

Sunday, May 5:

3:00 pm Registration Desk Open

6:00-7:00 pm Welcome Reception

7:00-9:00 pm Welcome Dinner and Opening Session

Monday, May 6:

7:00 - 8:15 am - Buffet Breakfast on La Terraza

Plenary Session I: Biochemistry Across Undergraduate Professional Curricula

(Co-Chairs: M. Wimmer, WVU Health Sciences Center; E. Niederhoffer, SIU School of Medicine)

8:30 - 9:30 am - Missing Pieces: Solving the Basic Science Puzzle through "Integration"
N. Woods, Wilson Centre, Toronto, ON

9:30 - 10:00 am - Vanderbilt University School of Medicine Curriculum 2.0: Integrating
Basic and Clinical Sciences Across the Four Year Curriculum
N. Osheroff, Vanderbilt University School of Medicine

10:00 - 10:30 am - Break

10:30 - 11:30 am - Role and Utilization of Basic Sciences on USMLE Steps 2 and 3
S. Haist, VP, Test Development Services, NBME

11:30 - 12:00 pm - Discussion

12:00 - 1:00pm - Lunch on La Terraza

Plenary Session II: Educational Scholarship

(Chair: R. Sabina, Oakland University William Beaumont School of Medicine)

1:00 - 1:45 pm - Mining the Educational Literature
C. Slaughter, GHSU-UGA Medical Partnership, Athens GA

1:45 - 2:30 pm - MedEdPORTAL: Advancing Learning Through Educational Scholarship
S. Hunt, MedEdPortal Editorial Staff

2:30 - 3:00 pm - Break

Breakout Session I

3:00 - 4:30 pm

A. Just-in-Time Teaching (JITT) and Peer Instruction (PI) in Medical Biochemistry
D. Franklin, Tulane University School of Medicine

3:00 - 4:30 pm

B. The Ins and Outs of Team Based Learning (TBL) Pedagogy in Teaching Cellular and Molecular Biology/Biochemistry in a Doctor of Pharmacy Program
D. Pearson, X. Feng, R. Vinall, Cal-Northstate University College of Medicine

5:45 - 6:45 pm - Dinner on La Terraza

7:00 - 8:30 PM - Optional Scholarship Workshop (otherwise, evening free)

MedEdPORTAL Workshop: Preparing Materials for Submission

S. Hunt, MedEdPortal Editorial Staff; R. Sabina, Oakland University William Beaumont School of Medicine; MedEdPortal Associate Editor for Biochemistry & Genetics

Tuesday May 07

7:00 - 8:00 am - Breakfast on La Terraza

Plenary Session III: Educational Methods

(Co-Chairs: T. Fulton, UCSF School of Medicine, E. Niederhoffer, SIU School of Medicine)

8:00 - 9:00 am - Biochemistry in the Flipped Classroom

T. Cowen, J. Theriot, Stanford University School of Medicine

9:00 - 9:30 am - Importance of Biochemistry in the Education of Future Dentists

M. Levine, University of Oklahoma Health Sciences Center

9:30-10:00 Break

10:00 - 11:00 am - PBL – Why all the effort

D. Klamen, E. Niederhoffer, SIU School of Medicine

11:00 - 12:00 pm - Clinical correlates to Illustrate Principles in Medical Biochemistry

M. Glucksman, RFUMS/Chicago Medical School / Panel

12:00 - 1:00 pm - Lunch on La Terraza (OPTIONAL WORKING LUNCH: Revisiting, Refining, and Linking Biochemistry Objectives and Competencies, T. Fulton, UCSF School of Medicine; T. Hogg, Texas Tech University Health Sciences Center; R. Sabina, Oakland University William Beaumont School of Medicine)

Breakout Session II

(Co-Chairs: K. Thompson, University of New England College of Osteopathic Medicine; E. McKee, Central Michigan University College of Medicine)

1:00 - 2:30 pm

A. Clinical Correlates / Demonstration of Relevance

Making Biochemistry Relevant to a 1st Year Dental Student

M. Wimmer, WVU Health Sciences Center

1:00 - 2:30 pm

B. Teaching Modalities / Tools

"Elluminated" in Collaboration and Interaction-Best Practice of Biochemistry eTeaching

