



**Goran Šimić**

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**Work address / Adresa na poslu**

University of Zagreb Medical School  
Croatian Institute for Brain Research  
Department of Neuroscience  
Šalata 12  
Zagreb, HR-10000  
Croatia

**Date and place of birth / Datum i mjesto rođenja**

8th May 1967 Zagreb, Croatia

**Marital status / Bračno stanje**

Married, father of three children / oženjen, otac troje djece

**Education / Obrazovanje**

University of Zagreb Medical School	Ph.D. /dr. sc.	1995-1998	Neuroscience
Karolinska Institute, Stockholm, Sweden	Postgraduate study	1994-1997	Alzheimer's disease
Univ. of Zagreb Faculty of Natural Sciences	M.Sc. / mr. sc.	1992-1995	Neurobiology
University of Zagreb Medical School	M.D. / dr. med.	1986-1992	Medicine
Mathematical Gymnasium Zagreb	Mathematician	1981-1985	Mathematics and Computer Sciences

**Employment and positions / Radno iskustvo i pozicije**

University of Zagreb Medical School	Full Professor, tenured / Redoviti profesor u trajnom zvanju	2016-	Neuroscience and Anatomy
Mediterranean Neuroscience Society	Member of the Council / Vice General Secretary	2017-	Neuroscience
National Council for Science, Higher Education and Technological Development	Vice President / Potpredsjednik	2017-	Biomedical Sciences and Health
<i>Translational Neuroscience</i> journal, Springer / Walter de Gruyter GmbH	Editor-in-Chief and Managing Editor /	2010- 2017	Neuroscience

	Glavni i odgovorni urednik		
Publishing Committee for evaluation of scientific and professional journals and books of the Croatian Ministry of Science and Education	President / Predsjednik	2010-2012	Science
Univ. of Zagreb Medical School, Croatian Inst. for Brain Res., Dept. of Neuroscience	Chair / Predstojnik i pročelnik	2009-	Neuroscience
Croatian Inst. for Brain Res., Laboratory for Developmental Neuropathology	Head / Voditelj laboratorija	2004-	Neuropathology
University of Zagreb Medical School, Dept. of Anatomy and Dept. of Neuroscience	Research Fellow - Full Professor	1993-2016	Neuroscience and Anatomy
Medical Center Trnje, Zagreb	Licensed G.P. / licencirani liječnik	1992-1993	General Medicine

### **Selected publications in peer-reviewed journals**

1. Boban, M., Babić Leko, M., Miškić, T., Hof, P.R., **Šimić, G.**  
Human neuroblastoma SH-SY5Y cells treated with okadaic acid express phosphorylated high molecular weight tau-immunoreactive protein species  
(2018) *Journal of Neuroscience Methods*  
doi: 10.1016/j.jneumeth.2018.09.030. [Epub ahead of print]  
Document type: Research article
2. Babić Leko, M., Župunski, V., Kirincich, J., Smilović, D., Hortobágy, T., Hof, P.R., **Šimić, G.**  
Molecular mechanisms of neurodegeneration related to *C9ORF72* hexanucleotide repeat expansion  
(2018) *Behavioral Neurology*, in press  
Document type: Research article
3. Babić Leko, M., Willumsen, N., Nikolac Perković, M., Klepac, N., Borovečki, F., Hof, P.R., Sonicki, Z., Pivac, N., de Silva, R., **Šimić, G.**  
Association of *MAPT* haplotype-tagging polymorphisms with cerebrospinal fluid biomarkers of Alzheimer's disease: a preliminary study in a Croatian cohort  
(2018) *Brain and Behavior*, in press  
Document type: Research article
4. Babić Leko, M., Krbot Skorić, M., Klepac, N., Borovečki, F., Langer Horvat, L., Vogrinc, Ž., Sonicki, Z., Hof, P.R., **Šimić, G.**  
Event-related potentials improve the efficiency of cerebrospinal fluid biomarkers for differential diagnosis of Alzheimer's disease  
(2018) *Current Alzheimer Research*  
doi: 10.2174/1567205015666180911151116. [Epub ahead of print]

Document type: Research article

5. Jazvinščak Jembrek M., Slade N., Hof P.R., **Šimić G.**  
The interactions of p53 with tau and A $\beta$  represent potential therapeutic targets for Alzheimer's disease  
(2018) *Progress in Neurobiology* 168: 104-127.  
Document type: Review article
6. Kiđemet-Piskač S., Babić Leko M., Blažeković A., Langer Horvat L., Klepac N., Sonicki Z., Kolenc D., Hof P.R., Boban M., Mimica N., Borovečki F., **Šimić G.**  
Evaluation of cerebrospinal fluid phosphorylated tau231 as a biomarker in the differential diagnosis of Alzheimer's disease and vascular dementia  
*CNS Neuroscience & Therapeutics* 23 (8): 734-740.  
(2018)  
Document type: Research article
7. Mihelčić M., **Šimić G.**, Babić Leko M., Lavrač N., Džeroski S., Šmuc T., Alzheimer's Disease Neuroimaging Initiative  
Using redescription mining to relate clinical and biological characteristics of cognitively impaired and Alzheimer's disease patients  
(2017) *PLoS One* 12(10): e0187364.  
Document type: Research article
8. Charvet C.J., **Šimić G.**, Kostović I., Kovačević V., Vukšić M., Babić Leko M., Takahashi E., Sherwood C.C., Wolfe M.D., Finlay B.L.  
Co-evolution in the timing of GABAergic and pyramidal neuron maturation in primates  
(2017) *Proceedings of the Royal Society of London B: Biological Sciences* 284 (1861): 20171169.  
DOCUMENT TYPE: Research article
9. Molina-Herrera, R., Mlinac Jerković, K., Ilić, K., Stöber F., Vemula S.K., Sandoval M., Jovanov Milošević N., **Šimić, G.**, Smalla K-H., Goldschmidt J., Kalanj Bogнар S., Montag D  
Neuroplastin deletion in glutamatergic neurons impairs selective brain functions and calcium regulation: implication for cognitive deterioration  
(2017) *Scientific Reports* 7 (1): 7273.  
DOCUMENT TYPE: Research article
10. **Šimić, G.**, Babić Leko, M., Wray, S., Harrington, C., Delalle, I., Jovanov-Milošević, N., Bažadona, D., Buée, L., de Silva, R., Di Giovanni, G., Wischik, C., Hof, P.R.  
Monoaminergic neuropathology in Alzheimer's disease  
(2017) *Progress in Neurobiology*, 151: 101-138.  
DOCUMENT TYPE: Review article
11. Mladinov, M., Sedmak G., Fuller H.R., Babić Leko, M., Mayer, D., Kirincich, J., Štajduhar, A., Borovečki, F., Hof, P.R., **Šimić, G.**  
Gene expression profiling of the dorsolateral and medial orbitofrontal cortex in schizophrenia

(2016) *Translational Neuroscience*, 7: 139-150.

DOCUMENT TYPE: Research article

- 12.** Babić Leko, M., Borovečki, F., Dejanović, N., Hof, P.R., **Šimić, G.**  
Predictive value of cerebrospinal fluid visinin-like protein-1 levels for Alzheimer's disease early detection and differential diagnosis in patients with mild cognitive impairment  
(2016) *Journal of Alzheimer's Disease*, 50: 765-778.  
DOCUMENT TYPE: Research article
- 13.** **Šimić, G.**, Babić Leko, M., Wray, S., Harrington, C., Delalle, I., Jovanov-Milošević, N., Bažadona, D., Buée, L., de Silva, R., Di Giovanni, G., Wischik, C., Hof, P.R.  
Tau protein hyperphosphorylation and aggregation in Alzheimer's disease and other tauopathies, and possible neuroprotective strategies  
(2016) *Biomolecules*, 6(1), E6  
DOCUMENT TYPE: Review article
- 14.** Fuller, H.R., Slade, R., Jovanov-Milošević, N., Babić, M., Sedmak, G., **Šimić, G.**, Fuszard, M.A., Shirran, S.L., Botting, C.H., Gates, M.A.  
Stathmin is enriched in the developing corticospinal tract  
(2015) *Molecular and Cellular Neuroscience*, 69: 12-21.  
DOCUMENT TYPE: Research article
- 15.** Jazvinščak Jembrek, M., **Šimić, G.**, Hof P.R., Šegota S.  
Atomic force microscopy as an advanced tool in neuroscience  
(2015) *Translational Neuroscience*, 6: 117-130.  
DOCUMENT TYPE: Review article
- 16.** Jazvinščak Jembrek, M., Hof P.R., **Šimić, G.**  
Ceramides in Alzheimer's disease: key mediators of neuronal apoptosis induced by oxidative stress and A $\beta$  accumulation.  
(2015) *Oxidative Medicine and Cellular Longevity*, 346783, 1-17.  
DOCUMENT TYPE: Review article
- 17.** Knezović, A., Osmanović-Barilar, J., Ćurlin, M., Hof P.R., **Šimić, G.**, Riederer P., Šalković-Petrišić, M.  
Staging of cognitive deficits and neuropathological and ultrastructural changes in streptozotocin-induced rat model of Alzheimer's disease  
(2015) *Journal of Neural Transmission*, 122 (4), 577-592.  
DOCUMENT TYPE: Research article
- 18.** **Šimić, G.**, Hof, P.R.  
In search of the definitive Brodmann's map of cortical areas in human  
(2015) *Journal of Comparative Neurology*, 523 (1), 5-14.  
DOCUMENT TYPE: Commentary

