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Natalya Korogod

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University of Health Sciences (HESAV)
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Studies

2002 – 2006	**PhD in Neuroscience** within the International MSc/PhD "Neurosciences" Program (http://www.gpneuro.unigoettingen.de/), in the group of Synaptic Dynamics and Modulation, in the Department of Membrane Biophysics, *Max Plank Institute for biophysical chemistry*, Goettingen, Germany.
	Thesis: "Mechanisms of posttetanic potentiation at the calyx of Held synapse".
2001 – 2002	Master studies within the International MSc/PhD "Neurosciences" Program, *Georg-August University*, Goettingen, Germany.
1996 – 2001	Master/Bachelor studies in "Biotechnical and medical apparatus and systems" at the
	Oles Honchar Dnipropetrovsk National University, Dnipropetrovsk, Ukraine.

Career history

2017-current	Scientific collaborator (*adjointe scientifique A*) at the University of Applied Sciences and Arts Western Switzerland, HES-SO - HESAV, Department of Physical Therapy, Lausanne.
2016 – 2017	Scientific collaborator (*collaboratrice scientifique*) at the University of Applied Sciences and Arts Western Switzerland, HES-SO - HESAV, Department of Physical Therapy, Lausanne.
2014 – 2015	Maternity leave
2009 – 2014	Post-Doctorate in Neuroscience, *Brain and Mind Institute, EPFL*, Lausanne, Switzerland Research projects: Role of neuromodulation in cerebral cortex, correlative light and electron microscopy study of mouse somatosensory cortex, development of new electron microscopy protocols for research into native brain ultrastructure.
2009	Editorial assistant internship, *Frontiers Research Foundation, PSE*, Lausanne, Switzerland Project management course, Bern, Switzerland
2007 – 2009	Post-Doctorate in Neuroscience, at the *University of Lausanne*, Lausanne, Switzerland Research projects: Role of bidirectional communication between synapses and astrocytes in synaptic physiology

Scientific experiences

Research:	Neuroscience: Electrophysiology (patch-clamp techniques), Fluorescent Imaging techniques, Flash Photolysis, Immunohistochemistry, Electron microscopy techniques, Imaging data segmentation and analysis.
	Brain ultrastructure, connectomics, and synaptic physiology. Quantitative sensory testing, laser- and contact-heat evoked potentials.
	Scientific project coordination, training and education management, laboratory management, international program management, scientific writing and editing, journal management. Clinical project conduction and management.

Administrative and Scientific Functions

Extramuros

Member of the European Medical Writing Association (2014)

Languages

Russian, Ukrainian, French, English and German.

Prizes and Awards

Graduated with honors in Master/Bachelor degree in “Biotechnical and medical apparatus and systems”, Dnipropetrovsk National University, Dnipropetrovsk, Ukraine.

Ongoing projects

2019 – 2020 Effects of therapeutic body wraps on sensory modalities in healthy participants

2018 – 2019 Validation of the French translation of the short version of Örebro Musculoskeletal Pain Screening Questionnaire for predicting chronicity in patients with acute and subacute low back pain

2014 – 2017 ‘Brain evoked potentials and quantitative sensory testing (QST) and their contribution to sensory assessment of patients with and without pain after spinal cord injury: A feasibility study’. E. Opsommer (HESAV), G. Landmann (Center for Pain Medicine, Nottwil), and N. Korogod (HESAV); (principal investigator: E. Opsommer).

2016 – 2018 A systematic review ‘Mental practice for chronic pain in people with spinal cord injury’.E. Opsommer and N. Korogod (HESAV).

Peer-reviewed articles

1. The list of publications and communications is available online at the following link:

   http://www.hesav.ch/docs/default-source/recherche-et-developpement-docs/publications/korogod-natalya.pdf?sfvrsn

2. Opsommer E, Chevalley O, Korogod N. Motor imagery for pain and motor function after spinal cord injury: a systematic review. *Spinal Cord*. 2020;58(3):262-274.

3. Opsommer, E., Korogod, N., Stockinger, L. & Landmann, G. (2020). Diagnostic accuracy of brain evoked potentials and quantitative sensory testing for neuropathic spinal cord injury pain (preparation).

4. Korogod, N., Nonclercq, O., Berquin, A. & Opsommer, E. (2019). Validation of the French translation of the short version of Örebro Musculoskeletal Pain Screening Questionnaire for predicting chronicity in patients with acute and subacute low back pain (in preparation).

5. Lheureux, A., Nonclercq, O., Mathias, J-L., Korogod, N., Opsommer, E. & Berquin, A. (2018). Comment évaluer le risque de chronicisation d’une lombalgie ? Louvain Medical.

6. Opsommer, E., & Korogod, N. (2017). Mental practice for chronic pain in people with spinal cord injury: a systematic review protocol. JBI Database System Rev Implement Rep.

7. Opsommer, E., Zwissig, C., Korogod, N., & Weiss, T. (2016). Effectiveness of temporary deafferentation of the arm on somatosensory and motor functions following stroke: a systematic review. JBI Database System Rev Implement Rep, 14(12), 226-257.

8. Korogod N, Petersen C, Knott G. (2015) Ultrastructural analysis of adult mouse neocortex comparing aldehyde perfusion with cryo fixation**.** eLife.

9. Andres B, Kröger T, Briggmann KL, Denk W, Korogod N, Knott G, Köthe U, Hamprecht FA. (2012) Globally Optimal Closed-Surface Segmentation for Connectomics. ECCV.

10. Lou X, Korogod N, Brose N, Schneggenburger R. Phorbol esters modulate spontaneous and Ca2+-evoked transmitter release via acting on both Munc13 and protein kinase C. (2008) J. Neuroscience.

11. Korogod N, Lou X and Schneggenburger R. (2007) Posttetanic potentiation critically depends on an enhanced Ca2+ sensitivity of vesicle fusion mediated by presynaptic PKC. PNAS.

12. Korogod N, Lou X, and Schneggenburger R. (2005) Presynaptic Ca2+ requirements and developmental regulation of posttetanic potentiation at the calyx of Held. J. Neuroscience.

13. Kim MH, Korogod N, Schneggenburger R, Ho WK, and Lee SH. (2005). Interplay between Na+/Ca2+ exchangers and mitochondria in Ca2+ clearance at the calyx of Held. J. Neuroscience.

Recent papers at international and national conferences

1. Opsommer, E., Korogod, N., Stockinger, L., & Landmann, G. (2017). Abnormalities of brain evoked potentials in patients with and without neuropathic pain after spinal cord injury. Paper accepted at the NeuPSIG conference, Gothenburg, Sweden. http://neupsig2017.kenes.com/.

2. Landmann, G., Korogod, N., Stockinger, L., & Opsommer, E. (2017). Sensory abnormalities in unaffected area in individuals with spinal cord injury with and without neuropathic pain, a quantitative sensory testing study. Paper accepted at the NeuPSIG conference, Gothenburg, Sweden. http://neupsig2017.kenes.com/.

3. Korogod, N., Nonclercq, O., Berquin, A. & Opsommer, E. (2019). Validation of the French translation of the short version of Örebro Musculoskeletal Pain Screening Questionnaire for predicting chronicity in patients with acute and subacute low back pain**.** https://www.wcpt.org

4. Mental practice for chronic pain in people with spinal cord injury. (2019) E. Opsommer, O. Chevalley, N. Korogod *(Switzerland)* https://efic-congress.org/

5. Temperature effects on activity of primary nociceptor neurons under inflammatory conditions. (2019), S.Korogod, N. Korogod, E. Opsommer *(Ukraine)* https://efic-congress.org/