

# CCBGM Agenda

*Sheraton Suites Chicago O'Hare*

*Draft*

**Thursday, November 14, 2019**

- 1:00 – 1:45 pm Closed Meeting of IAB (includes NSF Program Director and Assessment coordinator and CCBGM Directors)
- 1:45 – 1:50 p.m. Welcome Remarks
- 1:50 – 2:05 p.m. State of the Center Report – Ravi Iyer, Illinois & Liewei Wang, Mayo, CCBGM Directors
- 2:05 – 2:15 p.m. Evaluator Comments/Life Forms– Dee Hoffman, Ph.D., CCBGM Assessment Coordinator
- 2:15 – 3:00 p.m. Introduction to the Science of CCBGM. An Overview of projects - where we've been and where we are going. Why are these project important and how to translate research into practical applications. Short presentation from Dick Weinshilboum followed by group discussion.

3:00 – 3:20 p.m.

***BREAK***

*Funded project reports – Quad Chart Reporting (10 minutes, 5 minute Q&A, 5 minutes Life Forms)*

- 3:20 – 3:40 p.m. From Analytics to Cognition: Taking Genomics to the Bedside - Ravi Iyer, Ph.D., Professor, Electrical and Computer Engineering, Univ. of Illinois, Richard Weinshilboum, M.D., Professor, Medicine and Pharmacology, Mayo Clinic.
- 3:40 – 4:00 p.m. Improving the Accuracy of Genomic Variant Calling Through Deep Learning. Deming Chen, Ph.D., Associate Professor, Electrical and Computer Engineering, Univ. of Illinois
- 4:00 – 4:20 p.m. Secure Access and Sharing of Health Data. Zbigniew Kalbarczyk, Research Professor, Electrical and Computer Engineering, Univ of Illinois . Eric Klee and Steve Hart, Mayo Clinic

*Funded Project – Seeking Annual Renewal (20 minutes, 5 minute Q&A, 5 minute LIFE FORMS)*

- 4:20 -4:50 p.m. Algorithms for Experimental Study Design in Cancer Genomics, Mohammed El-Kebir, Assistant Professor, Computer Science, Univ. of Illinois and Nick Chia, Assistant Professor, Mayo Clinic

*Funded Project – Final Report (20 minutes, 5 minute Q&A, 5 minute LIFE FORMS)*

4:50 – 5:20 p.m. Information-Compression Algorithms for Genomic data Storage and Transfer. Olgica Milenkovic, Ph.D., Associate Professor, Electrical and Computer Engineering, Univ. of Illinois

*Proposed Project/for IAB funding consideration – (15 min presentation, 5 Q&A, 10 min Life Forms)*

5:20 – 5:40 p.m. Machine Learning and Neurodegenerative Diseases, Ravi Iyer, Professor, Electrical and Computer Engineering, Univ. of Illinois

5:40 – 5:50 p.m. Introduction to Poster Session (Student Presenters)

6:15 – 7:00 p.m. Poster Session

7:00 – 8:30 p.m. Conference Dinner

## **Friday, November 15, 2019**

8:00 a.m. Arrival and Continental Breakfast

8:30 – 9:30 a.m. LIFE Form Review, Discussion, and Q&A - All Participants  
Dee Hoffman, Ph.D., CCBGM Evaluator, Moderator

9:30 – 11:00 a.m. IAB – Closed-Door Meeting, IAB Members and NSF

11:00 – 11:30 a.m. IAB Report Out, Discussion

11:30 – 11:50 a.m. Action Items and Plans for Next Meeting

11:50 – noon Summary and Closing Remarks

Ravi Iyer, Ph.D., Center Director, Univ. of Illinois

Liewei Wang, M.D., Ph.D., Center Co-Director, Mayo Clinic