19. Krušlin, B., Džombeta, T., Bezjak, M., Sedmak, G., Petanjek, Z., **Šimić, G.**, Judaš, M., Kostović, I.  
Congenital brain anomalies and chromosomal aberrations from the Zagreb Collection of the human brains  
(2014) *Translational Neuroscience*, 5 (4), 293-301.  
DOCUMENT TYPE: Review article
20. Babić, M., Švob Štrac, D., Mück-Šeler, D., Pivac, N., Stanić, G., Hof, P.R., **Šimić, G.**  
Update on the core and developing cerebrospinal fluid biomarkers for Alzheimer's disease  
(2014) *Croatian Medical Journal*, 55 (4), 347-365.  
DOCUMENT TYPE: Review article
21. **Šimić, G.**, Babić, M., Borovečki, F., Hof, P.R.  
Early failure of the default-mode network and the pathogenesis of Alzheimer's disease  
(2014) *CNS Neuroscience and Therapeutics*, 20 (7), pp. 692-698.  
DOCUMENT TYPE: Letter
22. Jazvinščak Jembrek, M., Babić, M., Pivac, N., Hof, P.R., **Šimić, G.**  
Hyperphosphorylation of tau by GSK-3 $\beta$  in Alzheimer's disease: the interaction of A $\beta$  and sphingolipid mediators as a therapeutic target  
(2013) *Translational Neuroscience*, 4 (4), pp. 466-476.  
DOCUMENT TYPE: Review article
23. Schjeide B.-M., Borovečki F., Clarimón J., Faltraco F., Giedraitis V., Ingelsson M., Hampel H., Hooli B., Kilander L., Kirchheiner J., Klepac N., Kurz A., Lannfelt L., Lill C., Lléo A., Otto M., Pahnke J., Pernecky R., Rujescu D., Schnack C., **Šimić G.**, Tanzi R., Teipel S., Tumani H., von Arnim C., Bertram L.  
Assessment of Alzheimer's disease risk genes with CSF-biomarker levels  
(2013) *Alzheimer's and Dementia*, 9 (4), p. 179.  
DOCUMENT TYPE: Extended abstract
24. Štefulj, J., Panzenboeck, U., Hof, P.R., **Šimić, G.**  
Pathogenesis, modulation, and therapy of Alzheimer's disease: a perspective on roles of liver-X receptors  
(2013) *Translational Neuroscience*, 4 (3), pp. 349-356.  
DOCUMENT TYPE: Review article
25. Mustapić, M., Presečki, P., Pivac, N., Mimica, N., Hof, P.R., **Šimić, G.**, Folnegović-Šmalc, V., Mück-Šeler, D.  
Genotype-independent decrease in plasma dopamine beta-hydroxylase activity in Alzheimer's disease  
(2013) *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 44, pp. 94-99.  
DOCUMENT TYPE: Research article
26. Radoš, M., Nikić, I., Radoš, M., Kostović, I., Hof, P.R., **Šimić, G.**

Functional reorganization of the primary motor cortex in a patient with a large arteriovenous malformation involving the precentral gyrus  
(2013) *Translational Neuroscience*, 4 (2), pp. 269-272.  
DOCUMENT TYPE: Research article

27. Babić, M., Vogrinc, Z., Diana, A., Klepac, N., Borovečki, F., Hof, P.R., **Šimić, G.**  
Comparison of two commercial enzyme-linked immunosorbent assays for cerebrospinal fluid measurement of amyloid  $\beta$ 1-42 and total tau  
(2013) *Translational Neuroscience*, 4 (2), pp. 234-240.  
DOCUMENT TYPE: Research article
28. Jovanov Milošević, N., Petrović, D., Sedmak, G., Vukšić, M., Hof, P.R., **Šimić, G.**  
Human fetal tau protein isoform: possibilities for Alzheimer's disease treatment  
(2012) *International Journal of Biochemistry and Cell Biology*, 44 (8), pp. 1290-1294.  
DOCUMENT TYPE: Review article
29. Boban, M., Malojčić, B., Mimica, N., Vuković, S., Zrilić, I., Hof, P.R., **Šimić, G.**  
The reliability and validity of the mini-mental state examination in the elderly Croatian population  
(2012) *Dementia and Geriatric Cognitive Disorders*, 33 (6), pp. 385-392.  
DOCUMENT TYPE: Research article
30. Ćosić, K., Popović, S., Fabek, I., Kovač, B., Radoš, M., Radoš, M., Vasung, L., Judaš, M., Kostović, I., **Šimić, G.**  
Pilot fMRI study of neural activation patterns induced by professional military training  
(2012) *Translational Neuroscience*, 3 (1), pp. 46-50.  
DOCUMENT TYPE: Research article
31. Polšek, D., Jagatic, T., Capanec, M., Hof, P.R., **Šimić, G.**  
Recent developments in neuropathology of autism spectrum disorders  
(2011) *Translational Neuroscience*, 2 (3), pp. 256-264.  
DOCUMENT TYPE: Research article
32. Šarac, H., Hajnšek, S., Bašić, S., Telarović, S., Markeljević, J., Vukić, M., Radoš, M., Bošnjak-Pašić, M., Žarković, K., Hof, P.R., **Šimić, G.**  
Giant cavernoma of the skull and skeletal-extraskeletal angiomatosis associated with paraproteinemia  
(2011) *Translational Neuroscience*, 2 (3), pp. 265-269.  
DOCUMENT TYPE: Research article
33. Petanjek, Z., Judaš, M., **Šimić, G.**, Rašin, M.R., Uylings, H.B.M., Rakic, P., Kostović, I.  
Extraordinary neoteny of synaptic spines in the human prefrontal cortex  
(2011) *Proceedings of the National Academy of Sciences of the United States of America*, 108 (32), pp. 13281-13286.  
DOCUMENT TYPE: Research article
34. Raghanti, M.A., **Šimić, G.**, Watson, S., Stimpson, C.D., Hof, P.R., Sherwood, C.C.

Comparative analysis of the nucleus basalis of Meynert among primates  
(2011) *Neuroscience*, 184, pp. 1-15.  
DOCUMENT TYPE: Research article

- 35. Judaš, M., Šimić, G.,** Petanjek, Z., Jovanov Milošević, N., Pletikos, M., Vasung, L., Vukšić, M., Kostović, I.  
The Zagreb Collection of human brains: a unique, versatile, but underexploited resource for the neuroscience community  
(2011) *Annals of the New York Academy of Sciences*, 1225 (SUPPL. 1), pp. E105-E130.  
DOCUMENT TYPE: Research article
- 36. Špeljko, T., Jutric, D., Šimić, G.**  
HSV1 in Alzheimer's disease: myth or reality?  
(2011) *Translational Neuroscience*, 2 (1), pp. 61-68.  
DOCUMENT TYPE: Review article
- 37. Šarac, H., Henigsberg, N., Markeljević, J., Pavliša, G., Hof, P.R., Šimić, G.**  
Fragile X-premutation tremor/ataxia syndrome (FXTAS) in a young woman: clinical, genetics, Mri and 1H-Mr spectroscopy correlates [Fragilni X-vezani tremor/ataxia sindrom (FXTAS) u mlade žene: klinička, genetska, MRI and 1H-MR spektroskopska korelacija]  
(2011) *Collegium Antropologicum*, 35 (SUPPL. 1), pp. 327-332.  
DOCUMENT TYPE: Research article
- 38. Fuller, H.R., Barišić, M., Šešo-Šimić, D., Špeljko, T., Morris, G.E., Šimić, G.**  
Treatment strategies for spinal muscular atrophy  
(2010) *Translational Neuroscience*, 1 (4), pp. 308-321.  
DOCUMENT TYPE: Research article
- 39. Mladinov, M., Mayer, D., Brčić, L., Wolstencroft, E., Man, N.T., Holt, I., Hof, P.R., Morris, G.E., Šimić, G.**  
Astrocyte expression of D2-like dopamine receptors in the prefrontal cortex  
(2010) *Translational Neuroscience*, 1 (3), pp. 238-243.  
DOCUMENT TYPE: Research article
- 40. Šešo-Šimić, D., Sedmak, G., Hof, P.R., Šimić, G.**  
Recent advances in the neurobiology of attachment behavior  
(2010) *Translational Neuroscience*, 1 (2), pp. 148-159.  
DOCUMENT TYPE: Research article
- 41. Boban, M., Šarac, H., Mimica, N., Mladinov, M., Süßmair, C., Ackl, N., Bader, B., Huzak, M., Danek, A., Hof, P.R., Šimić, G.**  
CSF tau proteins in differential diagnosis of dementia  
(2010) *Translational Neuroscience*, 1 (1), pp. 43-46.  
DOCUMENT TYPE: Research article

