



Vineyards in Napa, California (Photo: Reid Griggs).

FOOD SYSTEMS BIOTECHNOLOGY

Developing approaches to study microbial ecosystems at the interface of foods.



Research Areas

- Food biotechnology;
- Microbial ecology;
- Bioinformatics and software engineering;
- Food fermentation;
- Human microbiome.

Regions

Switzerland, USA, and global.

Partners

University of Basel; University of Lausanne; Changins; Unispital Basel; University of California; Davis; and Rutgers University.

Contact

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Contribution to the WFSC

The Food Systems Biotechnology group develops and utilizes computational and experimental approaches to study microbial ecosystems at the interface of foods and human health, with the ultimate goal of engineering microbial communities to promote food quality and security, and to optimize functional roles in human digestion and health. This includes characterizing the temporospatial organization of microbiomes in food production systems both pre- and post-harvest, as well as establishing a predictive understanding of the interactions between diet, the gut microbiome, and human health.



Prof. Nicholas Bokulich

