

BioSketch

Urs Greber has been trained in cell and molecular biology and virology at ETH Zurich, the Scripps Research Institute La Jolla, and Yale University, USA. He was a START fellow of the Swiss National Science Foundation, became Assistant Professor at the University of Zurich (UZH), and was promoted to Associate Professor and Full Professor. Urs Greber is an elected member of the European Molecular Biology Organisation (EMBO), and a cofounder of the Biotech Start-Up company 3V-Biosciences (Sagimet Biosciences). He is an expert in cell biology and molecular genetics of virus infections, with pioneering contributions in virus-receptor interactions, virus entry and uncoating, membrane traffic, cytoplasmic transport and DNA import into the nucleus.

He published over 140 peer reviewed papers and reviews in journals, such as Cell, Nature Cell Biology, Nature Communications, Nature Nanotechnology, Science Advances, Cell Host & Microbes, iScience, Journal of Cell Biology, EMBO Journal, PNAS USA, ACS Nano, ACS Infectious Diseases, Cell Death & Disease, Journal of Cell Science, PLoS Pathogens, Journal of Virology, Cellular Microbiology, Traffic, PLoS ONE, mSphere, Biophysical Journal and Antimicrobial Agents and Chemotherapy.

His recent work expands towards innate immunity, cell-cell transmission of human DNA and RNA viruses, and infection mechanisms in virus transmission between cells. Studies include adenovirus, rhinovirus and more recently coronavirus, and employ a range of procedures, such as system-wide analyses of proteins, lipids and nucleic acids in organelles, cells and micro-tissue. Advanced light and electron microscopy, biochemical and cell biological tests, systems profiling and numerical models are designed towards answering a paramount question in biology and medicine, the molecular underpinning of cell-to-cell variability in health and disease.