B. Zhang, Lake Erie College of Osteopathic Medicine, Bradenton

2:30 - 3:00 pm - Break

3:00 - 5:00 pm - **Poster Session**

Evening / Dinner on Own

Wednesday, May 08

7:00 - 8:15 am - Breakfast on La Terraza

Breakout Session III

(Co-Chairs: N. Osheroff, Vanderbilt University School of Medicine; S. Noramly, UVA School of Medicine)

8:30 - 10:00 am

A. Teaching Higher Level Biochemistry

Changes to the Undergraduate Science Curriculum and Potential Effects on STEM, Graduate & Medical Education

C. Brenner, University of Iowa Carver College of Medicine

Redox State Steady State as a Unifying Principle in Medical Biochemistry

P. Rubenstein, University of Iowa Carver College of Medicine

Principles for Explaining Metabolism

C. Slaughter, GHSU-UGA Medical Partnership, Athens GA

8:30 - 10:00 am

B. Assessment Tools

A Tagged Electronic Database of Exam Questions (TEDEQ) as a Tool for Student Self-Evaluation
J. N. Gad, ExamSoft Worldwide, Inc.

Using the NBME Global Evaluation Management System (GEMS) to Create and Deliver Your Own Tests

A. Butler, M. Nelson, NBME

10:00 - 10:30 am - Break

Breakout Session IV

10:30 - 12:00 pm

A. Teaching Modalities / Tools

Pattern Recognition of Unifying Themes for Learning Biochemistry

C. Wilkins, R. Ritchie, Michigan State University College of Osteopathic Medicine / small group discussion

10:30 - 12:00 pm

B. Biochemistry in an Integrated Curriculum

Best Practices in Interdepartmental Interactions / Shared Responsibilities in Course Directorship

E. Abali, Robert Wood Johnson Medical School-UMDNJ / Panel

12:00 - 1:00 pm - Lunch on La Terraza

Plenary Session IV: Biochemistry and Competency-Based Education: Beyond Knowledge

(Co-Chairs: T. Fulton, UCSF School of Medicine; K. Thompson, University of New England College of Osteopathic Medicine)

1:00 - 1:45 pm - AAMC's Project on Defining Competencies at the Transition from Graduation to Residency: What Scientific Skills are Needed?

J. Lindsley, University of Utah School of Medicine; T. Fulton, UCSF School of Medicine

1:45 - 2:30 pm - Fostering Academic Achievement and Patient-Centered Orientation in Healthcare Professional Students through Critical Reflection in Biochemistry Courses

L. Van Winkle, Midwestern University Chicago College of Osteopathic Medicine

2:30 - 3:00 pm - Break

3:00 - 4:15 pm - A Curricular Exercise: Training Medical Students to Answer Layman's Questions

R. Ritchie, C. Wilkins, Michigan State University College of Osteopathic Medicine

4:30 - 5:00 pm - **ABCD Business Meeting**

7:30 - 10:30 pm - Closing Dinner & Session

Thursday, May 09

7:00 - 8:00 am - Breakfast on La Terraza

Breakout Session V

8:00 - 11:00 am

A. Biochemistry Learning Objectives in Pharmacy Education

(Co-Chairs: K. Kearney, Massachusetts College of Pharmacy and Health Sciences J. Stoll, Texas Tech University Health Sciences Center)

Working Groups - each group reviews its assigned Learning Objectives (version of 2011) and comes up with a (preliminary) list of what is appropriate for Pharm. Ed, and what needs to be changed:

- Fundamentals
- Amino acids, Proteins, Enzymes
- Carbohydrate structure & metabolism
- Lipid structure & metabolism
- Signaling, Hormones, Diabetes
- Nucleotides (Folate, One-carbon metabolism)
- DNA: (Structure) Replication, Transcription, Translation
- Nutrition
- Blood

Working groups report
What's next?

8:00 - 9:30 am

B. Students Who Struggle in Biochemistry: Causes, Remedies and Outlook

P. Ronner, Thomas Jefferson University Jefferson Medical College; D. Cruthirds, Samford University McWhorter School of Pharmacy / Panel

9:30 - 11:00 am

C. Resource Sharing: Incorporating Nutrition into a Pre-clinical Medical Biochemistry Curriculum

D. Bessesen, University of Colorado School of Medicine / Panel

11:00 am - Adjourn