

5th International
Conference of the
Association of
Biochemistry
Course Directors



LaFonda Hotel
Santa Fe, New Mexico
May 03–07, 2015



5th International Conference of the Association of Biochemistry Course Directors (ABCD)

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Santa Fe, NM
May 03 - 07, 2015**

ABCD Executive (ABCDEx) Committee

Neil Osheroff, Chair, Vanderbilt University School of Medicine
Eric Niederhoffer, Chair-Elect, Southern Illinois University School of Medicine
Rick Sabina, Past-Chair, Oakland University William Beaumont School of Medicine
Susan Cline, Secretary, Mercer University School of Medicine
Mary Wimmer, Treasurer, West Virginia University Health Sciences Center
David Franklin, Webmaster, Tulane University School of Medicine
Alan Diekman, Member-at-Large, University of Arkansas School of Medicine
Tanis Hogg, Member-at-Large, Paul L. Foster School of Medicine, Texas Tech University
Health Sciences Center
Kevin Kearney, Member-at-Large, MCPHS University
Steven King, Member-at-Large, Oregon Health and Science University
David Pearson, Member-at-Large, Cal-Northstate University College of Pharmacy
Clive Slaughter, Member-at-Large, Georgia Regents University-University of Georgia Medical
Partnership
Kathryn Thompson, Member-at-Large, University of New England College of Osteopathic
Medicine

Agenda

Sunday, May 03

8:00 - Noon	ABCDEx Pre-Conference Business Meeting.....Stiha Room
Noon - 1:00 pm	ABCDEx Lunch
3:00 - 6:00 pm	Registration Desk Open.....LaTerraza Foyer
6:00 - 7:00 pm	Welcome Reception.....LaTerraza
7:00 - 8:00 pm	Welcome Dinner
	Opening Session
8:00 - 8:30 pm	<i>Welcome and State of the ABCD Address</i> •Neil Osheroff, ABCDEx Chair
8:30 - 8:50 pm	<i>Using Top Hat to Increase Audience Engagement and Feedback in an Academic Setting</i> •Amanda Hosek, Top Hat



Top Hat is the leading teaching platform that professors use to create an active learning environment. Using Top Hat, professors can transform students' smartphones into tools of engagement, leading to increased attendance, higher grades, and a more effective lecture experience. Top Hat was founded in 2009 by two students who were inspired by the underutilization of their own devices in the classroom. Today, Top Hat is used and adored by over 500 universities, 4,000 professors, and half a million students worldwide.

8:50 - 9:00 pm	<i>Nominations for ABCDEx Openings and Election Process</i> •Susan Cline, ABCDEx Secretary
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Note: For those interested members who did not submit an application by the pre-meeting due date, you will have until Monday, May 04 at 1:00 pm to submit an application to Susan Cline if you wish to be considered for election to the Association of Biochemistry Course Directors Executive Committee. Polling will open at 8:00 am on Tuesday, May 05 and close at 10:30 am on Wednesday, May 06.

Newly elected members will be announced on Wednesday at lunch and officers determined at the meeting of the ABCDEx on Wednesday afternoon.

Monday, May 04

7:00 - 8:00 am **Buffet Breakfast.....La Terraza**

Fifth International ABCD Conference.....Lumpkin North

Plenary Session I

Horizontal and Vertical Integration of Basic and Clinical Sciences

Co-Chairs: Neil Osheroff, Vanderbilt University School of Medicine
 Eric Niederhoffer, Southern Illinois University School of Medicine

8:00 - 9:00 am Plenary Speaker
 Making Basic Science Visible (S-01)
 •Nikki Woods, The Wilson Centre, University of Toronto School of
 Medicine

9:00 - 9:30 am ***Teaching of Biochemistry Fundamentals in the Critical Care
Clerkship Using a Case-Based Approach (S-02)***
 •Clive Slaughter, Georgia Regents University-University of
 Georgia Medical Partnership

9:30 - 10:00 am ***Integration of Basic Sciences into the Clerkship Years (S-03)***
 •Neil Osheroff, Vanderbilt University School of Medicine

10:00 - 10:30 am **Break**

10:30 - 12:00 pm ***Integration of Basic Science in Clinical Medicine – workshop
(S-04)***
 •Cheryl Dickson, Western Michigan University School of Medicine

12:00 - 1:00pm **Lunch.....La Terraza**

Plenary Session I (continued)

Chair: Rick Sabina, Oakland University William Beaumont School of Medicine

Integration of Biochemistry into Clinical TeachingLumpkin North

1:00 – 2:00 pm ***Biochemistry Concepts that Promote Better Medical
Decision Making: The MedU Science Project (S-05)***
 Panel discussion
 •Susan Cline, Mercer University School of Medicine
 •Tracy Fulton, UCSF School of Medicine
 •Janet Lindsley, University of Utah School of Medicine
 •Peter Rubenstein, University of Iowa College of Medicine
 •Clive Slaughter, Georgia Regents University-University of
 Georgia Medical Partnership
 •Kathryn Thompson, University of New England College
 Osteopathic Medicine