42. Meštrović, J., Bralić, I., Flander, G.B., Jelavić, M., Oreb, I.J., Konstantopoulos, A., Kuzman, M., Malović, S., Miljević-Ridicki, R., Miškulin, M., Mujkić, A., Radonić, M., Rudan, V., Šešo-Šimić, Đ., **Šimić, G.**  
Child in contemporary Croatian society  
(2010) *Liječnički Vjesnik*, 132 (9-10), pp. 303-308.  
DOCUMENT TYPE: Public health-care policy article
43. Translational Neuroscience: Message from the editors-in-chief  
(2010) *Translational Neuroscience*, 1 (1), p. 1.  
DOCUMENT TYPE: Editorial
44. **Šimić, G.**, Stanić, G., Mladinov, M., Jovanov Milošević, N., Kostović, I., Hof, P.R.  
Does Alzheimer's disease begin in the brainstem? Annotation  
(2009) *Neuropathology and Applied Neurobiology*, 35 (6), pp. 532-554.  
DOCUMENT TYPE: Review article
45. **Šimić, G.**  
Pathogenesis of proximal autosomal recessive spinal muscular atrophy  
(2008) *Acta Neuropathologica*, 116 (3), pp. 223-234.  
DOCUMENT TYPE: Review article
46. **Šimić, G.**, Mladinov, M., Šešo-Šimić, Đ., Jovanov Milošević, N., Islam, A., Pajtak, A., Barišić, N., Sertić, J., Lucassen, P.J., Hof, P.R., Krušlin, B.  
Abnormal motoneuron migration, differentiation, and axon outgrowth in spinal muscular atrophy  
(2008) *Acta Neuropathologica*, 115 (3), pp. 313-326.  
DOCUMENT TYPE: Research article
47. Diana, A., **Šimić, G.**, Sinforiani, E., Orrù, N., Pichiri, G., Bono, G.  
Mitochondria morphology and DNA content upon sublethal exposure to beta-amyloid<sub>1-42</sub> peptide  
(2008) *Collegium Antropologicum*, 32 (Suppl. 1), pp. 51-58.  
DOCUMENT TYPE: Conference article
48. Šarac, H., Hajnšek, S., Bašić, S., Henigsberg, N., Radoš, M., **Šimić, G.**  
Magnetic resonance spectroscopy and measurement of tau epitopes of autopsy proven sporadic Creutzfeldt-Jakob disease in a patient with non-specific initial EEG, MRI and negative 14-3-3 immunoblot  
(2008) *Collegium Antropologicum*, 32 (Suppl. 1), pp. 199-204.  
DOCUMENT TYPE: Conference article
49. Boban, M., Grbić, K., Mladinov, M., Hof, P.R., Süßmair, C., Ackl, N., Stanić, G., Bader, B., Danek, A., **Šimić, G.**  
Cerebrospinal fluid markers in differential diagnosis of Alzheimer's disease and vascular dementia  
(2008) *Collegium Antropologicum*, 32 (Suppl. 1), pp. 31-36.  
DOCUMENT TYPE: Conference article



- 50. Šimić, G.,** Boban, M., Hof, P.R.  
Cerebrospinal fluid phosphorylated tau proteins as predictors of Alzheimer's disease in subjects with mild cognitive impairment  
(2008) *Periodicum Biologorum*, 110 (1), pp. 27-30.  
DOCUMENT TYPE: Short Survey
- 51.** Wolstencroft, E.C., **Šimić, G.,** Man, N.T., Holt, I., Lam, L.T., Buckland, P.R., Morris, G.E.  
Endosomal location of dopamine receptors in neuronal cell cytoplasm  
(2007) *Journal of Molecular Histology*, 38 (4), pp. 333-340.  
DOCUMENT TYPE: Research article
- 52. Šimić, G.,** Boban, M., Šarac, H., Grbić, K., Hof, P.R., Hamann, C., Ackl, N., Bader, B., Danek A.  
CSF tau proteins in evaluation of patients with suspected dementia  
(2007) *Neurodegenerative Diseases*, 4 (1), pp. 135-136.  
DOCUMENT TYPE: Research article
- 53. Šimić, G.,** Mladinov, M., Judaš, M., Hof, P.R.  
Brain asymmetries related to language with emphasis on entorhinal cortex and basal forebrain  
(2006) *Cognition Brain Behavior*, 10, pp. 251-268.  
DOCUMENT TYPE: Review article
- 54.** Boban, M., Kostović, I., **Šimić, G.**  
Nucleus subputaminalis: Neglected part of the basal nucleus of Meynert  
(2006) *Brain*, 129 (4), pp. E42.1-E42.2.  
DOCUMENT TYPE: Letter
- 55. Šimić, G.,** Bexheti, S., Kelović, Z., Kos, M., Grbić, K., Hof, P.R., Kostović, I.  
Hemispheric asymmetry, modular variability and age-related changes in the human entorhinal cortex  
(2005) *Neuroscience*, 130 (4), pp. 911-925.  
DOCUMENT TYPE: Research article
- 56. Šimić, G.,** Diana, A., Hof, P.R.  
Phosphorylation pattern of tau associated with distinct changes of the growth cone cytoskeleton.  
(2003) *Progress in Molecular and Subcellular Biology*, 32, pp. 33-48.  
DOCUMENT TYPE: Review article
- 57. Šimić, G.**  
Pathological tau proteins in argyrophilic grain disease  
(2002) *Lancet Neurology*, 1 (5), p. 276.  
DOCUMENT TYPE: Short Survey / Reaction and Reflection
- 58. Šimić, G.,** Lucassen, P.J., Krsnik, Z., Krušlin, B., Kostović, I., Winblad, B., Bogdanović, N.

nNOS expression in reactive astrocytes correlates with increased cell death related DNA damage in the hippocampus and entorhinal cortex in Alzheimer's disease  
(2000) *Experimental Neurology*, 165 (1), pp. 12-26.  
DOCUMENT TYPE: Research article

59. **Šimić, G.**, Šešo-Šimić, D., Lucassen, P.J., Islam, A., Krsnik, Z., Cviko, A., Jelasić, D., Barišić, N., Winblad, B., Kostović, I., Krušlin, B.  
Ultrastructural analysis and TUNEL demonstrate motor neuron apoptosis in Werdnig-Hoffmann disease  
(2000) *Journal of Neuropathology and Experimental Neurology*, 59 (5), pp. 398-407.  
DOCUMENT TYPE: Research article

60. **Šimić, G.**, Mrzljak, L., Fučić, A., Winblad, B., Lovrić, H., Kostović, I.  
Nucleus subputaminalis (Ayala): The still disregarded magnocellular component of the basal forebrain may be human specific and connected with the cortical speech area  
(1999) *Neuroscience*, 89 (1), pp. 73-89.  
DOCUMENT TYPE: Research article

61. Krušlin, B., Jukić, S., Kos, M., **Šimić, G.**, Cviko, A.  
Congenital anomalies of the central nervous system at autopsy in Croatia in the period before and after the Chernobyl accident.  
(1998) *Acta Medica Croatica: Časopis Hrvatske Akademije Medicinskih Znanosti*, 52 (2), pp. 103-107.  
DOCUMENT TYPE: Research article

62. **Šimić, G.**, Gnjidić, M., Kostović, I.  
Cytoskeletal changes as an alternative view on pathogenesis of Alzheimer's disease  
(1998) *Periodicum Biologorum*, 100 (2), pp. 165-173.  
DOCUMENT TYPE: Review article

