

CURRICULUM VITAE



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Title	M.D.
Academic Appointment	PostDoc / Project Leader Neuro-Urology Research Spinal Cord Injury Center Balgrist University Hospital
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Research Interests, fields of expertise	<ul style="list-style-type: none">▪ Neurophysiology of human lower urinary tract function and dysfunction▪ Urodynamics▪ Assessment of and influence on bladder sensations▪ Supraspinal representation and control of the human lower urinary tract
Languages	German, English
Membership	<ul style="list-style-type: none">▪ European Association of Urology (EAU)▪ International Continence Society (ICS)
Stipends and Awards	<ul style="list-style-type: none">▪ Best Poster Presentation in a Poster Session during the 23rd Annual EAU Congress 2008 in Milan, Italy for the presentation on “Cortical representation of bladder sensations: does bladder cooling involve the same supraspinal network as bladder distension? – an fMRI study”

- Eugen-Rehfish-Preis for the scientific work about: “Does oral antimuscarinic treatment affect resting heart rate variability? A randomized placebo controlled trial with 4 & 8 mg tolterodine ER”, awarded on the annual meeting of the Forum Urodynamicum 2009 in Kassel, Germany.

Research Grant as Principle Investigator

Swiss National Science Foundation
 “Evaluation of new approaches in the treatment and neurophysiological assessment of healthy and impaired human lower urinary tract function” (CHF 375'000.00)

Reviewer

- The Journal of Urology
- Neurourology and Urodynamics
- World Journal of Urology
- Case Reports in Medicine
- Computer Methods and Programms in Biomedicine
- BJU international

Relevant Publications

Mehnert U, Birzele J, Reuter K and Schurch B. The effect of 100 units botulinum toxin type-A in the treatment of overactive bladder symptoms in multiple sclerosis patients – A pilot study. *J Urol* 2010; [in press]

Mehnert U, Michels L, Zempleni MZ, Schurch B and Kollias S. The supraspinal neural correlate of bladder cold sensation – An fMRI study. *Human Brain Mapping* 2010; [in press]

Schiffers M, Sauermann P, Schurch B and **Mehnert U**. The effect of tolterodine 4 and 8 mg on the heart rate variability in healthy subjects. *World J Urol* 2010; [epub ahead of print]

Zempleni MZ, Michels L, **Mehnert U**, Schurch B and Kollias S. Cortical substrate of bladder control in SCI and the effect of peripheral pudendal stimulation. *Neuroimage* 2010; 49: 2983-94.

Michels L, **Mehnert U**, Boy S, Schurch B and Kollias S. The somatosensory representation of the human clitoris: an fMRI study. *Neuroimage* 2010; 49: 177-84.

Mehnert U, Reitz A, Youssef SA and Schurch B. Proof of principle: The effect of antimuscarinics on bladder filling sensations in healthy subjects--a placebo controlled double blind investigation using 4 and 8 mg tolterodine extended release. *Neurourol Urodyn* 2010; 29: 464-9.

Mehnert U and Schurch B. [Botulinum toxin in nonneurogenic bladder dysfunction]. *Urologe A* 2009; 48: 233-44.

Mehnert U, Boy S, Widmer-Simitovic S, Reitz A and Schurch B. The facilitatory effect of duloxetine combined with pelvic floor muscle training on the excitability of urethral sphincter motor neurons. *Int Urogynecol J Pelvic Floor Dysfunct* 2009; 20: 659-66.

Mehnert U, Boy S, Schmid M, Reitz A, von Hessling A, Hodler J et al. A morphological evaluation of botulinum neurotoxin A injections into the detrusor muscle using magnetic resonance imaging. *World J Urol* 2009; 27: 397-403.

Mehnert U, Knapp PA, Mueller N, Reitz A and Schurch B. Heart rate variability: an objective measure of autonomic activity and bladder sensations during urodynamics. *Neurourol Urodyn* 2009; 28: 313-9.

Mehnert U, Boy S, Svensson J, Michels L, Reitz A, Candia V et al. Brain activation in response to bladder filling and simultaneous stimulation of the dorsal clitoral nerve--an fMRI study in healthy women. *Neuroimage* 2008; 41: 682-9.

Mehnert U, Reitz A, Ziegler M, Knapp PA and Schurch B. Does tolterodine extended release affect the bladder electrical perception threshold? A placebo controlled, double-blind study with 4 and 8 mg in healthy volunteers. *J Urol* 2007; 178: 2495-500.

Boy S, Schurch B, **Mehnert U**, Mehring G, Karsenty G and Reitz A. The effects of tolterodine on bladder-filling sensations and perception thresholds to intravesical electrical stimulation: method and initial results. *BJU Int* 2007; 100: 574-8.

Wilke HJ, **Mehnert U**, Claes LE, Bierschneider MM, Jaksche H and Boszczyk BM. Biomechanical evaluation of vertebroplasty and kyphoplasty with polymethyl methacrylate or calcium phosphate cement under cyclic loading. *Spine (Phila Pa 1976)* 2006; 31: 2934-41.

Collaborative Research

Department of Neuroradiology, University Hospital Zurich
(Prof. S. Kollias)