

19. September 2024, 16:30 – 19:30 - room H810 Murtenstrasse 35, 3008 Bern

This symposium will cover research from basic science to clinical and translational studies. Invited experts will discuss the challenges associated with ureteral obstructions, the limitations of current treatments, and the latest technologies that have the potential to enhance patient care.

Join us to gain insights and connect with leading professionals in the field!
Attendance is free, [please register here.](#)

16:30	Francesco Clavica Opening and Welcome
16:45	Beat Roth and Daniel Fuster NOSTONE clinical trial: introduction and results
17:15	Dirk Lange Ureteral Stents: Stent Induced Ureteral Changes and Novel Coatings
17:45	Coffee break
18:00	Francesco Clavica Innovative Fluid Dynamics Approaches to Combat Biofilm and Encrustation
18:30	Eleonora Secchi Effect of Flow on Bacterial Attachment and Biofilm Formation
19:00	Closing and Apéro

Speakers:



Beat Roth, Department of Urology, Inselspital Bern

Beat Roth is full Professor and director of the Department of Urology (Inselspital Bern). He completed his medical studies at the University of Basel where he also received his doctorate. His research interests focus on clinical and translational research in bladder cancer and clinical research in the field of urolithiasis.



Daniel Fuster, Department of Nephrology, Inselspital Bern

Daniel Fuster is Associate Professor at the University of Bern. His research interests include physiological and pathophysiological aspects of sodium/hydrogen exchanger isoforms, renal tubular disorders and kidney stone disease. He is among the principal investigators of Swiss Kidney Stone Cohort and NOSTONE clinical trial..



Dirk Lange, Department of Urologic Sciences, University of British Columbia

Dirk Lange is Associate Professor at University of British Columbia and Director of Basic Science Research at the Stone Center of Vancouver General Hospital. His research primarily focuses on ureteral stent material, design, stent complications and novel anti-fouling coatings.



Eleonora Secchi, Department of Civil Engineering, ETH Zürich

Eleonora Secchi leads the BioMatter Microfluidics group at ETH Zürich. Her research, at the intersection of soft matter physics, fluid dynamics, and microbiology, focuses on understanding the physical mechanisms and environmental factors that control bacterial surface colonization and biofilm formation in fluids and on moist surfaces.



Francesco Clavica, ARTORG Center for Biomedical Engineering Research, University of Bern

Francesco Clavica leads the Urogenital Engineering Group of the ARTORG Center. His research primarily focuses on developing innovative medical devices for treating urological disorders and on modeling urine flow in the urinary tract through both experimental and computational methods.