

November 2020

Congratulations to **Rachel Rucker** (Medical Biology; SPURA 2018) on receiving a mini-grant from the USD Council on Undergraduate Research and Creative Scholarship.

Congratulations to **Callie Wersal** (Biology; SPURA 2019) and **Savannah Lukkes** (Medical Biology; SPURA 2020) on their presentation titled '*Opioid Related Emergency Department Utilization in South Dakota.*' At the 2020 Symposium on Substance Use Research. Rural Drug Addiction Research Center (RADR), Lincoln, Nebraska, November 2020, under the mentorship of Dr. Jewel Shepherd (Business).

October 2020

Congratulations to **Madeleine Nelson** (Medical Biology; SPURA 2019) on her accepted abstract to the Midlands Society for Physiological Sciences, which combined her work from the SPURA and U.Discover program with Dr. Doug Martin (BBS). She presented her work at a joint meeting of the Iowa Physiological Society and the Midlands Society for Physiological Sciences and was awarded third place in the undergraduate category for her presentation entitled "*Impact of Synthetic Cannabinoids on Cardiovascular Health.*"

May 2020

Congratulations to 2017 SPURA alumni **Chesney Arend** (Medical Biology; Baugh Lab) on being selected as a staff writer for the South Dakota Law Review and on her internship in the legal department at the South Dakota Trust Company!

April 2020

Congratulations to 2018 SPURA Alumni **Rachel Rucker** (Medical Biology; Burrell Lab) on her presentation at the 2020 IdeaFest!

Rucker RA, Kabeiseman EJ, Paulsen RT, Miskimins R, and Burrell BD. *Investigating the Endocannabinoid System to Create a New Chronic Pain Treatment.* Poster session presented at: IdeaFest; 2020, April 7-8; Vermillion, SD (Virtual).

Congratulations to 2018 SPURA Alumni **Conrad Mohr-Eymer** (Chemistry; Baugh Lab) on his presentation at the 2020 IdeaFest!

"A bird in the hand is worth .03746: A tri-phasic delay discounting study." Poster session presented at: IdeaFest; 2020, April 7-8; Vermillion, SD (Virtual).

March 2020

Congratulations to 2018 SPURA Alumni **Rachel Rucker** (Medical Biology; Burrell Lab) on her presentation at the 2020 South Dakota Student Research Poster Session!

Rucker RA, Kabeiseman EJ, Paulsen RT, Miskimins R, and Burrell BD. *Investigating the Endocannabinoid System to Create a New Chronic Pain Treatment.* Poster session presented at: 2020 South Dakota Student Research Poster Session; 2020, March 4; Pierre, SD

Congratulations to 2018 SPURA Alumni **Rachel Rucker** (Medical Biology; Burrell Lab) on her presentation at the Upper Midwest Honors Conference!

Rucker RA, Kabeiseman EJ, Paulsen RT, Miskimins R, and Burrell BD. *Investigating the Endocannabinoid System to Create a New Chronic Pain Treatment*. Poster session: Upper Midwest Honors Conference; 2020, March 27-29; Bemidji, MN.

Congratulations to 2020 SPURA Alumni **Joel Stroman** (Medical Biology) who worked with Dr. Christopher Berghoff (Psychology) and to 2018 SPURA Alumni **Conrad Mohr-Eymer** (Chemistry) who worked with Dr. Lee Baugh (BBS) on their acceptance to the University of South Dakota Sanford School of Medicine MD program.

February 2020

Congratulations to 2018 SPURA Alumni **Rachel Rucker** (Medical Biology; Burrell Lab) on being selected as a 2020 Harvard-Amgen Scholar!

January 2020

Congratulations to **Brittany Bamberg** (Mayhan Lab), **Conrad Mohr-Eymer** (Baugh Lab), **Callie Wersal** (Shepherd Lab) and **Carly Cooper** (Baugh Lab) for making the 2019 Academic Honors List.

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November 2019

Congratulations to **Rachel Rucker** (Burrell Lab), **Carly Cooper** (Baugh Lab), **Conrad Mohr-Eymer** (Baugh Lab), and **Brittany Bamberg** (Mayhan Lab) on receiving mini-grants from the USD Council on Undergraduate Research and Creative Scholarship!

October 2019

Congratulations to **Brittany Bamberg** and **Rachel Rucker**!

Brittany and Rachel were selected as recipients of the 2019 Undergraduate Research Excellence Awards for their respective work "*The Effects of In Utero Exposure to Alcohol*" under the mentorship of Dean William Mayhan, and "*Diacylglycerol Lipase: Does Mutation of the Catalytic Region Influence Membrane Localization?*" with Dr. Brian Burrell.

Congratulations to all the Presenters at the 2019 Faculty for Undergraduate Neuroscience Symposium (part of the 49th Annual Society for Neuroscience Conference) in Chicago, IL!

