



Curriculum Vitae

HRZZ Form

PERSONAL INFORMATION

Name and surname **Sandra Kostić**
 Academic title Assistant Professor
 Year and institution of PhD obtained 2013, School of Medicine University of Split
 Address Home: Dubrovačka 49, Split; Office: Šoltanska 2, 21000 Split
 Phone +38521557810
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 E-mail sandra.kostic@mefst.hr
 Personal web page
 Citizenship Croatian
 Date and place of birth 22. February 1983.

WORK EXPERIENCE¹ (CHRONOLOGICALLY²)

Date (from – until) 2009--
 Institution School of Medicine University of Split
 Position Research fellow, Department of Histology and Embryology
 Work field Pain research, teaching of histology and embryology

EDUCATION² (CHRONOLOGICALLY)

Date 2013
 Place Split
 Institution University of Split School of Medicine, doctoral program TRIBE (Translational Research in Biomedicine)
 Title of qualification awarded PhD (Neuroscience)
 Year 2008
 Place Zagreb
 Institution Faculty of Food Technology and Biotechnology, University of Zagreb
 Title of qualification awarded MSc (Biotechnology)

TRAINING (CHRONOLOGICALLY)

Year 2013
 Place Siena, Italy
 Institution University of Siena, Siena, Italy
 Work field European Pain School
 Date 2011, 2012
 Place Wisconsin, USA

^{1,2,3} Please add rows to enter all required information

* all information in the document should be entered chronologically – from the most recent to the oldest

Institution Medical College of Wisconsin, Wisconsin, USA
 Work field Research scholar
 Department of Anesthesiology, MCW, WI, USA

Year 2009
 Place Trilj, Split
 Institution University of Split School of Medicine
 Work field Scientific Summer School in Trilj – Research Design and Workshop Teaching Method organized under the patronage of the Journal of Electrocardiology, Anatolian Journal of Cardiology and Croatian Medical Journal in collaboration with the University of Split, School of Medicine

LANGUAGES

MOTHER TONGUE croatian
ENGLISH LANGUAGE yes
 Speaking yes
 Writing yes
 Reading yes

RESEARCH AND OTHER PROJECTS

(CHRONOLOGICALLY; LEADER AND ASSOCIATES; FUNDING SOURCE)

- 2015 - - Participation in grant STRIPmed "Jačanje kapaciteta Sveučilišta u Splitu za istraživanje, razvoj i inovacije u području medicinske neuroelektronike",
- 2014 - - Participation in NZZ grant "Treating neuropathic pain with dorsal root ganglion stimulation – NeuroMod"
- 2011-2012 Participation in National Institutes of Health Grant NS-42150, Q. Hogan
- UKF 2A travel grant (amount awarded 60.000 kn)
- Participation in MZOS grant "Functional analysis of injured primary afferent neurons"
- Participation in MZOS program project grant "Nerve injury and neuropathic pain"
- Participation in NZZ grant „Molecular Memory in Diabetic Neuropathy“

TEACHING

(CHRONOLOGICALLY; UNDERGRADUATE, GRADUATE , POSTGRADUATE STUDY PROGRAMMES)

Undergraduate education

- Histology and Embryology:
 - Medicine
 - Dental Medicine
 - Pharmacy
 - Medical Studies in English
 - Health Sciences
- Elective course - "How to construct your own organ?"
 - "The puzzle of pain"
 - "Empathy and Pain"
 - "The Cochrane Library and Pain"
- How safe and effective are treatments used in medicine?

Graduate education

- Courses: - "How to construct your own organ?"
 - "The puzzle of pain"
 - "Experimental animals and animal models"
 - "Adventures of pain in the brain"
 - "Development of human spinal ganglia"
 - "Seeing invisible - the world under microscope"

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

(CHRONOLOGICALLY; HOME AND INTERNATIONAL ORGANIZATIONS AND BODIES)

- Member of Croatian Microscopic Society
- Member of Croatia Society of Anatomy, Histology and Embryology
- Member of International Association for the Study of Pain (IASP) (2010 -)
- Member of Croatian Society for Pain Management (Hrvatsko društvo za liječenje boli, HDLB) (2010 -)

- Member of Croatian Medical Association (Hrvatski liječnički zbor, HLZ)

RESEARCH EXPERIENCE

(CHRONOLOGICALLY; HOME AND INTERNATIONAL)

Extensive experience in immunofluorescence histology techniques. Routine usage of neuropathic pain models (spinal nerve ligation) and related behavioral testing procedures. Basic knowledge of electrophysiological techniques (patch clamp methodology) and other major research methodologies used in morphology and molecular biology laboratories.

