



MMI 291 Seminar Series

Current Theme: Interdisciplinary Research

Fall Quarter 2022 – CRN 41473

Friday Seminar – 12:10-1 p.m.

“Host-microbe interactions in the inflamed gut”

Research

Sebastian Winter received his M.Sc. in Biochemistry from the University of Bayreuth, Germany, in 2006. He then started his Ph.D. thesis research and, under the co-mentorship of Dr. Holger Rüssmann (University of Munich) and Dr. Andreas Bäumlér (UC Davis), studied how *Salmonella enterica* serovar Typhi, the causative agent of typhoid fever, can evade recognition by the innate immune system. In 2010, Sebastian Winter obtained his Ph.D. (Dr. rer. biol. hum.) from the University of Munich, Germany. He then continued his postdoctoral studies in the laboratory of Andreas Bäumlér at UC Davis where he investigated alterations of the intestinal microbiota during episodes of inflammation. In 2013, Dr. Winter joined the [Microbiology Department](#) at UT Southwestern and was named a UT Southwestern [Endowed Scholar](#). In 2014, he received an [ICAAC Young Investigator Award](#) from the American Society for Microbiology. He was named a Research Scholar by the American Cancer Society in 2017. In 2018, Dr. Winter became a BWF Investigator in the Pathogenesis of Infectious Diseases. His independent research group is investigating host-microbe and microbe-microbe interactions in the inflamed gut, with a particular interest in inflammatory bowel disease and infection with enteric pathogens. In summer 2022, Dr. Winter joined the Infectious Diseases Department at UC Davis Health.

His lab studies the chemical biology of host-microbe interactions. Focus areas of his research are metabolic interactions between the host and its microbiome in settings of gastrointestinal inflammation, such as enteric infections, inflammatory bowel disease, and colitis-associated colorectal cancer.

Publications

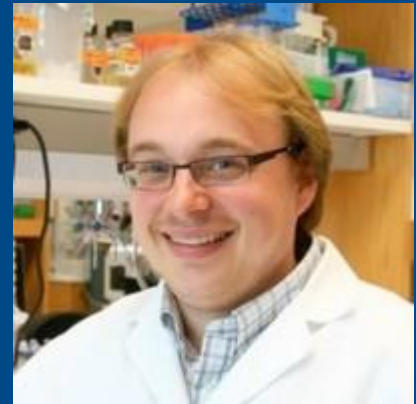
Wenhan Zhu, Maria G. Winter, Luisella Spiga, Daniel P. Beiting, Lora V. Hooper, **Sebastian E. Winter** Cell Host Microbe. 2020 Mar 11;27(3):376-388.e8.

<https://doi.org/10.1016/j.chom.2020.01.010>

Rachael B. Chanin, Maria G. Winter, Luisella Spiga, Madeline P. Smoot, Renato L. Santos, **Sebastian E. Winter** Cell Host Microbe. 2020 Sep 30:S1931-3128(20)30506-0

<https://doi.org/10.1016/j.chom.2020.09.005>

October
21



Sebastian E. Winter, Ph.D.
Associate Professor
Internal Medicine: Division of
Infectious Diseases
University of California
Davis Health

**October 21, 2022
12:10–1 p.m.
ZOOM Meeting**

Medical Microbiology
& Immunology
School of Medicine

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We hope to see you there!