

7th SUNRISE WEBINAR

Wednesday, March 19th, 2025

2:00pm (CET) / Login: <https://umontpellier-fr.zoom.us/j/91357218229>



Dietary control of intestinal stem cells in physiology and disease



Dr Omer H. Yilmaz, MD, PhD

Associate Professor of Biology

MIT, Cambridge, MA, USA

Koch Institute for Integrative Cancer Research

Biography

Ömer Yilmaz is the Eisen and Chang Career Development Associate Professor of Biology at the Koch Institute for Integrative Cancer Research at MIT and a gastrointestinal pathologist at the Massachusetts General Hospital and Harvard Medical School. He is a graduate of the University of Michigan Medical School, where he performed his thesis work under the guidance of Professor Sean Morrison. He also spent three years as a postdoctoral fellow in the laboratory of Dr. David M. Sabatini. In 2014 he established his lab, which focuses on understanding how intestinal stem cells and their microenvironment adapt to diverse diets in the context of tissue regeneration, aging, and cancer initiation and progression.

Selected publications

Sox17 enables immune evasion of early colorectal adenomas and cancers. **Nature 2024**

Lymphatics and fibroblasts support intestinal stem cells in homeostasis and injury. **Cell Stem Cell 2022**

Dietary suppression of MHC class II expression in intestinal epithelial cells enhances intestinal tumorigenesis. **Cell Stem Cell 2021**

Ketone Body Signaling Mediates Intestinal Stem Cell Homeostasis and Adaptation to Diet. **Cell 2019**