PAPERS

(CHRONOLOGICALLY; RESEARCH BOOKS, HOME AND INTERNATIONAL RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEDINGS; PLEASE WRITE THEIR IMPACT FACTOR)

1. **Kostic S**, Pan B, Guo Y, Yu H, Sapunar D, Kwok WM, Hudmon A, Wu HE, Hogan QH. Regulation of voltage-gated Ca²⁺ currents by Ca²⁺/calmodulin-dependent protein kinase II in resting sensory neurons. *Mol Cell Neurosci*. 2014 Jul 24. pii: S1044-7431(14)00077-3. doi: 10.1016/j.mcn.2014.07.004. [Epub ahead of print]
2. Jelacic Kadic A, Boric M, **Kostic S**, Sapunar D, Puljak L. The effects of intraganglionic injection of calcium/calmodulin-dependent protein kinase II inhibitors on pain-related behavior in diabetic neuropathy. *Neuroscience*. 2014; 3;256:302-8.
3. **Kostic S**, Puljak L, Sapunar D. Attenuation of pain-related behaviour evoked by carrageenan injection through blockade of neuropeptide Y Y1 and Y2 receptors. *Europ J Pain*. 2013;**17**:493-504.
4. Ferhatović L, Banožić A, **Kostić S**, Tičinović TK, Novak A, Vrdoljak L, Heffer M, Sapunar D, Puljak L. Expression of calcium/calmodulin-dependent protein kinase II and pain-related behavior in rat models of type 1 and type 2 diabetes. *Anesth Analg*. 2013;116(3):712-21.
5. Ferhatovic L, Banozic A, **Kostic S**, Sapunar D, Puljak L. Sex differences in pain-related behavior and expression of calcium/calmodulin-dependent protein kinase II in dorsal root ganglia of rats with diabetes type 1 and type 2. *Acta Histochem*. 2013; 115(5):496-504.
6. Tang Q, Bangaru ML, **Kostic S**, Pan B, Wu HE, Koopmeiners AS, Yu H, Fischer GJ, McCallum JB, Kwok WM, Hudmon A, Hogan QH. Ca²⁺-Dependent Regulation of Ca²⁺ Currents in Rat Primary Afferent Neurons: Role of CaMKII and the Effect of Injury. *J Neurosci*. 2012;32(34):11737-49.
7. Basic Z, **Kostic S**, Kosta V, Carija R, Puljak L, Sapunar D. Posthemilaminectomy stabilization of the spine in a rat model of neuropathic pain reduces pain-related behavior. *Spine (Phila Pa 1976)*. 2012;37(22):1874-82.
8. Sapunar D, **Kostic S**, Banozic A, Puljak L. Dorsal root ganglion – a potential new therapeutic target for neuropathic pain. *J of Pain Research*. *J Pain Res*. 2012;5:31-8.
9. Sapunar D, Vukojevic K, **Kostic S**, Puljak L. Attenuation of injury-evoked pain-related behavior by blockade of neuropeptide Y Y2 receptor. *Pain* 2011;152; 1173-1181.
10. Fisher GJ, **Kostic S**, Nakai H, Park F, Sapunar D, Yu H, Hogan Q. Direct injection into the dorsal root ganglion: Technical, Behavioral and Histological observations. *Journal of Neuroscience Methods* 2011; 199(1):43-55.
11. Sapunar D, **Kostić S**, Banožić A, Ferhatović L, Puljak L. Pain research in Croatia: Analysis of bibliometric trends. *Periodicum Biologorum* 2011; 113(2):137-140
12. Klinar I, Ferhatovic L, Banozic A, Raguz M, **Kostic S**, Sapunar D, Puljak L. Physicians' attitudes about interprofessional treatment of chronic pain: family physicians are considered the most important collaborators. *Scand J Caring Sci*. 2012 Jul 15. doi: 10.1111/j.1471-6712.2012.01039.x. [Epub ahead of print]
13. Durgo K, **Kostić S**, Gradiški K, Komes D, Osmak M, Franekić J. Genotoxic Effects of Green Tea Extract on Human Laryngeal Carcinoma Cells In Vitro. *Arh Hig Rada Toksikol*. 2011; 62(2):139-146.
14. Novak K, Aljinović J, **Kostić S**, Čapkun V, Novak Ribičić K, Batinić T, Štula I, Puljak L. Pain to hospital times after myocardial infarction in patients from mainland and islands of Dalmatia, Southern Croatia. *Croat Med J* 2010; 51; 423-31.

COMPUTER SKILLS

Software baziran na Windowsima, MS Office, Statistica, GraphPad, EndNote, Adobe Photoshop, Adobe Illustrator