

# OU GENOMICS

## SYMPOSIUM

Oakland Center, Lake Huron Room,  
March 7, 2019

### Morning Session: Functional Genomics

9:00  
am

**Khrystyna Schubelka**  
Oakland University

*Genetic basis of the  
twinning phenomenon in  
humans*

9:20  
am

**Sophia Chaudhry**  
Wayne State  
University

*Functional assessment of  
novel risk factors in  
hereditary ovarian cancer  
patients*

9:40  
am

**Valerie Irizarry**  
University of Michigan

*Crosstalk between tumor  
cells and it's  
microenvironment during  
pancreatic cancer*

10:20  
am

**Reagan Miller**  
Oakland University

*Analyzing the Role of  
Endothelial Cell  
Activation in AML*

10:40  
am

**Dominic Mier**  
Oakland University

*CRISPR Generated  
Knockout of a Novel  
Splicing Factor Involved  
in the Splicing of U12  
Type Introns*

11:00  
am

**Justin Kulchycki**  
Oakland University

*A Molecular Switch for  
Cell Type-Specific  
B4galnt2 Expression in  
Mice*

### Welcome Note

**12:00 Dr. Ora Hirsch Pescovitz**  
President, Oakland University

### Keynote Lecture

**12:10 Dr. Stephen J O'Brien,**  
Professor, NOVA Southeastern University

*'Promises-promises.  
Has the genome science revolution fulfilled a few?'*

## Lunch

1:00-2:00

### Afternoon Session: Computational Genomics

2:00  
pm

**Alexandra Weber** 2:20  
University of Michigan pm

*Identifying structural variation in the human genome using whole genome sequencing data*

**Anton Mahama** 2:40  
Oakland University pm

*Domain-level analysis of low complexity regions: an Archaea example*

**Wilfried Guiblet**  
Penn State University

*Non-B DNA Structures Affect Replication Speed, Sequencing Errors, and Mutation Rates*

3:20  
pm

**Kirill Grigorev** 3:40  
Cornell University pm

*Comparative circadian transcriptomics: novel and conserved features of the mammalian pineal gland*

**Ashley Superson** 4:00  
Oakland University pm

*Using a taxon sampling pipeline to explore robustness of the Tree of Life*

**Sarah Medley**  
Oakland University

*A bioinformatics approach to identify new candidate immunogenic regions in Plasmodium*

4:20  
pm

**Edmundo Torres-Gonzales** 4:40  
Penn State University pm

*Insights from Ancestry studies in Puerto Rico*

**Walter W. Wolfsberger** 5:00  
Oakland University pm

*Visualisation tools for population genetics analyses, based on study of Puerto Rican horse breeds*

**Israel Rivera**  
The University of Georgia

*Evolution of intracellular survival in Bordetellae*

## Q&A

Rochester Royal Park Hotel

6:00-7:00

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