63. Krušlin, B., Cviko, A., Jukić, S., **Šimić, G.**, Kurjak, A.  
Neural tube defects in induced abortions  
(1997) *Croatian Medical Journal*, 38 (2), pp. 117-120.  
DOCUMENT TYPE: Research article

64. **Šimić, G.**, Kostović, I., Winblad, B., Bogdanović, N.  
Volume and number of neurons of the human hippocampal formation in normal aging and Alzheimer's disease  
(1997) *Journal of Comparative Neurology*, 379 (4), pp. 482-494.  
DOCUMENT TYPE: Research article

65. Krušlin, B., Jukić, S., Delija-Presečki, Z., **Šimić, G.**, Kos, M., Tkalčević, T.  
Congenital anomalies of the central nervous system 1990-1993 [Kongenitalne anomalije središnjega živčanog sustava u razdoblju od 1990. do 1993. godine.]  
(1996) *Liječnički Vjesnik*, 118 (7-8), pp. 152-154.  
DOCUMENT TYPE: Research article

- 66.** Kostović, I., Judaš, M., Petanjek, Z., **Šimić, G.**  
 Ontogenesis of goal-directed behavior: anatomo-functional considerations  
 (1995) *International Journal of Psychophysiology*, 19 (2), pp. 85-102.  
 DOCUMENT TYPE: Research article
- 67.** Jukić, S., Krušlin, B., **Šimić, G.**, Babić, D., Škrablin, S., Tkalčević, T.  
 The incidence of congenital malformations of the central nervous system at autopsy  
 (1994) *Gynaecologia Perinatologia*, 3, pp. 50-53.  
 DOCUMENT TYPE: Research article
- 68.** Jukić, S., Krušlin, B., Babić, D., Ilić-Forko, J., Jukić, D., Kuvačić, I., Tkalčević, T., **Šimić, G.**  
 Congenital malformations as a cause of neonatal death  
 (1992) *Gynaecologia Perinatologia*, 1, pp. 233-235.  
 DOCUMENT TYPE: Research article
- 69.** Petanjek, Z., **Šimić, G.**, Šimpraga, Č.  
 Structural analysis of Golgi-impregnated neurons in the human prefrontal cortex  
 (1991) *Medicinar*, 37, pp. 75-88.  
 DOCUMENT TYPE: Research article
- 70.** Kostović, I., Judaš, M., Kostović-Knežević, L., **Šimić, G.**, Delalle, I., Chudy, D., Šajin, B.,  
 Petanjek, Z.  
 Zagreb research collection of human brains for developmental neurobiologists and  
 clinical neuroscientists  
 (1991) *International Journal of Developmental Biology*, 35 (3), pp. 215-230.  
 DOCUMENT TYPE: Research article

## §

### **Diploma, Master and PhD Theses**

- 1. Šimić, G.,**  
 Immunocytochemical markers of vulnerability of the hippocampal neurons in  
 Alzheimer's disease  
 (1998) University of Zagreb Medical School, Zagreb, 233 pp.  
 DOCUMENT TYPE: PhD Thesis / Disertacija
- 2. Šimić, G.,**  
 Unbiased estimation of the number of neurons of the human hippocampal formation  
 using the optical disector method in healthy control and Alzheimer's disease brains  
 (1995) University of Zagreb Faculty of Natural Sciences, Zagreb, 245 pp.  
 DOCUMENT TYPE: MSc Thesis / Magistarski rad
- 3. Šimić, G.,**  
 Developmental staging of the Zagreb Neuroembryological Collection  
 (1992) University of Zagreb Medical School, Zagreb, 45 pp.

**Selected published materials from meetings / Odabrane publikacije sa skupova**

- 1.** Mimica, N., Dajčić, M., Huić, T., Dajčić, T., Ivičić, M., Klepac, N., Kušan Jukić, M., Lacko, M., **Šimić, G.**, Šporer, V., Vizek, D.  
Hrvatska udruga za Alzheimerovu bolest i njezina misija  
(2018) Neurologia Croatica 67 (Suppl. 3), p. 73.  
Hrvatski kongres Alzheimerove bolesti CRO-CAD-18 s međunarodnim sudjelovanjem  
MEETING HELD IN: Novigrad, Hrvatska
- 2.** Langer Horvat, L., **Šimić, G.**  
Protocol for stereotaxic delivery of tau oligomers and tau fibrils into the rat entorhinal cortex  
(2018) Neurologia Croatica 67 (Suppl. 3), p. 53.  
Hrvatski kongres Alzheimerove bolesti CRO-CAD-18 s međunarodnim sudjelovanjem  
MEETING HELD IN: Novigrad, Hrvatska
- 3.** Boban, M., Babić Leko, M., Miškić, T., **Šimić, G.**  
Protein phosphatase inhibition by okadaic acid treatment of neuroblastoma SH-SY5Y cells induces expression of high molecular weight phospho-tau-immunoreactive proteins  
(2018) Neurologia Croatica 67 (Suppl. 3), p. 52.  
Hrvatski kongres Alzheimerove bolesti CRO-CAD-18 s međunarodnim sudjelovanjem  
MEETING HELD IN: Novigrad, Hrvatska
- 4.** Pivac, N., Nikolac Perković, M., Babić Leko, M., Švob Štrac, D., Borovečki, F., **Šimić, G.**  
Povezanost varijanti gena za moždani neurotrofni čimbenik (BDNF) i proteinskih biomarkera u cerebrospinalnoj tekućini bolesnika s Alzheimerovom bolesti  
(2018) Neurologia Croatica 67 (Suppl. 3), p. 24.  
Hrvatski kongres Alzheimerove bolesti CRO-CAD-18 s međunarodnim sudjelovanjem  
MEETING HELD IN: Novigrad, Hrvatska
- 5. Šimić, G.**  
The importance of blood-brain barrier changes for development of Alzheimer's disease  
(2018) Neurologia Croatica 67 (Suppl. 3), p. 21.  
Hrvatski kongres Alzheimerove bolesti CRO-CAD-18 s međunarodnim sudjelovanjem  
MEETING HELD IN: Novigrad, Hrvatska
- 6.** Kukolj, M., Oršolić, N., Odeh, D., Orct, T., **Šimić, G.**, Langer Horvat, L., Šoštarić, B., Branović Čakanić, K., Grabarević, D., Terzić, S.  
Effect of aluminium chloride on lipid peroxidation and distribution of toxic and essential/trace elements in rat's liver and spleen tissues  
(2018) 13<sup>th</sup> Croatian Biological Congress with international participation  
MEETING HELD IN: Poreč, Hrvatska

- 7. Boban, M., Miškić, T., Babić Leko, M., Šimić, G.**  
Inhibition of protein phosphatases by okadaic acid induces expression of high molecular weight phospho-tau-immunoreactive protein species in neuroblastoma SH-SY5Y cells  
(2018) *2<sup>nd</sup> EuroTau Meeting, Book of Abstracts*, p. 60  
MEETING HELD IN: Lille, France
- 8. Šimić, G.**  
Tau and neurofilament light proteins as biomarkers for perinatal encephalopathy  
(2018) *Brain Research Symposium of the Croatian Academy of Science and Arts. 14 March 2018 Book of Abstracts*, pp. 15-18  
MEETING HELD IN: Zagreb, Croatia
- 9. Lemoine L, Bharani K, Hamlett E, Perez S, Mufson E, Poon WW, Šimić G, Nordberg A, Granholm A-C.**  
Tau pathology in Down syndrome  
(2018) *12<sup>th</sup> Human amyloid imaging conference, 17-19 Jan 2018 Book of Abstracts*, p. 180  
MEETING HELD IN: Miami, FL, USA
- 10. Babić Leko, M., Wilumsen, N., Nikolac Perković, M., Klepac, N., Borovečki, F., Hof, P.R., Pivac, N., de Silva, R., Šimić, G.**  
Diagnostic potential of cerebrospinal fluid biomarkers in Alzheimer's disease combined with tau genotypes  
(2017) *FENS Regional Meeting, 20-23 Sept Book of Abstracts*, p. 19.  
MEETING HELD IN: Pécs, Hungary
- 11. Šimić, G.**  
Using deep-learning artificial intelligence to resolve the mechanistic relationship between Alzheimer's disease and gut microbiota  
(2017) *6. Croatian Neuroscience Congress Book of Abstracts*, p. 31.  
MEETING HELD IN: Osijek, Croatia
- 12. Boban, M., Miškić, T., Babić Leko, M., Šimić, G.**  
Okadaic acid treated SH-SY5Y neuroblastoma cell line as a model to study tau protein phosphorylation and oligomerization  
(2017) *6. Croatian Neuroscience Congress Book of Abstracts*, p. 89.  
MEETING HELD IN: Osijek, Croatia
- 13. Langer Horvat, L., Svoboda, J., Babić Leko, M., Miškić T., Kukolj, M., Oršolić, N., Hof, P.R., Šimić, G.**  
Protocol for stereotaxic delivery of tau monomers and oligomers into the rodent brain  
(2017) *6. Croatian Neuroscience Congress Book of Abstracts*, pp. 90-91.  
MEETING HELD IN: Osijek, Croatia
- 14. Šimić, G.**  
Involvement of lymphatic and glymphatic systems in Alzheimer's disease  
(2017) *Xjenja Online 5, Special Issue MNS*, pp. 166-167.  
MEETING HELD IN: St. Julian, Malta

