

Advanced Molecular Analytics PDG

Names of Attendees: Karen Jarvis (Chair), Xiangyu Deng (Vice Chair), Seun Agbaje, Hany Anany, Justin Anast, Ashley Aurand, Leen Baert, Mikio Bakke, Pratik Banerjee, Scott Benko, Rachel Binet, Mick Bosilevac, Luc Bourbonniere, Megan Brown, Catharine Carlin, Jessica Chen, Elaine Chiu, Andrea Cipriani, Michelle Danyluk, Jamie Dement, Francisco Diez-Gonzalez, Vikrant Dutta, April Englishbey, Patrick Fach, John Fam, Khashayar Farrokhzad, Willis Fedio, Emily Feldpausch, Savannah Forgey, Aliyar Fouladkhah, Eduardo Franco Frias, Mario Gadanho, Oscar Galagarza Angulo, Heather Garcia, Beilei Ge, Solomon Gebru, Zachery Geurin, Virendra Gohil,

Julie Haendiges, Yingshu He, Sunee Himathongkham, Maria Hoffmann, Edan Hosking, Laura Howard, Lee Katz, Michelle Keener, Brandon Kocurek, Jasna Kovac, Zachary Kuhl, Keith Lampel, David Legan, Shaoting Li, Johnathan Likens, Pushpinder Litt, Yuqian Lou, Shannara Lynn, Sabrina Mace, Frederic Martinez, David Melka, Joseph Meyer, Jesse Miller, Hansel Mina, Paul Morin, Xiangwu Nou, Ismail Odetokun, Palmer Orlandi, Franck Pandiani, Sophie Pierre, Florence Postollec, Yan Qi, Irwin Quintela, Joelle Salazar, Sarah Sanderson, Maria Scott, Girdhari Sharma, Sharon Shea, Shreya Singh Hamal, Daniel Smieszek, Daniele Sohier, Ben Somerton, Eric Stevens, Diane Stewart, Sandra Tallent, Nicholas Tan, Natsumi Tanaka, Carmen Tartera, Mary Lou Tortorello, Chun Wang, Xuwen Wieneke, Niradha Withana Gamage, Florence Wu, Season Xie, Feng Xu, Cheng Zhang, Jane Zheng, and Wen Zou.

Number of Attendees: 96.

Meeting Called to Order: 9:00 a.m., Sunday, July 21, 2019.

Minutes Recording Secretary: Eric Stevens and Julie Haendiges.

Old Business: A motion was made and passed to accept the 2018 meeting minutes with no revisions.

New Business:

1. The IAFP anti-trust guidelines were reviewed.
2. A summary of symposia/roundtables to be presented at the 2019 meeting were reviewed.
3. Speaker presentation: A week in The Life of Bioinformatics and Public Health, Lee Katz, CDC.
4. Speaker presentation: Food Microbiology Testing: What's Next? Michelle Keener, bioMérieux.
5. Speaker presentation: Developing standardized testing methods for cannabis compounds in food? Jesse Miller, NSF International.
6. Discussion about IAFP Connect – please log in and use this feature to communicate with other AMA PDG members if you are a member of IAFP.
7. Proposed symposia topic topics from AMA PDG members for the IAFP 2020 meeting

- a. Ways that different countries respond to outbreaks – intersect between AMR, food and trade – Eric Stevens; co-sponsor with international PDG.
- b. Intersection of Block chain and Pathogen surveillance – Jesse Miller.
- c. Emerging Pathogens – Jesse Miller.
- d. Importance of water in food safety – Eric Stevens.
- e. WGS workshop to include command line learning and metagenomics analyses – Maria Hoffman.
- f. Correlating Human Genome information with AI machine learning to understand transmission of foodborne pathogens.
- g. Probiotics speciation via WGS and other cheaper methods.
- h. Utilization of metagenomics to understand pathogen persistence and transmission through the food supply chain.
- i. Testing agricultural water for foodborne pathogens – Willis Fedio.
- j. Utilization of metagenomics to optimize culture methods for foodborne pathogens – Willis Fedio.
- k. Dos and Don'ts of using machine learning to understand pathogen persistence and transmission – Xiangyu Deng.
- l. How can we implement advanced technologies (WGS tools) for routine use in underdeveloped countries? Address issues such as lack of electricity – can cell phone apps provide support? There's an app for that.
- m. Develop standardization, validation, and verification methods/SOPs for WGS workflows implemented among agencies and institutions (FDA, USDA, AOAC, ISO).
- n. Update on *Vibrio* in Oysters.
- o. How to respond when a pathogen screening tool result is presumptive?

List of Recommendations to the Executive Board:

1. Is there a way to incorporate a drop-down menu so that members can choose more than one co-sponsor for symposia and roundtables?

Next Meeting Date: August 2–5, 2020, Cleveland, Ohio.

Meeting Adjourned: 10:30 a.m.

Chairperson: Karen Jarvis.