Breakout Session I

A. Approaches to Teaching and Assessment.....Lumpkin North

Chair: David Franklin, Tulane University School of Medicine

2:00 - 3:00 pm

Channeling a Clinician: Design and Construction of Clinical Scenarios for Teaching and Assessment – workshop (S-06)

•Eric Niederhoffer, Southern Illinois University School of Medicine

3:00 - 4:00 pm



The Importance of Alignment: Developing Assessments that Reflect Course Goals - workshop (S-07)

•Melinda Maris, Philadelphia College of Osteopathic Medicine

B. Biochemistry in Pharmacy EducationLumpkin South

Chair: Kevin Kearney, MCPHS University

David Pearson, Cal-Northstate University College of Pharmacy

2:00 – 3:00 pm

What Do Pharmacy Students Need to Know about Biochemistry? Biochemistry Learning Objectives in Pharmacy Education – panel discussion (S-08)

•Kevin Kearney, MCPHS University

•Danielle Cruthirds, McWhorter School of Pharmacy, Samford University

•David Harrison, College of Pharmacy, Rosalind Franklin University of Medicine and Science

•James Stoll, School of Pharmacy, Texas Tech University Health Sciences Center

3:00 - 3:30 pm

Usefulness of Laboratory Research in Pharmacy Education (S-09)

•Arup Chakraborty and Darla Zarley, Roseman University of Health Sciences College of Pharmacy

3:30 – 4:00 pm

The Use of TBL in a Non-Traditional Laboratory Elective Course, A 3-Year Perspective (S-10)

•David Pearson, and Tibebe Woldermariam, Cal-Northstate University College of Pharmacy

4:00 - 4:30 pm

Break

Breakout Session II

4:30 - 5:15 pm

Concurrent Education Discussion Group Sessions (EDGrS):



A. Best Practices/Challenges for Implementing a TBL Program (S-11)Lumpkin North

•Rick Sabina, Oakland University William Beaumont School of Medicine

•David Franklin, Tulane University School of Medicine

•Edward McKee, College of Medicine - Central Michigan University



B. Educational Research: Do We Know What We Are Trying to Do? (S-12)Lumpkin South

•Eric Niederhoffer, Southern Illinois University School of Medicine



C. DIY Medical/Pharmacy/Dental Education? Effective Presentation of Self-Directed Learning Modules (S-13)Stiha Room
•Alan Diekman, University of Arkansas for Medical Sciences

5:45 - 6:00 pm **Group Photograph.....La Terraza Patio**

6:00 - 7:00 pm **Dinner.....La Terraza**

7:00 - 9:00 pm **Poster Session (with Refreshments).....Mezzanine**

- P-01 - Bangeranye
- P-02 - Binstock
- P-03 - Carpenter
- P-04 - Chastain
- P-05 - Cruthirds
- P-06 - Ellis
- P-07 - Fontes
- P-08 - Griffin
- P-09 - Gromley
- P-10 - Ho
- P-11 - Lizotte
- P-12 - Louda
- P-13 - Manzerra
- P-14 - Maris
- P-15 - Nishimoto
- P-16 - Prochaska
- P-17 - Richie
- P-18 - Ronner
- P-19 - Sadik
- P-20 - Sanders
- P-21 - Seyfang
- P-22 - Simmons
- P-23 - Slaughter
- P-24 - Abali

Tuesday May 05

7:00 - 8:00 am **Buffet Breakfast.....La Terraza**

Plenary Session II.....Lumpkin North
Teaching Modalities Old and New (part I)

Chair: Neil Osheroff, Vanderbilt University School of Medicine

8:00 - 9:00 am ***Novel Strategies for Teaching Basic Sciences to Digital Natives (S-14)***
•Sarah Farrell, Apple Education

Plenary Session III
Educational Research and Scholarship

Chair: Tanis Hogg, Paul L. Foster School of Medicine, Texas Tech University Health Sciences Center

9:00 - 10:00 am ***Scholarly Teaching and Scholarship of Teaching – Making it Count Twice (S-15)***
•Georges Bordage, University of Illinois Chicago College of Medicine

10:00 - 10:30 am **Break**

10:30 - 12:00 am ***Constructing an Effective Instructor Guide for MedEdPortal Publications - workshop (S-16)***
•Rick Sabina, Oakland University William Beaumont School of Medicine

12:00 - 1:00pm **LunchLa Terraza**

Breakout Session III

1:00 - 1:45 pm **Concurrent Education Discussion Group Sessions (EDGrS):**



A. Integrated Centralized Curricula: Impact on Departments and Course Directors (S-17)Lumpkin North
•Neil Osheroff, Vanderbilt University School of Medicine



B. Small Group Facilitation: Biochemist or Sociologist? (S-18)Lumpkin South
•Susan Cline, Mercer University School of Medicine

C. Lessons Learned from “Flipping” Biochemistry Lectures (S-19)Stiha Room
•Emine Abali, Rutgers Robert Wood Johnson Medical School
•David Franklin, Tulane University School of Medicine
•Rick Sabina, Oakland University William Beaumont School of Medicine