- 15.** Babić Leko, M.\*, Nikolac Perković, M.\*, Langer Horvat, L., Klepac, N., Borovečki, F., Hof, P.R., Pivac, N., **Šimić, G.**  
Cerebrospinal fluid and genetic biomarkers in early detection of Alzheimer's disease  
(2017) *Xjenja Online* 5, Special Issue MNS, pp. 207-208.  
MEETING HELD IN: St. Julian, Malta
- 16. Šimić, G.**  
The need for reliable biomarkers for monitoring potential treatments in Alzheimer's disease  
(2017) *Xjenja Online* 5, Special Issue COST, p. 87 (reprinted)  
MEETING HELD IN: Bordeaux, France
- 17.** Boban, M., Babić Leko, M., Langer Horvat, L., **Šimić, G.**  
SH-SY5Y neuroblastoma cells treated with phosphatase inhibitor okadaic acid express high molecular weight tau species  
(2017) *1<sup>st</sup> EuroTau Meeting*, 27-28. IV. 2017, Book of Abstracts, p. 54  
MEETING HELD IN: Lille, France
- 18.** Trošt Bobić T, Zavoreo I, **Šimić G**  
Reliability of parameters frequently used for the evaluation of arm motor function  
(2016) PhD Day, Book of Abstracts, p. 37  
MEETING HELD IN: Zagreb, Croatia
- 19. Šimić, G.**  
Može li se transkranijском magnetskom stimulacijom liječiti Alzheimerova bolest  
(2016) Zbornik sažetaka EdukAI 2016, p. 7  
Druga edukativna konferencija o Alzheimerovoj bolesti EdukAI 2016  
MEETING HELD IN: Zagreb, Croatia
- 20.** Bažadona, D., Krbot Skorić, M., Klepac, N., **Šimić, G.**  
Oštećenje prostorne orijentacije u blagom kognitivnom poremećaju i Alzheimerovoj bolesti / Spatial disorientation in mild cognitive impairment and Alzheimer's disease.  
(2016) *Neurologia Croatica* 65 (Suppl. 2): 96.  
Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse  
MEETING HELD IN: Tučepi, Croatia
- 21.** Babić Leko, M., Nikolac Perković, M., Klepac, N., Borovečki, F., Pivac, N., **Šimić, G.**  
Combination of CSF protein biomarkers and BDNF, IL10, and IL6 genotypes in early diagnosis of Alzheimer's disease.  
(2016) *Neurologia Croatica* 65 (Suppl. 2): 95.  
Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse  
MEETING HELD IN: Tučepi, Croatia
- 22.** Babić Leko, M., Borovečki, F., Dejanović, N., Hof, P.R., **Šimić, G.**

Value of cerebrospinal fluid visinin-like protein-1 (VILIP-1) for prediction of mild cognitive impairment progression to Alzheimer's disease.

(2016) *Neurologia Croatica* 65 (Suppl. 2): 94.

Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse

MEETING HELD IN: Tučepi, Croatia

23. Aškić, L., Mimica, N., **Šimić, G.**, Mimica, Ni., Huić, T., Dajčić, T.

“Sea hero quest” – igricom do znanstvenog napretka u razumijevanju demencije.

(2016) *Neurologia Croatica* 65 (Suppl. 2): 93.

Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse

MEETING HELD IN: Tučepi, Croatia

24. Babić Leko, M., Jurasović, J., Nikolac Perković, M., Orct, T., Pivac, N., Klepac, N., Borovečki, F., Klarica, M., Hof, P.R., **Šimić, G.**

Relationships of zinc and copper CSF levels and APOE genotype in Alzheimer's disease.

(2016) *Neurologia Croatica* 65 (Suppl. 2): 87-88.

Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse

MEETING HELD IN: Tučepi, Croatia (Nagrada za najbolji poster)

25. **Šimić, G.**

Argyrophilic grain disease (Braak's dementia): an underestimated tauopathy and key to understanding Alzheimer's disease.

(2016) *Neurologia Croatica* 65 (Suppl. 2): 38.

Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse

MEETING HELD IN: Tučepi, Croatia

26. **Šimić, G.**, Babić Leko, M., Bažadona, D., Benković, V., Boban, M., Borovečki, F., Čirko, A., Đikić, D., Jazvinščak-Jembrek, M., Klepac, N., Oršolić, N., Petelin Gadže, Ž., Hof, P.R.

Acetylation of tau protein at Lys274 in argyrophilic grain disease and Alzheimer's disease

(2016) Book of abstracts of the 10<sup>th</sup> FENS Forum of Neuroscience, p. 231

MEETING HELD IN: Copenhagen, Denmark

27. Knezović, A., Osmanović-Barilar, J., Ćurlin, M., Hof, P.R., **Šimić, G.**, Riederer, P., Šalković-Petrišić, M.

Staging of ultrastructural and tau pathology in a rat model of sporadic Alzheimer's disease

(2016) Book of abstracts of the 10<sup>th</sup> FENS Forum of Neuroscience, p. 231

MEETING HELD IN: Copenhagen, Denmark

28. **Šimić, G.**

Strategija ranog otkrivanja Alzheimerove bolesti

(2015) Zbornik sažetaka EdukAI 2015, p. 7

Prva edukativna konferencija o Alzheimerovoj bolesti EdukAI 2015

MEETING HELD IN: Zagreb, Croatia

29. Babić Leko, M., Borovečki, F., Jurasović, J., Orct, T., Hof, P.R., **Šimić, G.**  
Macro and microelements as biomarkers of mild cognitive impairment  
(2015) J. Trace Elem. Med. Biol. 32S, p. 7  
XI Conference of the International Society for Trace Element Research in Humans  
MEETING HELD IN: Dubrovnik, Croatia
30. Babić Leko, M., Borovečki, F., Jurasović, J., Orct, T., Hof, P.R., **Šimić, G.**  
Macro and microelements and Alzheimer's disease protein biomarkers in cerebrospinal fluid  
(2015) J. Trace Elem. Med. Biol. 32S, p. 7  
XI Conference of the International Society for Trace Element Research in Humans  
MEETING HELD IN: Dubrovnik, Croatia
31. Fuller, R.H., Slade, R., Jovanov-Milošević, N., Babić, M., Sedmak, G., **Šimić, G.**, Fuszard, A.M., Shirran, L.S., Botting, H.C., Gates, A.M.  
Quantitative proteomics reveals that stathmin – a microtubule destabilising protein – is highly enriched in the developing corticospinal system  
(2015) FENS-Featured Regional Meeting  
Book of Abstracts, DE4, p. 52.  
MEETING HELD IN: Thessaloniki, Greece
32. Babić Leko, M., Borovečki, F., Jurasović, J., Orct, T., Hof, P.R., **Šimić, G.**  
Levels of cerebrospinal fluid macro- and microelements in mild cognitive impairment patients with and without pathological levels of six Alzheimer's disease protein biomarkers  
(2015) 5<sup>th</sup> Croatian Neuroscience Congress  
Book of Abstracts, pp. 71-72.  
MEETING HELD IN: Split, Croatia
33. Babić Leko, M., Borovečki, F., Jurasović, J., Orct, T., Hof, P.R., **Šimić, G.**  
Correlation of macro- and microelements and Alzheimer's disease protein biomarkers measured in cerebrospinal fluid  
(2015) 5<sup>th</sup> Croatian Neuroscience Congress  
Book of Abstracts, p. 71.  
MEETING HELD IN: Split, Croatia
34. Babić Leko, M., Krbot Skorić, M., Klepac, N., Palac, N., Langer, L., Vogrinc, Ž., Stanić, G., Borovečki, F., Hof, P.R., **Šimić, G.**  
Improved early detection of Alzheimer's disease by combination of event-related potentials and cerebrospinal fluid biomarkers  
(2015) 5<sup>th</sup> Croatian Neuroscience Congress  
Book of Abstracts, p. 70.  
MEETING HELD IN: Split, Croatia
35. Stručić, M., Kirincich, J., Mlinac, K., Ilić, K., Fabris, D., Vukelić, Ž., Babić Leko, M., **Šimić, G.**, Kazazić, S., Kalanj Bognar, S.,



Gangliosides in cerebrospinal fluid: tackling the optimal method of extraction, purification and characterization of gangliosides as potential diagnostic biomarkers in neurological disorders.

