

**2023 AAB Educational Conference and CRB Symposium & Workshop**  
**May 9-12 • Las Vegas (Summerlin), Nevada**  
**JW Marriott Las Vegas Resort & Spa**

**Preliminary Schedule of Events**

As of February 28, 2023, v1.4

Tuesday, May 9, 2023		
Time	Pre-Conference Events	
7:00 a.m.-5:30 p.m.	Conference Registration	
7:00 a.m.-5:00 p.m.	American Board of Bioanalysis (ABB) Meeting	
8:00 a.m.-4:00 p.m.	American Board of Bioanalysis (ABB) Certification Examination	
8:00 a.m.-11:45 a.m.	<p><b>CRB Cryopreservation Workshop: History, Theory, and Practice</b>  <i>Wayne Caswell, MS, CLS(NCA)</i>            Senior Director for Professional Education and Clinical Support            CooperSurgical, Inc., Trumbull, Connecticut</p> <p><i>Christine Allen, PhD, MSc, TS(ABB)</i>            Director of Operations, Elite IVF, Ann Arbor, Michigan            Scientific Director, Fleury Fertility Network, São Paulo, Brazil            Scientific Director, Panama Fertility, Panama City, Panama</p> <p>Assisted by:  <i>Anthony Anderson, DHSc, ELD(ABB)</i>            EmbryoDirector, IVF Academy USA, San Antonio, Texas</p> <p><i>Eva Schenkman, PhD, MS, CLT(NYS), TS/CC/ELD/HCLD(ABB)</i>            Consultant Embryologist, ARTLAB Consulting, Inc., Nashville, North Carolina</p> <p><i>Deborah Venier, MSc, TS(ABB)</i>            WEST – World Embryology Skills &amp; Training, Carlsbad, California</p> <p><i>William Venier, MSc, ELD/TS(ABB)</i>            Laboratory Director, San Diego Fertility Center, San Diego, California</p>	
11:45 a.m.-1:00 p.m.	Lunch On Your Own	
1:00 p.m.-4:00 p.m.	<b>CRB Cryopreservation Workshop (continued)</b>	
5:30 p.m.-10:00 p.m.	AMS Administrative Board Meeting	
Wednesday, May 10, 2023		
Time	CRB Symposium	AAB/AMS Technical Program
7:00 a.m.-7:30 p.m.	Conference Registration	
7:30 a.m.-8:30 a.m.	Continental Breakfast	
8:30 a.m.-9:15 a.m.	<p><b>Welcome and Opening Remarks</b>  <b>CRB Business Meeting</b>  <i>Joseph Conaghan, PhD, HCLD/ELD/CC(ABB);</i>  <i>AAB President</i>            Laboratory Director, Pacific Fertility Center            San Francisco, California</p> <p><i>Salu Ribeiro, MSc, TS(ABB), ELS/ALS(AAB);</i>  <i>Chairman, CRB Meeting Committee</i>            Senior Embryologist, IVF Laboratory            UCSF Ctr. for Reproductive Health, Mission Bay Campus            San Francisco, California</p>	<p><b>The Ongoing Challenges of Viral Respiratory Disease</b>  <i>Burton Wilcke, PhD</i>            University of Vermont            Burlington, Vermont</p>

