

Tuesday 26<sup>th</sup> April 2022, 4.15 pm – 5.15 pm

### Smart Farming – Use of Microbiomes in Agriculture

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**ABSTRACT.** Agricultural production faces many challenges including, increased population growth, global warming as well as the need to reduce environmental pollution and the carbon footprint of our society. Microbial or microbiome-based approaches may substantially contribute to secure a more sustainable primary production as well as to assure food quality. Microbe-assisted crop production requires the integral management of the 'microbes', the 'plants' and the 'soil' in the agroecosystem. In this seminar, I will provide an overview of opportunities of agroecosystem management and I will illustrate them with practical examples of mostly own plant microbiome research.

**BIO.** Dr. Klaus Schläppi is Professor at the University of Basel in the Environmental Sciences Department and Group leader at the University of Bern in the Institute of Plant Science. His main interest is the interaction of plants with their microbiome. His group investigates the fundamental questions of how plants take influence on their root and rhizosphere microbiome and how these microbes contribute to plant growth and disease protection.

You are welcome to attend in person in Mittelstrasse 43, room 224 or virtually in the [Zoom seminar room](#) (Meeting ID: 661 2561 8101, psw: 123456).