(2015) 5<sup>th</sup> Croatian Neuroscience Congress

Book of Abstracts, p. 61.

MEETING HELD IN: Split, Croatia

- 36.** Krsnik, Ž., Hrabač, P., Radoš, M., Jovanov-Milošević, N., Sedmak, G., Petanjek, Z., **Šimić, G.**, Vukšić, M., Judaš, M., Kostović, I.

Researchable brain catalog of the Zagreb Collection of the human brains

(2015) 5<sup>th</sup> Croatian Neuroscience Congress

Book of Abstracts, p. 49.

MEETING HELD IN: Split, Croatia

- 37.** Babić Leko M, Jazvinščak Jembrek M, Knezović A, **Šimić G.**

The effect of ASS234 on tau phosphorylation in vitro

COST Action 1103 "Structure-based drug design for diagnosis and treatment of neurological diseases: dissecting and modulating complex function in the monoaminergic systems of the brain" and

Mediterranean Neuroscience Society conference

(2015) MNS Book of Abstracts, p. 365.

MEETING HELD IN: Santa Margherita di Pula, Cagliari, Italy

- 38. Šimić, G.**

Macro- and microarchitecture of cognitive processing

(2015) NeuRI 2015 – 5<sup>th</sup> Student Congress of Neuroscience with International Participation

Gyrus 3 (Suppl. 2): p. 23.

MEETING HELD IN: Rijeka/Rab, Croatia

- 39.** Mimica, N., **Šimić, G.**, Kušan, M., Ivičić, M.

Why Alzheimer's Alliance Croatia?

(2015) 30<sup>th</sup> International Conference of Alzheimer's Disease International

ADI Book of Abstracts, p. 296.

MEETING HELD IN: Perth, Australia

- 40.** Babić, M., Vogrinc, Ž., Dejanović, N., Borovečki, F., Šimić, G., Phospho-tau proteins in cerebrospinal fluid as markers of therapeutic progress in Alzheimer's disease

(2015) GlowBrain Workshop "Visualization of molecular markers in the brain"

Book of Abstracts, p. 41

MEETING HELD IN: Zagreb, 29-31 Jan 2015, Croatia

- 41.** Babić, M., Švob Štrac, D., Mück-Šeler, D., Pivac, N., **Šimić, G.**

Pathogenesis and early diagnosis of Alzheimer's disease: involvement of the monoaminergic system

(2014) Neuropathology and Neuropharmacology of the Monoaminergic Systems

*Xjenza, The Journal of the Malta Chamber of Scientists*, 2 (2); pp. 79-81.

MEETING HELD IN: Bordeaux, France

42. Mimica, N., **Šimić, G.**, Kušan Jukić, M.  
Hrvatska Alzheimer alijansa  
(2014) The Croatian Congress on Alzheimer's disease CROCAD 2014  
*Neurologia Croatica* 63 (Suppl. 2); p. 151.  
MEETING HELD IN: Brela, Croatia
43. Mimica, N., **Šimić, G.**, Klepac, N., Mimica, Ne.  
Memory walk – korak za pamćenje  
(2014) The Croatian Congress on Alzheimer's disease CROCAD 2014  
*Neurologia Croatica* 63 (Suppl. 2); p. 141.  
MEETING HELD IN: Brela, Croatia
44. Mimica, N., **Šimić, G.**  
Obilježavanje Svjetskog dana Alzheimerove bolesti i Svjetskog mjeseca Alzheimerove bolesti  
(2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); pp. 140.  
MEETING HELD IN: Brela, Croatia
45. Mimica, N., **Šimić, G.**, Ivičić, M., Uzun, S., Kozumplik, O.  
Od konferencije o demencijama do CROCAD-14  
(2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); p. 139.  
MEETING HELD IN: Brela, Croatia
46. Mimica, N., **Šimić, G.**, Ivičić, M., Presečki, P.  
Alzheimer's café – što je to?  
(2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); p. 138.  
MEETING HELD IN: Brela, Croatia
47. Mimica, N., Dajčić, M., **Šimić, G.**, Huić, T., Ivičić, M., Lacko, M., Ozmec, S., Presečki, P., Dajčić, T.  
Hrvatska udruga za Alzheimerovu bolest – naših prvih 15 godina  
(2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); p. 134.  
MEETING HELD IN: Brela, Croatia
48. Babić, M., Krbot Skorić, M., Klepac, N., Palac, N., Langer, L., Vogrinc, Ž., Borovečki, F., Hof, P.R., **Šimić, G.**  
Combination of event-related potentials and cerebrospinal fluid biomarkers in early diagnosis of Alzheimer's  
(2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); pp. 83-84.  
MEETING HELD IN: Brela, Croatia (Nagrada za najbolji poster)

- 49. Knezović, A., Šimić, G.**  
 Time-course of astroglial changes and cognitive decline in a rat model of sporadic Alzheimer's disease  
 (2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); p. 79.  
 MEETING HELD IN: Brela, Croatia
- 50. Mimica, N., Šimić, G., Kušan Jukić, M., Ivičić, M., Presečki, P., Kerepčić-Ratkaj, Lj., Sabljčić, V., Vitezić, D.**  
 Croatian strategy for fight against Alzheimer's disease 2015-2020 – first public presentation and discussion on draft version  
 (2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); pp. 75-76.  
 MEETING HELD IN: Brela, Croatia
- 51. Šimić, G.**  
 Proteolysis and fragmentation of tau protein: trans-synaptic spreading of neurofibrillary degeneration in Alzheimer's disease and other sporadic tauopathies  
 (2014) The Croatian Congress on Alzheimer's disease CROCAD-2014  
*Neurologia Croatica* 63 (Suppl. 2); pp. 28-29.  
 MEETING HELD IN: Brela, Croatia
- 52. Šimić, G., Babić, M., Bažadona, D., Borovečki, F., Čerimagić, D., Dejanović, N., Hajnšek, S., Henigsberg, N., Jazvinščak Jembrek M., Jovanov Milošević, N., Kalanj-Bognar, S., Kiđemet Piskač, S., Mimica, N., Mustapić, M., Mück Šeler, D., Nedić Erjavec, G., Nikolac Perković, M., Petrović, R., Pivac, N., Presečki, P., Radoš, M., Stanić, G., Švob Štrac, D., Vogrinc, Ž., Vukelić, Ž., Hof, P.R.**  
 Early diagnosis of Alzheimer's disease by combination of cerebrospinal fluid core biomarkers and visinin-like protein-1 (VILIP-1)  
 (2014) *The 2014 Alzheimer's Disease Congress*, pp. 8-9.  
 MEETING HELD IN: London, UK
- 53. Babić, M., Vogrinc, Z., Dejanović, N., Borovečki, F., Hof, P.R., Šimić, G.**  
 Improved early diagnosis of Alzheimer's disease by combination of cerebrospinal fluid biomarkers  
 (2014) *9th Federation of European Neuroscience Societies Forum*, p. 100.  
 MEETING HELD IN: Milan, Italy
- 54. Krsnik, Ž., Hrbač, P., Radoš, M., Jovanov Milošević, N., Petanjek, Z., Šimić, G., Vukšić, M., Judaš, M., Kostović, I.**  
 40 years of the Zagreb Collection of human brains: website as a birthday present  
 (2014) *9th Federation of European Neuroscience Societies Forum*, p. 91.  
 MEETING HELD IN: Milan, Italy
- 55. Ilić, K., Gačić, M., Mlinac, K., Jovanov Milošević, N., Šimić, G., Kalanj Bognar, S.**  
 Neuroplastin: from neurodevelopment to neurodegeneration  
 (2013) *International Workshop on Cell Adhesion Molecules and Synaptic Function*, p. 1