Free Afternoon

Enjoy Santa Fe!
Georgia O’Keefe Museum ticket provided with registration

Dinner / Evening on Own

Wednesday, May 06

7:00 - 8:00 am **Buffet Breakfast.....La Terraza**

ABCD International Conference.....Lumpkin North

AMGDB Session

Chair: Neil Osheroff, Vanderbilt University School of Medicine

8:00 - 8:30 pm ***Greetings from the AMGDB – a Chair’s Perspective on Post-Baccalaureate Education and Educators***
•Bruce Nicholson, University of Texas Health Science Center San Antonio, President, Association of Medical and Graduate Departments of Biochemistry (AMGDB)

Plenary Session IV

Teaching Modalities Old and New (part II)

Chair: Susan Cline, Mercer University School of Medicine

8:30 – 9:30 am ***Maximizing Learning through Spacing Content, Mixed Practice, and Formative Testing with Feedback (S-20)***
•Georges Bordage, University of Illinois Chicago College of Medicine

9:30 - 10:00 am ***Spaced Education as a Modality for Review and Retention in Preclerkship Education: A Pilot Study that Includes Biochemistry and Genetics (S-21)***
•Tracy Fulton, UCSF School of Medicine

10:00 - 10:30 am **Break**

Plenary Session V

Biochemistry and Nutrition in Health Maintenance and Disease Treatment

Chair: Kathryn Thompson, University of New England College of Osteopathic Medicine


10:30 - 11:30 am ***Planning a Nutrition Curriculum: How to Decide What Skills Students Should Learn – panel discussion (S-22)***
Clive Slaughter, Georgia Regents University-University of Georgia Medical Partnership
•Janet Lindsley, University of Utah School of Medicine
•Peter Rubenstein, University of Iowa College of Medicine

11:30 - 12:00 pm ***Using Metabolic Integration To Teach Medical Students How Diet Can Be Manipulated To Treat Obesity And Type II Diabetes (S-23)***
•Eileen Lafer, University of Texas Health Science Center at San Antonio

12:00 - 1:00pm **LunchLa Terraza**

Plenary Session VI
Teaching Modalities Old and New (part III)

Chair: Alan Diekman, University of Arkansas School of Medicine

- 1:00 - 2:30 pm ***Using Concept Mapping as a Tool for Integration – workshop (S-24)***
• Douglas Spicer and Kathryn Thompson, University of New England College of Osteopathic Medicine
- 2:30 - 3:00 pm **Break**
- 3:00 - 4:00 pm ***Development of a Standardized Metabolic Map for Learning and Assessment – panel discussion (S-25)***
 • Tracy Fulton, UCSF School of Medicine
• Tina Cowan, Stanford University School of Medicine
• Janet Lindsley, University of Utah School of Medicine
- 4:00 - 5:30 pm **ABCDEx Business Meeting.....Lumpkin North**
- 7:00 - 10:00 pm **Closing Reception, Dinner & Session.....La Terraza**
• Neil Osheroff, ABCDEx Chair, 2013-2015
• Eric Niederhoffer, ABCDEx Chair, 2015-2017

Thursday, May 07

7:00 - 8:00 am **Breakfast.....La Terraza**

Breakout Session IV

A. Biochemistry Competency and AssessmentLumpkin North

Chair: Clive Slaughter, Georgia Regents University-University of Georgia Medical Partnership

8:00 - 8:45 am ***What is Biochemistry? NBME Subject and USMLE Step Exam Observations from Writers and Reviewers (S-26)***

- Eric Niederhoffer, Southern Illinois University School of Medicine
- Janet Lindsley, University of Utah School of Medicine

8:45 – 9:30 am ***Performance Data for Basic Science on USMLE 2 & 3 (S-27)***

- Steven Haist, NBME

B. Selected Poster TalksLumpkin South

Chair: Kevin Kearney, MCPHS University

8:00 - 8:15 am ***A Flipped Classroom Approach to Teaching Biochemistry Leads to Greater Learning Gains (P-14)***

- Melinda Maris, Philadelphia College of Osteopathic Medicine

8:15 - 8:30 am ***A Curricular Exercise: Training Medical Students to Answer Layman's Questions (P-22)***

- Jana Simmons, College of Human Medicine, Michigan State University

8:30 - 8:45 am ***Faculty Deveopment, Logistics and Positive Student Outcomes Associated with Implementing Small Group Active Learning at a Large, Multi-Site Medical Campus (P-17)***

- Raquel Richie, College of Osteopathic Medicine, Michigan State University

8:45 - 9:00 am ***Developing an Integrated Organ System Curriculum Using Student-Led Case-Based Learning Complemented with Team-Based Learning (P-08)***

- Daniel Griffin, College of Medicine, Central Michigan University

9:00 - 9:15 am ***Strategies to Incorporate Inborn Errors of Metabolism into an Integrated Medical Curriculum (P-12)***

- Deborah Louda, Charles E. Schmidt College of Medicine, Florida Atlantic University

9:15 - 9:30 am ***Use of Simple, Factual Recall Quizzes to Assist in Learning Medical Biochemistry (P-07)***

- Joseph Fontes, University of Kansas Medical Center

9:30 am **Closing Session.....Lumpkin North**
Closing Remarks & Adjournment