

# Friday, Sept. 17, 2021

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**12:00 p.m.** Check into hotel (Main Lodge), register, set up poster in Pavilion (if you are in the Friday poster session), grab a box lunch and settle in.

**1:30 - 3:00 p.m. OPEN SESSION** (Blackfoot Conference Center):

*The last 5 minutes of each talk is reserved for questions.*

**1:30 – 2:00 p.m.** CBSD Director Bruce Bowler

*CBSD: Looking back and looking ahead*

**2:00 – 2:30 p.m.** MSU multiphoton resource talk, Misha Drobizhev

*Resource for Multiphoton Characterization of Genetically-Encoded Probes*

**2:30 – 3:00 p.m.** CBSD Start Up Funded Investigator, Patrick Secor

*Bacterial lysis releases a soluble danger signal that protects against bacteriophage infection*

**3:00 - 3:15 p.m. Session break for informal discussion** (Blackfoot Conference Center)

**3:15 - 3:40 p.m. OPEN SESSION** (Blackfoot Conference Center): Poster "Elevator" Talks

*Questions will be reserved for the poster session.*

**3:15 – 3:20 p.m.** Mary Ellenbecker, Post-Doc Fellow, Division of Biological Sciences

*DLC-1 promotes germ granule integrity in *C. elegans* embryo*

**3:20 – 3:25 p.m.** Eric John, Graduate Student, Chemistry

*Synthetic Anion Transporters Utilizing Hydrogen Bond Enhanced Halogen Bonds.*

**3:25 – 3:30 p.m.** Mike Rothfuss, Graduate Student, Biochemistry and Biophysics

*High accuracy achieved predicting stabilizing surface mutations in UBA(1).*

**3:30 – 3:35 p.m.** Emily Osterli, Research Assistant, Pharmaceutical Sciences

*COP9 signalosome component CSN-5 promotes accumulation and function of stem cell regulators FBF-1 and FBF-2*

**3:35 – 3:40 p.m.** James Bosco, Graduate Student, Chemistry & Biochemistry

*GLH Protein at the Heart of *P* Granule Network*

**3:40 – 3:45 p.m.** Amelia Schmidt, Graduate Student, Chemistry & Biochemistry

*A Filamentous Bacteriophage Protein Inhibits Type IV Pili to Prevent Superinfection of *Pseudomonas aeruginosa**

**3:45 - 4:00 p.m.** Poster Session Participant set up if didn't occur earlier and break time.

**4:00 - 6:00 p.m. OPEN SESSION:** Poster Session & Refreshments (Pavilion)

James Bosco

Misha Drobizhev

Mary Ellenbecker

Dominick Faith

Miyuki Hayashi

Eric John

Allison Kelly

Emily Osterli

Mariah Rayl

Mike Rothfuss

GLH Protein at the Heart of *P* Granule Network

Resource for Multiphoton Characterization of Genetically-Encoded Probes

DLC-1 promotes germ granule integrity in *C. elegans* embryo

A Filamentous Bacteriophage Protein Inhibits Type IV Pili to Prevent Superinfection of *Pseudomonas aeruginosa*

Characterization of nucleocapsid-RNA interactions in Rift Valley fever virus infection

Synthetic Anion Transporters Utilizing Hydrogen Bond Enhanced Halogen Bonds

Design and Synthesis of Triazole Trehalose Tuberculosis Vaccine Adjuvants

COP9 signalosome component CSN-5 promotes accumulation and function of stem cell regulators FBF-1 and FBF-2

Molecular Dynamics Simulations Reveal Ligand Dependent Variation in PPAR $\gamma$ -Coregulator Interactions

High accuracy achieved predicting stabilizing surface mutations in UBA(1)

**6:15 p.m.** Dinner (Pavilion)

**~8:00 p.m.** Campfire (fire restriction dependent)

**9:30 p.m.** Friday Poster pick up deadline

# Saturday, Sept. 18, 2021

**7:00 - 9:00 a.m.** Breakfast (Great Hall, Main Lodge)

**9:00 - 10:30 a.m.** OPEN SESSION Junior Investigator talks (Blackfoot Conference Center)  
*The last 5 minutes of each talk is reserved for questions.*