MEETING HELD IN: Ballenstedt, Germany

56. Schjeide, B.M., Liu, T., Borovečki, F., Clarimon, J., Faltraco, F., Giedraitis, V., Ingelsson, M., Hampel, H., Hooli, B., Kilander, L., Kirchheiner, J., Klepac, N., Kurz, A., Lannfelt, L., Lleo, A., Otto, M., Pahnke, J., Pernecky, R., Rujescu, D., Schnack, C., **Šimić, G.**, Tanzi, R.E., Teipel, S., Tumani, H., von Arnim, C., Bertram, L.  
Assessment of Alzheimer's disease risk genes with CSF-biomarker levels  
(2013) *Alzheimer's Association International Conference Book of Abstracts*, p. 19.  
MEETING HELD IN: Boston, MA, USA
57. Babić, M., Kuštek, I., Klepac, N., Borovečki, F., Hof, P.R., **Šimić, G.**  
CSF tau proteins phosphorylated at threonine 231 as a potential biomarker of early-stage Alzheimer's disease  
(2013) *Alzheimer's Association International Conference Book of Abstracts*, p. 25.  
(2013) *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 9 (4), p. 717  
MEETING HELD IN: Boston, MA, USA
58. Mimica, N., Dajčić, M., **Šimić, G.**  
Alzheimer Croatia – helping people with dementia from 1999  
(2013) *28th International Conference of Alzheimer's Disease International Book of Abstracts*, p. 230.  
MEETING HELD IN: Taipei, Taiwan, Republic of China
59. Babić, M., Kuštek, I., Klepac, N., Borovečki, F., Hof, P.R., **Šimić, G.**  
CSF tau protein phosphorylated at threonine 231 as a potential biomarker of early stages of Alzheimer's disease  
(2013) *4th Croatian Congress of Neuroscience Book of Abstracts*, p. 54.  
MEETING HELD IN: Zagreb, Croatia
60. Mimica, N., **Šimić, G.**, Dajčić, M., Treščec Ivičić, M., Dajčić, T.  
Alzheimer Croatia – serving people with dementia since 1999  
(2013) *4th Croatian Congress of Neuroscience Book of Abstracts*, p. 55.  
MEETING HELD IN: Zagreb, Croatia
61. Mlinac, K., Gačić, M., Ilić, K., Jovanov Milošević, N., **Šimić, G.**, Kalanj Bognar, S.  
Neuroplastin: from neurodevelopment to neurodegeneration  
(2013) *4th Croatian Congress of Neuroscience Book of Abstracts*, pp. 34-35.  
MEETING HELD IN: Zagreb, Croatia
62. **Šimić, G.**, Babić, M., Bažadona, D., Borovečki, F., Hajnšek, S., Henigsberg, N., Jazvinščak-Jembrek, M., Jovanov Milošević, N., Kalanj-Bognar, S., Mustapić, M., Mimica, N., Mück-Šeler, D., Nedić, G., Nikolac, M., Petrović, R., Pivac, N., Presečki, P., Radoš, M., Stanić, G., Švob-Štrac, D., Vukelić, Ž., Hof, P.R.  
Croatian project on early detection of Alzheimer's disease: preliminary findings  
(2012) *Federation of European Neuroscience Societies Forum Abstracts* 13.31, no. 5043: C158  
MEETING HELD IN: Barcelona, Catalonia, Spain

- 63.** Knezović, A., Knapić, M., **Šimić, G.**, Šalković-Petrišić, M.  
The expression of glial fibrillary acidic protein in the brain of streptozotocin rat model of sporadic Alzheimer's disease  
(2012) *Clinical Neuropathology*, 31(4), p. 290.  
MEETING HELD IN: Edinburgh, Scotland, UK
- 64.** Knapić, M., Knezović, A., **Šimić, G.**, Šalković-Petrišić, M.  
Hippocampal and cortical neuronal damage in the streptozotocin rat model of sporadic Alzheimer's disease  
(2012) *Clinical Neuropathology*, 31(4), p. 290.  
MEETING HELD IN: Edinburgh, Scotland, UK
- 65.** Šalković-Petrišić, M., Knezović, A., Knapić, M., **Šimić, G.**  
Amyloid- $\beta$  pathology in the brain of a streptozotocin rat model of sporadic Alzheimer's disease  
(2012) *Clinical Neuropathology*, 31(4), p. 290.  
MEETING HELD IN: Edinburgh, Scotland, UK
- 66.** Mlinac, K., Gačić, M., Ilić, K., Jovanov-Milošević, N., **Šimić, G.**, Heffer M., Kalanj-Bognar, S.  
Cell-adhesion molecules are markers of plasticity in hippocampal tissue affected by Alzheimer's neurodegeneration  
(2012) *FEBS 3+ From Molecules to Life and Back meeting Book of Abstracts*, p. 147  
MEETING HELD IN: Opatija, Croatia
- 67.** Babić, M., Kuštek, I., Kiđemet-Piskač, S., Dejanović, N., Klepac, N., Gotovac, K., Borovečki, F., Šimić, G.  
Proteomic analysis of cerebrospinal fluid in mild cognitive impairment  
(2012) *Neurologia Croatica* 61 (Suppl. 4), pp. 93-94.  
MEETING HELD IN: Primošten, Croatia
- 68.** **Šimić, G.**  
Neurobiology of lower motor neuron  
(2011) *European Journal of Paediatric Neurology*, 15 (Suppl. 1), S4.  
MEETING HELD IN: Cavtat, Croatia
- 69.** **Šimić, G.**  
The neurobiology of spinal muscular atrophy  
(2011) *9th Congress of the European Paediatric Neurology Society - Satellite symposium in basic neuroscience "Progress in neuromuscular disorder research" Book of Abstracts*, p. 1.  
MEETING HELD IN: Cavtat, Croatia
- 70.** Boban, M., Šarac, H., Mladinov, M., Süßmair, C., Ackl, N., Bader, B., Danek, A., Mimica, N., Hof, P.R., **Šimić, G.**  
CSF total tau and tau protein phosphorylated at threonine 181 in the differential diagnosis of Alzheimer's disease and vascular cognitive impairment  
(2011) *European Journal of Neurology*, 18 (Suppl. 2.), p. 414.

MEETING HELD IN: Budapest, Hungary

- 71.** Gačić, M., Ilić, K., Mlinac, K., Jovanov-Milošević, N., **Šimić, G.**, Kalanj-Bognar, S.  
Expression of neuroplastin is increased in hippocampal tissue affected by Alzheimer's neurodegeneration  
(2011) *FENS-featured regional meeting / Sinapsa Neuroscience conference Book of Abstracts*, p. 152  
MEETING HELD IN: Ljubljana, Slovenia
- 72.** Mladinov, M., Mayer, D., Priller, J., **Šimić, G.**  
Astrocyte expression of DRD2, DRD3 and DRD4 dopamine receptors in the human orbitofrontal cortex  
(2010) *Federation of European Neuroscience Societies Forum Abstracts*, 6, p. 107.  
MEETING HELD IN: Amsterdam, The Netherlands
- 73.** Mimica, N., Glamuzina, K., Vučić, K., Gatin, M., Dajčić, M., **Šimić, G.**, Mladinov, M., Treščec Ivičić, M., Novy Radonić, E.  
Art therapy for people with dementia – case report  
(2010) *25th International Conference of Alzheimer's Disease International Book of Abstracts*, p. 109.  
MEETING HELD IN: Thessaloniki, Greece
- 74.** **Šimić, G.**  
Importance of non-cognitive symptoms in Alzheimer's disease  
(2010) *Neurologia Croatica* 59 (Suppl. 2), p. 20.  
MEETING HELD IN: Zadar, Croatia
- 75.** Mimica, N., Dajčić, M., **Šimić, G.**, Treščec Ivičić, M., Novy Radonić, E., Dajčić, T.  
Alzheimer Disease Society Croatia – Established 1999  
(2010) *Neurologia Croatica* 59 (Suppl. 2), p. 75.  
MEETING HELD IN: Zadar, Croatia
- 76.** Mimica, N., Mladinov, M., **Šimić, G.**, Dajčić, M., Treščec Ivičić, M.  
Global Alzheimer's disease Charter – Croatian translation  
(2010) *Neurologia Croatica* 59 (Suppl. 2), p. 144.  
MEETING HELD IN: Zadar, Croatia
- 77.** Mimica, N., **Šimić, G.**, Treščec Ivičić, M., Dajčić, M., Dajčić, T.  
Alzheimer Disease Society Croatia – member of Alzheimer's Disease International and Alzheimer Europe  
(2010) *Neurologia Croatica* 59 (Suppl. 2), p. 145.  
MEETING HELD IN: Zadar, Croatia
- 78.** Mimica, N., Dajčić, V., Dajčić, T., Dajčić, M., **Šimić, G.**, Treščec Ivičić, M., Hermanović, A.  
Alzheimer Disease Societies Croatia – Raising awareness and fighting stigma through arts  
(2010) *Neurologia Croatica* 59 (Suppl. 2), p. 146.  
MEETING HELD IN: Zadar, Croatia