Wednesday, May 10, 2023 (continued)		
Time	CRB Symposium	AAB/AMS Technical Program
9:15 a.m.-9:45 a.m.	<b>Automation of Cryogenics</b> <i>Christine Allen, PhD, MSc, TS(ABB)</i> Director of Operations, Elite IVF, Ann Arbor, Michigan Scientific Director, Fleury Fertility Network, São Paulo, Brazil Scientific Director, Panama Fertility, Panama City, Panama  <i>Introduction/Moderator: Salu Ribeiro, MSc, TS(ABB), ELS/ALS(AAB)</i>	<b>The Ongoing Challenges of Viral Respiratory Disease (continued)</b> <i>Burton Wilcke, PhD</i> University of Vermont Burlington, Vermont
9:45 a.m.-10:45 a.m.	<b>CAP Inspections – What Inspectors Are Looking For</b> <i>Erica J. Behnke, PhD, HCLD(ABB)</i> Andrology Laboratory Director, Ovation Fertility Cincinnati Laboratory Director, Fertility Wellness Institute Cincinnati, Ohio  <i>Introduction/Moderator: Matthew C. Hudnall, MS, TS(ABB), CLC(AMT)</i>	<b>Molecular Diagnostics for Pathogen Detection</b> <i>Michelle Altrich, PhD, HCLD(ABB)</i> Eurofins Viracor Lenexa, Kansas
10:45 a.m.-11:15 a.m.	Break	
11:15 a.m.-12:15 p.m.	<b>SART Your Engines: Discover How SART Can Power Your Practice</b> <i>Sangita K. Jindal, PhD, HCLD(ABB)</i> Professor and IVF Laboratory Director President, Society for Assisted Reproductive Technology (SART) Albert Einstein College of Medicine, Bronx, New York Montefiore's Institute for Reproductive Medicine and Health, Hartsdale, New York  <i>Introduction/Moderator: Matthew C. Hudnall, MS, TS(ABB), CLC(AMT)</i>	<b>Candida auris</b> <i>Maura Pieretti, PhD, HCLD(ABB)</i> BayCare Laboratories Tampa, Florida
12:15 p.m.-1:45 p.m.	CRB Luncheon / Roundtable Presentations	AAB/AMS Luncheon / Roundtable Presentations
1:45 p.m.-2:30 p.m.	<b>Using Artificial Intelligence to Better Understand Your Embryos</b> <i>Cristina Hickman, PhD</i> Chief Clinical Officer for Fairtivity London, England, United Kingdom  <i>Introduction/Moderator: Salu Ribeiro, MSc, TS(ABB), ELS/ALS(AAB);            Chairman, CRB Meeting Committee</i>	<b>COVID-19 Viruses: Unleashing of Infections, Syndromes, and Diseases</b> <i>John H. Hughes, PhD</i> The Ohio State University Columbus, Ohio  <i>John J. Weiss, PhD</i> Allermatrix, Inc. Franklin, Tennessee
2:30 p.m.-3:00 p.m.	Break	
3:00 p.m.-3:45 p.m.	<b>The Effect of Environmental Stress on Senescence Biomarkers in Preimplantation Embryos</b> <i>Eva Schenkman, PhD, MS, CLT(NYS), TS/CC/ELD/HCLD(ABB)</i> Consultant Embryologist, ARTLAB Consulting, Inc. Nashville, North Carolina  <i>Introduction/Moderator: Charlene Alouf, PhD, HCLD/TS(ABB)</i>	<b>COVID-19 Viruses: Unleashing of Infections, Syndromes, and Diseases (continued)</b> <i>John H. Hughes, PhD</i> The Ohio State University Columbus, Ohio  <i>John J. Weiss, PhD</i> Allermatrix, Inc. Franklin, Tennessee
3:45 p.m.-5:45 p.m.	Oral Abstracts	(3:45 p.m.-4:45 p.m.) <b>Let's Talk About Heparin-Induced Thrombocytopenia</b> <i>Larry J. Smith, PhD, HCLD/CC(ABB)</i> Laboratory Medicine Consultant Gilroy, California
5:45 p.m.-6:00 p.m.	<b>The ABB Examination: Separating Fact from Fiction</b> <i>Brooks Keel, PhD, HCLD(ABB); Chairman, American Board of Bioanalysis (ABB)</i> President, Augusta University Augusta, Georgia  <i>Introduction/Moderator: Tammie Schalue, PhD, HCLD(ABB)</i>	(4:45 p.m.-5:45 p.m.) <b>Natural vs. Vaccine Immunity</b> <i>Charles E. Gilbert, PhD, MS</i> Epidemiology & Toxicology Institute Holbrook, New York
6:00 p.m.-7:00 p.m.	Welcome Reception and Poster Session	