- **Rachel Rucker** (Burrell Lab) '*Identification of enzymes involved in 2-Arachidonoylglycerol synthesis and metabolism in *Hirudo verbana*.*'

-**Conrad Mohr-Eymer** (Baugh Lab) '*Time for a change? Brain activity and behavioral performance reveal different dynamics at short, intermediate, and long delay intervals during a delay discounting task*'

-**Brittany Bamberg** (Mayhan Lab) '*Consequences of In Utero Exposure to Alcohol*'

-**Madeleine Nelson** (Martin Lab) '*Mechanisms of cardiovascular responses to synthetic cannabinoids*'

-**Carly Cooper** (Baugh Lab) '*The rhythm of the night: An examination of the role of the human circadian system on decision making and motor performance*'

Former SPURA student (2016) and class of 2021 Medical Student **Geralyn Palmer** participated in a health screening fair at Ft. Thompson, taking part of the Frontier and Rural Medicine Program immersion experience, gaining experience in the practice of medicine in rural communities in South Dakota

Congratulations to 2015 SPURA Alum **Riley Paulson!**

Congratulations to Riley Paulson and Dr. Brian Burrell for their paper 'Comparative studies of endocannabinoid modulation of pain' recently published in the Philosophical Transactions of the Royal Society B Biological Sciences 374(1785):20190279

September 2019

Congratulations to 2018 SPURA Alumni **Rachel Rucker** (BBS; Burrell Lab) for being awarded the Nu Rho Psi Poster with Distinction for her poster 'Identification of enzymes involved in 2-Arachidonoylglycerol synthesis and metabolism in *Hirudo verbana*' at the 2019 Midwest Regional Undergraduate Research Symposium in Neuroscience in Rock Island, IL.

August 2019

Congratulations to **Rachel Rucker** (Burrell Lab) on presenting her work at the Heritage Club Luncheon! Rucker RA, Kabeiseman EJ, Paulsen RT, Miskimins R, and Burrell BD. Identification of enzymes involved in 2-Arachidonoylglycerol synthesis and metabolism in *Hirudo verbana*. Poster session presented at: Heritage Club luncheon; 2019 August 29; Vermillion, SD

Thank you to all of the participants in the 2019 Annual Center for Brain and Behavior Research Symposium!

-**Brittany Bamberg** (Medical Biology; Mayhan Lab) presented her poster 'Consequences of *In Utero* Exposure to Alcohol' and was awarded 1st Place Poster in Undergraduate Division

-**Rachel Rucker** (Medical Biology; Burrell Lab) presented her poster 'Identification of enzymes involved in 2-Arachidonoylglycerol synthesis and metabolism in *Hirudo verbana*' and was awarded 2nd Place Poster in Undergraduate Division

-**Trevor Allen** (Health Sciences) presented his work with Dr. Cliff Summers (Biology) titled: 'Antidepressive effects of a potent 5-HT_{2A} receptor agonist, 2,5 -dimethoxy-4-iodoamphetamine (DOI)'

-**Phil Dohn** (Medical Biology) presented his work with Dr. Lisa McFadden (BBS) titled: 'Investigating mental health crises in the state of South Dakota through Syndrome Surveillance'

-**Dylan Stahly** (Biology) presented his work with Dr. Douglas Peterson (Psychology) titled: 'Stress and cognitive functioning: The evolutionary benefits of anxiety'

-**Madeleine Nelson** (Medical Biology) presented her work with Dr. Douglas Martin (BBS) titled: 'Mechanisms of cardiovascular responses to synthetic cannabinoids'

-**Carly Cooper** (Medical Biology) presented her work with Dr. Lee Baugh (BBS) titled: 'The rhythm of the night: An examination of the role of the human circadian system on decision making and motor performance'

-**Noel Tolvanen** (Medical Biology) presented her work with Dr. Hongmin Wang (BBS) titled: 'The Effects of delta-opioid receptor agonist on Alzheimer's Disease'

-**Callie Wersal** (Biology) presented her work with Dr. Jewel Shepherd (Business) titled 'ED utilization for substance use, abuse and addiction'

July 2019

2019 SPURA student **Carly Cooper** (Medical Biology) presented her research done under the mentorship of Dr. Lee Baugh (BBS) titled: "*The Rhythm of the Night: An Examination of the Role of the Human Circadian System on Decision Making and Motor Performance*" at the SD EPSCoR 2019 Undergraduate Research Symposium in Sioux Falls.

May 2019

Congratulations to **Rachel Rucker** (SPURA 2018; Burrell Lab), who was just awarded the **Barry Goldwater Scholarship and Excellence in Education Foundation!**

Rachel's application emphasized her past and continuing neuroscience research. Rachel remains active in CBBRe and she has plans to continue with neuroscience in grad school.

Congratulations to **Conrad Mohr-Eymer** (SPURA 2018; Baugh Lab), who was awarded the POLYED Undergraduate Award for Achievement in Organic Chemistry, the Undergraduate Award in Analytical Chemistry, and the Nelson Shield Award. These awards are provided by the POLYED Center, designated for outstanding performance by an undergraduate chemistry major in the two-semester organic sequence, and the Nelson Shield Award is provided to the Chemistry students who have the highest average GPA in their work during their Junior year.

April 2019

Thank you to all the students that presented at the 2019 IdeaFest!

Rachel Rucker (Medical Biology) presented her work done under the mentorship of Dr. Brian Burrell (BBS) titled: '*Sites for endocannabinoid signaling related to nociception*'

Brittany Bamberg (Medical Biology) presented her work done under the mentorship of Dean William Mayhan (BBS) titled: '*Consequences of In Utero Exposure to Alcohol*'

Conrad Mohr-Eymer (Chemistry) presented his work done under the mentorship of Dr. Lee Baugh (BBS) titled '*A bird in the hand is worth .03746: A tri-phasic delay discounting study*'

March 2019

Congratulations to 2019 SPURA Alumni **Brittany Bamberg** who worked with Dr. William Mayhan (BBS) on her acceptance to the University of South Dakota Sanford School of Medicine MD program.

February 2019

Congratulations to 2015 SPURA Alumni **Riley Paulsen**, who was selected to participate in the NIH's Graduate Summer Opportunities to Advance Research (G-SOAR), a 10 week internship in translational research conducted at NIH laboratories. Riley is only one of 18 graduate students from across the country to be selected to this program. Congratulations Riley!