacial Radiology; OP-Operative)
* Endodontic Michael Fuller Award Competition

24. #Zhu, M, D Ajdic, Y Liu, D Lynch, J Merritt, and JA Banas
   THE ROLE OF THE *Streptococcus mutans irvA* GENE IN GBPC-INDEPENDENT DEXTRAN-DEPENDENT AGGREGATION AND BIOFILM FORMATION.

25. #Drake, T, WT Johnson, A Ruprecht, and R Walton
   *Ex vivo* RADIOGRAPHIC ASSESSMENT AND SIZE DETERMINATION OF SIMULATED EXTERNAL ROOT RESORPTIONS OF MAXILLARY ANTERIOR TEETH.

26. †OMR# Katkar, R, M Motwani, and S Degwekar
   IMAGING THE PERIODONTAL BONE: CONVENTIONAL VS. DIGITAL RADIOGRAPHY.

27. #Potter, K, M McQuistan, A Williamson, P Damiano, and F Qian
   SHOULD ENDODONTISTS PLACE DENTAL IMPLANTS? A SURVEY OF ENDODONTISTS.

(Local Research Day, continued on page 5)
28. #Lynch, D, J Banas, and S Michalek
CONTRIBUTION OF GLUCAN BINDING PROTEIN MUTANT DERIVED ALTERATIONS OF BIOFILM ARCHITECTURE TO Streptococcus mutans VIRULENCE.

29. #OP#Attathom, T, S Geraldeli, M Hernandez, J Kolker, F Qian, and S Armstrong
EFFECT OF ETHANOL-WET BONDING TO CARIES-AFFECTED DENTIN.

30. #OP#Amer, R, G Denehy, DS Cobb, D Dawson, M Cunningham-Ford, and C Begeron
THE DESIGN, PROGRAMMING AND EVALUATION OF A COMPUTERIZED INTERACTIVE DENTAL EDUCATION MODULE TO TEACH DENTAL STUDENTS THE 3-STEP ETCH AND RINSE BONDING SYSTEM.

31. #Meder-Cowherd, L, AE Williamson, WT Johnson, D Vasilescu, and F Qian
APICAL MORPHOLOGY OF THE PALATAL ROOTS OF MAXILLARY MOLARS USING MICRO-COMPUTERIZED TOMOGRAPHY.

32. #OP#Mendieta, CE, JL Kolker, JD Harless, MM Hogan, and DV Dawson
ASSOCIATION BETWEEN ICDAS ROOT CARIES CLASSIFICATION AND THEIR HISTOLOGICAL SECTIONS.

33. #Gopalakrishna, A, S Geraldeli, S Armstrong, D Cobb, and F Qian
EFFECT OF DIFFERENT ACID ETCHING TIMES ON MICROTENSILE BOND STRENGTH OF VITAL DENTIN.

4th Floor LINK
Non-Competing Poster Presentations

34. Villhauer, A, B Olson, and D Drake
BACTERICIDAL ACTIVITY OF STABILIZED CHLORINE DIOXIDE AGAINST POLYMICROBIAL BIOFILMS.

35. Qian, F, MT Stecher, K Weber-Gasparoni, and J Walker
COMPARISONS BETWEEN IOWA GENERAL DENTISTS AND SPECIALISTS REGARDING MOUTHGUARD USE.

36. Olson, B, M Delboni, and D Drake
DIVERSITY OF Enterococcus faecalis GENOTYPES ASSOCIATED WITH ENDODONTIC FAILURE.

37. Geraldeli, S, MM Hogan, L Tjaderhane, DH Pashley, TA Morgan, and KA Brogden
DETECTION OF INFLAMMATORY MEDIATORS IN COLLECTED DENTINAL FLUID.

38. Yamagawa, J, H Akizumi, M Oguri, and H Kazama
GLOSS CHANGES OF RESIN COMPOSITES AFTER BRUSHING WITH PROPHYLAXIS PASTE.

39. Gadre, DV, B Olson, D Drake, RJ Weyant, DW McNeil, R Crout, J Thomas, and M Marazita
DIVERSITY OF Streptococcus mutans GENOTYPES FROM LOWER SOCIOECONOMIC APPALACHIAN FAMILIES.

GENDER COMPARISONS OF LONGITUDINAL GROWTH OF MAXILLARY FIRST MOLAR ROOTS.

FACTORS ASSOCIATED WITH CARIES IN LOW SES PRE-SCHOOL CHILDREN.

42. Bloomberg, S, SA Bullard, C Fontoura, R Jiang, and AC Lidral
EMBRYONIC EXPRESSION OF Wnt9b, A GENE FOR CLEFT LIP AND PALATE
On October 24, 1982, three-month-old Lia Lee was carried into the emergency room of the county hospital in Merced, California. Lia's parents, Hmong refugees from the hill country of Laos, spoke no English; the hospital staff spoke no Hmong. On a later visit, Lia's doctors would determine that she was suffering from a severe case of epilepsy, a misfiring of the brain's neurons. Her parents, however, believed that her seizures were caused by the flight of her soul from her body and called her condition by its Hmong name: qaug dab peg ("the spirit catches you and you fall down").

This essential misunderstanding, leading to and surrounded by a host of smaller confusions, ultimately resulted in tragedy for Lia. In her stunning work of cross-cultural reportage, Anne Fadiman presents Lia's story from both perspectives. We learn how devotedly Lia's parents, Nao Kao Lee and Foua Yang, cared for their daughter, carrying her everywhere, arranging animal sacrifices for her, and making traditional remedies from herbs grown in the parking lot behind their apartment building. We also see the case through the eyes of Lia's doctors, the husband-and-wife team of Neil Ernst and Peggy Philp, who went to great efforts to fine-tune Lia's treatment and spent many sleepless nights pondering how to give her the best care possible.

And yet doctors and parents looked on helplessly as Lia's condition worsened, each blaming the other. The doctors were angry because the parents failed to give Lia her prescribed medications in the proper doses; the parents were angry because the medications had side effects. In an attempt to understand this sad impasse, Fadiman casts her net ever wider, examining Western medical culture and the history and spiritual traditions of the Hmong. The Hmong, a legendarily fierce and invincible tribe, were driven from their homes after the U.S.-sponsored "Quiet War" in Laos, during which many had been recruited to fight by the CIA. More than 100,000 ended up in America, but, especially in the early years, retained strong Hmong cultural values: family and community were prized; coercion was hated. As Fadiman discovers, Western physicians, trained to practice a technical art bound by strict rules and traditions, could be equally uncompromising.

It is Fadiman's signal achievement that she manages to empathize with those on both sides, communicating their intentions with compassion and humanity and carefully weighing the consequences of their actions. Her descriptions of everything from complicated medical procedures and emergency room protocol to Hmong healing ceremonies and refugee camp life in Thailand are sharply focused and compelling; her portraits of Lia's dedicated and stubborn doctors and her loving and stubborn parents are rich and nuanced. Through her telling of the story of a single Hmong child, she communicates the essence of two very different worldviews, and holds out the hope that they might one day be reconciled.