Thursday, May 11, 2023		
Time	CRB Symposium	AAB/AMS Technical Program
7:00 a.m.-7:30 p.m.	Conference Registration	
7:30 a.m.-8:45 a.m.	Continental Breakfast	
8:45 a.m.-9:45 a.m.	<p><b>FDA Regulation of Human Cells and Tissues: What Reproductive Establishments Need to Know</b> (8:45 a.m.-9:15 a.m.) <i>Melissa A. Greenwald, MD, Capt. USPHS (Ret.)</i> MA Greenwald Consulting, LLC Chicago, Illinois</p> <p><b>Panel Discussion on FDA Regulations</b> (9:15 a.m.-9:45 a.m.) Panelists: <i>Melissa A. Greenwald, MD, Capt. USPHS (Ret.); Sangita Jindal, PhD, HCLD(ABB); and Benjamin R. Emery, MS, TS(ABB)</i></p> <p>Moderator: <i>Matthew C. Hudnall, MS, TS(ABB), CLC(AMT)</i></p> <p><i>Introduction/Moderator: Matthew C. Hudnall, MS, TS(ABB), CLC(AMT)</i></p>	<p><b>Workshop: Your QC Data Can Save Your Lab Money and Lower Healthcare Costs</b> <i>Zoe C. Brooks, CEO and Visionary</i> AWESome Numbers, Inc. Worthington, Ontario, Canada</p> <p>Moderator and Facilitator: <i>Bonny Lewis Van, PhD, HCLD(ABB)</i> J Michael Consulting Brownsburg, Indiana</p>
9:45 a.m.-10:45 a.m.	<p><b>Contracting Humanity: Legal Governance of the Direct-to-Consumer Genetic Testing Industry and Implications for Ancestry</b> <i>Kayte Spector-Bagdady, JD, MBioethics</i> Interim Co-Director, Center for Bioethics &amp; Social Sciences in Medicine Assistant Professor, Obstetrics &amp; Gynecology Michigan Medicine – University of Michigan Ann Arbor, Michigan</p> <p><i>Introduction/Moderator: Dara Berger, PhD, HCLD/TS(ABB)</i></p>	
10:45 a.m.-11:15 a.m.	Break	
11:15 a.m.-12:15 p.m.	<p><b>Greater Understanding of Human Oocyte Meiotic and Embryo Mitotic Chromatin Segregation Abnormalities</b> <i>Gary D. Smith, PhD, HCLD(ABB)</i> Professor, Department of Obstetrics and Gynecology Michigan Medicine – University of Michigan Ann Arbor, Michigan</p> <p><i>Introduction/Moderator: Matthew C. Hudnall, MS, TS(ABB), CLC(AMT)</i></p>	<p><b>The Opiate Overdose Epidemic</b> <i>Charles E. Gilbert, PhD, MS</i> Epidemiology &amp; Toxicology Institute Holbrook, New York</p>
12:15 p.m.-1:45 p.m.	CRB Luncheon / Roundtables	(12:15 p.m.-1:15 p.m.) AAB/AMS Networking Luncheon
		(1:15 p.m.-1:45 p.m.) Associate Member Section (AMS) Business Meeting (Open to All AMS Members)
1:45 p.m.-2:45 p.m.	<p><b>Keynote Presentation: PGT-A</b> <i>Sebastiaan Mastenbroek, PhD</i> Clinical Embryologist Center for Reproductive Medicine Amsterdam University Medical Centers University of Amsterdam</p> <p><i>Introduction/Moderator: Christine Allen, PhD, MSc, TS(ABB)</i></p>	<p><b>What To Do with These Body Fluids</b> <i>Larry J. Smith, PhD, HCLD/CC(ABB)</i> Laboratory Medicine Consultant Gilroy, California</p>
2:45 p.m.-3:15 p.m.	Break	

Thursday, May 11, 2023 (continued)		
Time	CRB Symposium	AAB/AMS Technical Program
3:15 p.m.-4:00 p.m.	<p><b>The Impact of Zwitterionic Buffer from Intracytoplasmic Sperm Injection (ICSI), and the Beneficial Use of Bicarbonate Buffer, on Oocyte Competence, Embryo Development, and Clinical Outcome</b>  <i>Robert J. Mendola, PhD, HCLD/TS(ABB)</i>            Senior Embryologist / Asst. Director of Scientific Research            IRMS at Saint Barnabas / CCRM            West Orange, New Jersey</p> <p><i>Introduction/Moderator: Eva Schenkman, PhD, MS, CLT(NYS), TS/CC/ELD/HCLD(ABB)</i></p>	<p>(3:15 p.m.-4:15 p.m.)  <b>Sepsis: When Infection Leads to Immune Dysregulation</b>  <i>Mary Mayo, PhD, BCLD(ABB)</i>            Mount Juliet, Tennessee</p>
4:00 p.m.-4:45 p.m.	<p><b>Partnering With Your People</b>            (4:00-4:20 p.m.)  <i>Mahshid Albrecht, MBA</i>            UC San Diego Health – Director of Ambulatory OB/GYN            Women’s Pelvic Medicine Center            Reproductive Endocrinology and Fertility            San Diego, California</p> <p><b>Panel Discussion on Employer / Employee Relationships</b>            (4:20 p.m.-4:45 p.m.)            Panelists: <i>Charlene A. Alouf, PhD, HCLD/TS(ABB);</i>  <i>Marlane J. Angle, PhD, HCLD/CC(ABB);</i>  <i>Brian M. Culnan, Esq.; and Kristen A. Ivani, PhD, HCLD/ELD/CC/ALD(ABB)</i></p> <p>Moderator: <i>Jeffrey J. Sherrin, Esq., O’Connell &amp; Aronowitz, AAB/CRB General Counsel</i></p> <p><i>Introduction/Moderator: Salu Ribeiro, MSc, TS(ABB), ELS/ALS(AAB)</i></p>	<p>(4:15 p.m.-5:15 p.m.)  <b>Susceptibility Testing Using PCR</b>  <i>Bonny Lewis Van, PhD, HCLD(ABB)</i>            J Michael Consulting            Brownsburg, Indiana</p>
4:45 p.m.-5:30 p.m.	<p><b>FMEA (Failure Modes and Effects Analysis)</b>  <i>Kristen A. Ivani, PhD, HCLD/CC/ALD/ELD(ABB)</i>            Senior Embryologist            Reproductive Science Center of the Bay Area            San Ramon, California</p> <p><i>Introduction/Moderator: Salu Ribeiro, MSc, TS(ABB), ELS/ALS(AAB)</i></p>	
5:30 p.m.-6:15 p.m.	<p><b>Non-invasive PGT-A: Current Challenges and Future Possibilities</b>  <i>Devin J. Monahan, MSc, TS(ABB)</i>            Embryologist            Laurel Fertility Care            San Francisco, California</p> <p><i>Introduction/Moderator: Marlane J. Angle, PhD, HCLD/CC(ABB)</i></p>	
6:15 p.m.-7:15 p.m.	Networking Reception	
Friday, May 12, 2023		
Time	CRB Symposium	
7:00 a.m. - 12:30 p.m.	Conference Registration	
7:45 a.m. - 9:00 a.m.	Continental Breakfast	
8:00 a.m.-9:00 a.m.	AAB Business Meeting (Open to All AAB Members)	