**9:00 – 9:30 a.m.** Monica Serban, *Can You Hear Me Now?*

**9:30 – 10:00 a.m.** Beverly Piggott, *Defining the pH landscape of brain development*

**10:00 – 10:30 a.m.** Travis Hughes, *A new paradigm of nuclear receptor activation*

**10:30 a.m.** Refreshments and informal discussions (Blackfoot Conference Center) followed by break

**11:00 – 11:45 a.m.** PRIVATE SESSION EAC meetings with Junior Investigators  
Beverly Piggott with Suzanne Scarlata (virtual) and Deborah Wuttke (virtual)  
Travis Hughes with David Case (virtual)  
Monica Serban with Betsy Goldsmith

**12:00 - 1:30 p.m.** LUNCH: Participants & Guests (Pavilion)  
UM VP for Research & Creative Scholarship, EAC, IAC - Private Lunch (BCC)

**1:30 - 2:30 p.m.** OPEN SESSION (Blackfoot Conference Center): Core Facility Presentations  
*Questions are reserved for the Q&A at the end of the second session.*

**1:30 - 1:45 p.m.** Steve Sprang, CBSD Associate Director, Core Financial Overview

**1:45 – 2:00 p.m.** Levi McClelland, ISBC Manager

**2:00 – 2:15 p.m.** Sandy Ross, BCRL Director (virtual) and Matt Sydor, Interim Manager (virtual)

**2:15 – 2:30 p.m.** Dave Holley, MCCF Manager (virtual)

**2:30 - 2:45 p.m.** Session break for informal discussion (Blackfoot Conference Center)

**2:45 - 3:30 p.m.** OPEN SESSION (Blackfoot Conference Center): Core Facility Presentations

**2:45 - 3:00 p.m.** Eric John, Graduate Student, SMXDC

**3:00 – 3:10 p.m.** Miyuki Hayashi, MSCF Graduate Core Fellow

**3:10 – 3:30 p.m.** Core Q&A

**3:30 - 4:00 p.m.** Poster Session Participant set up if didn't occur earlier and break time.

**3:30 - 4:00 p.m.** PRIVATE SESSION Core Facility Directors and Managers with EAC

- MSCF Deborah Wuttke (virtual)
- ISBC Betsy Goldsmith
- MCCF David Case (virtual)
- BCRL Suzanne Scarlata (virtual)

**4:00 - 6:00 p.m.** OPEN SESSION: Poster Session & Refreshments (Pavilion)

Carly Anderson	Modulation of dendritic spine density in CA1 hippocampal neurons by GluN3A-containing NMDA receptors
Jasper Aquino	Methoxyamino and 2-aminopyridyl functionalized scaffold as a tool for systematic investigation of $\beta$ -glucan binding and Dectin-1 activation
Elizabeth Arrigali	Novel Topical Therapeutics Against Hearing Loss
Sofia deMare	Cryo-EM studies of fibronectin for structural determination
Ariel Frederick	Effect on Intrinsic Peroxidase Activity of Substituting Coevolved Residues from omega-loop C of Human Cytochrome c into Yeast Iso-1-Cytochrome c
James Lotti	Teasing apart Binding Affinity and efficacy for NMDA receptor ligands
Michelle Nemetchek	Distinct coactivator structural classes reveal a new paradigm of nuclear receptor activation
Precious Ann Nepomuceno	The Effect Of Interdomain Interactions On The Structure And Stability Of The Eleventh Type Iii Domain From Human Fibronectin
Elizabeth Sather	Biased Agonism in Farnesoid X Receptor
Luke White	Innate immune protein RIOK3 is regulated at the splicing level by TRA2-B during Rift Valley fever virus infection

**6:00 p.m.** Keynote Dinner (Pavilion)

**7:00 p.m.** Keynote Talk (Pavilion)

**Keynote Speaker:** Steve Sprang, Associate Director of the Center for Biomolecular Structure and Dynamics (CBSD), University of Montana.

**Title:** *How Synembrin talks to a G protein: every method tells a story*

## Sunday, Sept. 19, 2021

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**7:00 - 9:00 a.m.** Breakfast (Great Hall, Main Lodge)

**8:00 a.m. - 12:00 p.m.** Check out (Main Lodge)

**9:00 - 10:30 a.m.** PRIVATE SESSION (Blackfoot Conference Center)  
EAC's final evaluation meeting to discuss their annual report letter

**10:30 am** PRIVATE SESSION (Blackfoot Conference Center)  
EAC meet with CBSD Director and Associate Director to discuss their evaluation of progress, annual report and recommendations