



Université catholique de Louvain
Secteur de la Santé



Laser Talks Conference

May, 4-6 2017

Auditorium de Visscher (ICP tower 74)

May, 4

13:00 Lunch
13:50 Welcome

Chair: André Mouraux

14:00 Painful or not? Electrophysiology and psychophysics to document somatic perceptions – *Luis Garcia-Larrea*
14:25 Peripheral mechanisms exert major influence on habituation to repeated laser heat pain – *Daniela Rosenberger & Wolfgang Greffrath*
14:50 Fibromyalgia and small fibers: loss of function or gain of function? – *Samar Hatem*
15:15 Pain catastrophizing and LEPs features in fibromyalgia patients – *Eleonora Vecchio*
15:40 Coffee-break

Chair: Ulf Baumgärtner

16:05 Assessing the correlation between motor and nociceptive cortex activation by concurrent Near Infrared Spectroscopy and CO2 LEP recording in fibromyalgia patients and controls – *Eleonora Gentile*
16:30 Transient changes in motor system triggered by the occurrence of a brief nociceptive stimulus – *Maxime Algoet*
16:55 Effects of conditioned pain modulation on the withdrawal pattern to nociceptive stimulation and auditory processing in humans – *Fabrizio Ariel Jure & Diana Torta*
17:20 Tempo-spatial acuity is lower in the nociceptive system than in the somatosensory system – *Steffen Frahm*

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May, 5

Chair: Rolf-Detlef Treede

- 09:00 Estimating membrane properties of large and small cutaneous nerve fibers
– *Carsten Dahl Mørch*
- 09:25 Alternative electrical impulse form for preferential activation of nociceptive
fibers – *Rosa Hugosdottir*
- 09:50 Pinprick-evoked brain potentials (PEPs) for assessing the functional status
of mechanical nociceptive pathways – *Emanuel van den Broeke*
- 10:15 Ultra-slow steady-state evoked potentials to explore the cortical responses
to the activation of slowly-adapting heat nociceptors – *André Mouraux*
- 10:40 Coffee-break

Chair: Luis Garcia-Larrea

- 11:05 Cold stimulations at 400° C/sec: technical characteristics and potential applications
of a novel functional exploration system – *André Dufour*
- 11:30 Characterizing cold-evoked brain potentials in healthy volunteers – *Roxane
de Keyser*
- 11:55 –
- 12:20 Lunch + optional Lab tour

Chair: Massimiliano Valeriani

- 14:00 Gamma band responses to painful laser stimulation: considerations on single
subject responses and muscle artefacts – *Enrico Schulz*
- 14:25 Intensity coding and somatotopy of gamma band oscillations following laser
and tactile stimulation – *Ulf Baumgärtner*
- 14:50 Gamma-band oscillations recorded from the human insula related to the
activation of the spinothalamic tract – *Giulia Liberati*
- 15:15 Functional correlation between the amygdala, posterior and anterior insulae
in response to nociceptive stimuli – *Hélène Bastuji*
- 15:40 Coffee-break

Chair: Marina de Tommaso

- 16:05 Cortical representation of laser-evoked nociception pre and post capsaicin
(TFR) – *Britta Kretzschmar & Philipp Wise*
- 16:30 Spinal inhibition of the nociceptive input by higher frequency non-painful
stimuli – *Massimiliano Valeriani*
- 16:55 The effect of spinal transcutaneous direct current stimulation on somatosensory
responses – *Cédric Lenoir*



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May, 6

Chair: Andrea Truini

- 09:00 Somatotopic analgesic effect of the abdominal acupuncture – *Costanza Pazzaglia – Massimiliano Valeriani*
- 09:25 Cortical modulation of nociception by galvanic vestibular stimulations: a laser evoked potential and behavioural study - *Koichi Hagiwara*
- 09:50 Spatial localization and brain responses to somatosensory stimulation are modulated during an augmented reality-based phantom limb illusion – *Federico Gabriel Arguissain*
- 10:15 Two lasers are better than one! Exploring the spatial perception of laser stimuli by means of temporal order judgment – *Valéry Legrain, Camille Vanderclausen, Marion Bourgois & Lieve Filbrich*
- 10:40 Coffee-break

Chair: Ole Kæseler Andersen

- 11:05 Empathy for pain in healthy subjects in a –twin-type-LEP setting – *Marina de Tommaso*
- 11:30 How to predict pain in diabetic neuropathy – *Silvia La Cesa*
- 11:55 Nociceptive system evaluation in patients with non-suicidal self-injury syndrome – *Caterina Leone*
- 12:20 A neurophysiological study of atypical trigeminal neuralgia – *Giulia Di Stefano*
- 13:00 Lunch

Cédric Lenoir
+32 4 85 80 45 63
cedric.lenoir@uclouvain.be

Emanuel van den Broeke
+31 6 52 65 45 78
emanuel.vandenbroeke@uclouvain.be

André Mouraux
andre.mouraux@uclouvain.be