**Friday, May 12, 2023 (continued)**

Time	CRB Symposium
9:00 a.m.-10:00 a.m.	<p><b>How Can We Help Oncofertility? Implementing A High Volume Oncofertility Program and Why It Is of Key Importance</b></p> <p><i>Daniel Zylbersztejn, MD, PhD</i>                      Medical Director, DSZ Reproductive Medicine                      Medical Coordinator, Fleury Fertility                      Medical Advisor, Fleury Group Seminal Analysis Laboratory                      São Paulo, Brazil</p> <p><i>Mitchell P. Rosen, MD, HCLD(ABB)</i>                      Director, UCSF Fertility Preservation Program                      Reproductive Endocrinologist                      UCSF Center for Reproductive Health                      San Francisco, California</p> <p><i>Introduction/Moderator: Christine Allen, PhD, MSc, TS(ABB)</i></p>
10:00 a.m.-10:15 a.m.	Break
10:15 a.m.-11:15 a.m.	<p><b>Troubleshooting in the ART Lab – KPIs and Beyond</b></p> <p><i>Alison Bartolucci, PhD, HCLD(ABB)</i>                      ART Laboratory Director                      Assistant Professor, Depts. of ObGyn and Cell Biology                      UCONN/Center for Advanced Reproductive Services                      Farmington, Connecticut</p> <p><i>Introduction/Moderator: Salu Ribeiro, MSc, TS(ABB), ELS/ALS(AAB)</i></p>
11:15 a.m.-12:15 p.m.	<p><b>Clinical Decision Making with Machine Learning – The Embryologist’s Perspective</b></p> <p><i>Oleksii Barash, PhD, HCLD(ABB)</i>                      IVF Laboratory Director                      Reproductive Science Center of the Bay Area                      San Ramon, California</p> <p><i>Introduction/Moderator: Matthew C. Hudnall, MS, TS(ABB), CLC(AMT)</i></p>
1:00 p.m.-5:00 p.m.	AAB Board of Directors Meeting

**Preliminary Breakdown of Continuing Education**

CRB Workshop .....	6.5 Contact Hours
CRB Symposium .....	19.5 Contact Hours
CRB Workshop and Symposium .....	26.0 Contact Hours
AAB/AMS Technical Program.....	15.0 Contact Hours

The CRB Symposium and Workshop have been approved by PEER (American Board of Bioanalysis). In addition, contact hours earned can be used to satisfy CE requirements in the states of California, Florida, Louisiana, and Montana.

*Disclaimer: The content and views presented in this educational activity are those of the faculty/authors and do not necessarily reflect those of the American Association of Bioanalysts (AAB) or the AAB College of Reproductive Biology (CRB). The presented materials and information are not necessarily exhaustive of the subject matter, and laboratory professionals and all other individuals should review and consider other relevant materials and professional opinions and advice on the subject matter before making appropriate decisions.*

*The 2023 AAB Conference and CRB Symposium are being held in conjunction with the **National Independent Laboratory Association (NILA) Mid-year Meeting and Lab Leaders Forum**. NILA, a trade association for the community, regional, and health system clinical laboratories, will hold its annual Lab Leaders Forum Thursday-Friday, May 11-12.*