

Hunter J. Ries

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Education

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| 2017 – 2021 | University of Wisconsin-Madison B.S. in Microbiology | Madison, WI, USA |
| 2021 – Present | University of Wisconsin-Madison Ph.D. in Cellular and Molecular Pathology | Madison, WI, USA |

Honors and Awards

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| 2021 | Cellular and Molecular Pathology T32 , NIGMS NIH |
| 2020 | Best Poster Presentation , ASBMB Molecules in the Midwest Conference |
| 2019 | Food Research Institute Research Scholar , UW-Madison FRI |
| 2019 | Margaret E. and Allard Smith Undergraduate Scholarship , UW-Madison |
| 2017 | Top Five Presenter , UW-Madison Undergraduate Speech Conference |

Research Experience

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| August 2021 – Present | University of Wisconsin-Madison Graduate Research Assistant Department of Pathology and Laboratory Medicine Department of Pathobiological Sciences, Thomas Friedrich Lab <ul style="list-style-type: none">– Interrogating viral pathogenesis at the molecular and cellular level | Madison, WI, USA |
| April 2020 – May 2021 | University of Wisconsin-Madison Undergraduate Research Assistant Department of Pathobiological Sciences, Thomas Friedrich Lab <ul style="list-style-type: none">– Dissected Zika virus evolution with Illumina deep-sequencing | Madison, WI, USA |
| Sept 2018 – May 2020 | University of Wisconsin-Madison Undergraduate Research Assistant Department of Medicine, Rob Striker Lab <ul style="list-style-type: none">– Developed biochemical assays to analyze phosphatase kinetics | Madison, WI, USA |
| May 2019 – Aug 2019 | FRI Research Scholar Department of Medicine, Rob Striker Lab <ul style="list-style-type: none">– Designed and executed a high-throughput 100,480 small-molecule screen | |
| May 2018 – Aug 2018 | SSM Health at Agnesian HealthCare Research Associate Treffert Center <ul style="list-style-type: none">– Characterized the etiology and attributes of sudden savant syndrome | Fond du Lac, WI, USA |

Publications

1. Treffert, D.A. and **Ries, H.J.** (2021). *The Sudden Savant: A New Form of Extraordinary Abilities*. Published in the *Wisconsin Medical Journal* April 2021.

Poster Presentations

1. "Discovery of *M. tuberculosis* phosphatase inhibitors using high-throughput small molecule screening" Perlman Symposium on Antibiotic Discovery and Development, Madison, WI, USA (Cancelled, 01 May 2020)
2. "Teaching old drugs new tricks: β -lactams and phosphatase inhibitors" UW-Madison CALS Undergraduate Research Symposium, Madison, WI, USA (Cancelled, 15 April 2020)
3. "Discovery of *M. tuberculosis* phosphatase inhibitors using high-throughput small molecule screening" ASBMB Molecules in the Midwest Conference, Madison, WI, USA (07 March 2020, received "**Best Poster Presentation Award**")
4. "Computational and biochemical analysis of PstP, a *Mycobacterium tuberculosis* phosphatase" UW-Madison Undergraduate Biology Conference, Madison, WI, USA (30 April 2019)

Oral Presentations

1. "Teaching old drugs new tricks: β -lactams and phosphatase inhibitors" UW-Madison CALS Undergraduate Research Symposium, Madison, WI, USA (Cancelled, 15 April 2020)
2. "Elucidating novel inhibitors for *S. aureus* phosphatase StP1 and *M. tuberculosis* phosphatase PstP" UW-Madison Microbiology Club Undergraduate Research Symposium, Madison, WI, USA (21 November 2019)
3. "A high-throughput assay for biochemical testing of computationally derived *Listeria monocytogenes* phosphatase inhibitors" Food Research Institute Undergraduate Research Symposium, Madison, WI, USA (26 July 2019)
4. "Drowsy, Deadly Doctors: Limiting Resident Hours Will Save Lives" UW Undergraduate Speech Conference, Madison, WI, USA (01 December 2017, received "**Top Five Presenter Award**")

Media Releases

1. "Fond du Lac County Health Department cautions residents to check carbon monoxide detectors and reduce exposure to carbon monoxide" Fond du Lac County Health Department, Fond du Lac, WI, USA (16 July 2018)
2. "Fond du Lac County Health Department is urging residents to avoid and wild animals in order to reduce possible exposure to the rabies virus" Fond du Lac County Health Department, Fond du Lac, WI, USA (05 July 2018)
3. "Fond du Lac County Health Department is now accepting dead birds to be tested for West Nile virus" Fond du Lac County Health Department, Fond du Lac, WI, USA (06 June 2018)

Involvement

- 2021 – Present American Society for Virology
2017 – 2021 American Society for Biochemistry and Molecular Biology – UW-Madison Chapter
2017 – 2021 American Society for Microbiology – UW-Madison Microbiology Club