79. Mimica, N., **Šimić, G.**, Dajčić, M., Mladinov, M., Treščec Ivičić, M., Novy Radonić, E., Glamuzina, K.  
Alzheimer's disease and stigma fight in Croatia  
(2009) *24th Conference of Alzheimer's Disease International Book of Abstracts*, p. 68  
MEETING HELD IN: Singapore, Republic of Singapore
80. Mladinov, M., Mayer, D., Jovanov Milošević, N., Kostović, I., **Šimić, G.**  
D2, D3 and D4 dopamine receptor expression in the prefrontal cortex of normal and schizophrenic brains  
(2009) *Neurogenomics and neuroimaging of developmental disorders Book of Abstracts*, p. 86.  
MEETING HELD IN: Dubrovnik, Croatia
81. **Šimić, G.**  
Biological basis of emotions  
(2009) *3rd European Summer School of Social Pediatrics Book of Abstracts*, p. 1-3.  
MEETING HELD IN: Dubrovnik, Croatia
82. **Šimić, G.**  
Perspectives of translational neuroscience and announcement of the new journal "Translational Neuroscience"  
(2009) *3rd Croatian Neuroscience Congress Book of Abstracts*, pp. 5-6.  
MEETING HELD IN: Zadar, Croatia
83. **Šimić, G.**  
Does Alzheimer's disease begin in the dorsal raphe nucleus?  
(2009) *3rd Croatian Neuroscience Congress Book of Abstracts*, pp. 29-30.  
MEETING HELD IN: Zadar, Croatia
84. Mladinov, M., Diana, A., Lam, L.T., Man, N.T., Holt, I., Morris, G.E., **Šimić, G.**  
Localization of dopamine receptors in a neuroblastoma cell line  
(2009) *3rd Croatian Neuroscience Congress Book of Abstracts*, p. 54.  
MEETING HELD IN: Zadar, Croatia (Nagrada za najbolji poster)
85. Mladinov, M., Mayer, D., Jovanov Milošević, N., Kostović, I., **Šimić, G.**  
D2, D3 and D4 dopamine receptors expression in the human brain  
(2009) *3rd Croatian Neuroscience Congress Book of Abstracts*, pp. 54-55.  
MEETING HELD IN: Zadar, Croatia
86. **Šimić, G.**, Hof, P.R.  
The origin and role of heterotopic motoneurons in the pathogenesis of spinal muscular atrophy  
(2008) *12th International Spinal Muscular Atrophy Research Group Meeting Abstract Book*, p. 12.  
MEETING HELD IN: Boston, MA, USA

- 87. Šimić, G.**  
Prediction of Alzheimer's disease in subjects with mild cognitive impairment using biological markers from CSF  
(2008) *Neurologia Croatica* 57 (Suppl. 4), p. 26.  
MEETING HELD IN: Rovinj, Croatia
- 88. Mimica, N., Dajčić, M., Šimić, G., Mladinov, M., Glamuzina, K., Novy Radonić, E., Treščec Ivičić, M., Vidas Kaćanski, A.**  
Alzheimer's disease Societies Croatia – what we have done since the last congress  
(2008) *Neurologia Croatica* 57 (Suppl. 4), p. 62.  
MEETING HELD IN: Rovinj, Croatia
- 89. Boban, M., Grbić, K., Mladinov, M., Hof, P.R., Süßmair, C., Ackl, N., Bader, B., Danek, A., Šimić, G.**  
The role of the cerebrospinal fluid biomarkers in a tertiary memory clinic: our 4-year experience  
(2008) *Neurologia Croatica* 57 (Suppl. 4), p. 80.  
MEETING HELD IN: Rovinj, Croatia
- 90. Mladinov, M., Mimica, N., Novy-Radonić, E., Treščec Ivičić, M., Glamuzina, K., Dajčić, M., Šimić, G.**  
Out-institutional care for people with Alzheimer's disease  
(2008) *Neurologia Croatica* 57 (Suppl. 4), p. 116.  
MEETING HELD IN: Rovinj, Croatia
- 91. Mimica, N., Dajčić, M., Šimić, G., Mladinov, M., Glamuzina, K., Novy Radonić, E., Treščec Ivičić, M., Vidas Kaćanski, A.**  
Alzheimer's disease Societies Croatia: our plans for the near future  
(2008) *Neurologia Croatica* 57 (Suppl. 4), p. 124.  
MEETING HELD IN: Rovinj, Croatia
- 92. Mladinov, M., Šimić, G., Diana, A.**  
Neuroblastoma cells express glial features during differentiation  
(2008) *Federation of European Neuroscience Societies Forum Abstracts* 4, p. 204.  
MEETING HELD IN: Geneva, Switzerland
- 93. Šimić, G., Mladinov, M., Diana, A., Krušlin, B.**  
Are heterotopic neurons in spinal muscular atrophy actually adult stem cells?  
(2008) *Federation of European Neuroscience Societies Forum Abstracts* 4, p. 239.  
MEETING HELD IN: Geneva, Switzerland
- 94. Mimica, N., Boban, M., Boban, Ma., Mladinov, M., Radoš, M., Stipetić, K., Dejanović, N., Novy-Radonić, E., Šimić, G.**  
Ten early warning signs of Alzheimer's disease – Croatian illustrated version  
(2007) *23rd Alzheimer's disease International Conference Book of Abstracts*, p. 56.  
MEETING HELD IN: Caracas, Venezuela



- 95. Šimić G.**  
Phosphorylation of tau proteins in development and Alzheimer's disease  
*Presidential Symposium of the 2nd Croatian Congress of Neuroscience*  
(2007) *Neurologia Croatica* 56 (Suppl. 2), pp. 26-27.  
MEETING HELD IN: Zagreb, Croatia
- 96. Šimić G.**  
CSF phosphorylated tau proteins as predictors of Alzheimer's disease in subjects with mild cognitive impairment  
(2007) *Periodicum Biologorum* 109 (Suppl. 2), p. 43.  
MEETING HELD IN: Osijek, Croatia
- 97. Boban, M., Grbić, K., Hof, P.R., Süßmair, C., Ackl, N., Mimica, N., Bader, B., Danek, A., Šimić, G.**  
Phosphorylated tau proteins in evaluation of patients with suspected dementia  
(2007) *Neurologia Croatica* 56 (Suppl. 2), p. 131.  
MEETING HELD IN: Zagreb, Croatia
- 98. Grbić, K., Hof, P.R., Hamann, C., Ackl, N., Bader, B., Danek, A., Šimić, G.**  
Tau phosphoepitopes threonine 231 and 181 as promising biological markers of Alzheimer's disease  
(2007) *Neurologia Croatica* 56 (Suppl. 2), p. 133.  
MEETING HELD IN: Zagreb, Croatia
- 99. Jovanov Milošević, N., Grbić, K., Kostović, I., Hof, P., Šimić, G.**  
Spatial and temporal pattern of Ser199/Ser202/Thr205-phosphorylated tau expression in developing human brain and during Alzheimer's disease progression  
(2007) *Neurologia Croatica* 56 (Suppl. 2), pp. 132-133.  
MEETING HELD IN: Zagreb, Croatia
- 100. Šimić, G., Mladinov, M., Rašin, M.R., Petanjek, Z., Kostović, I., Hof, P.R., Seress, L.**  
Slow postnatal development of hippocampal CA1 pyramidal neurons suggests prolonged maturation of human declarative memory  
(2007) *Neurologia Croatica* 56 (Suppl. 2), p. 49.  
MEETING HELD IN: Zagreb, Croatia
- 101. Boban, M., Grbić, K., Hof, P.R., Süßmair, C., Ackl, N., Bader, B., Danek, A., Šimić, G.**  
CSF levels of total tau, tau protein phosphorylated at threonine 181 and serine 199 as predictors of Alzheimer's disease in patients with mild cognitive impairment  
(2007) *European Journal of Neurology*, 14 (Suppl. 1), p. 95.  
MEETING HELD IN: Brussels, Belgium
- 102. Šarac, H., Hajnšek, S., Bašić, S., Radoš, M., Henigsberg, N., Šimić, G.**  
Specific spectroscopic MR metabolite profile and tau proteins profile in autopsy proven Creutzfeldt-Jakob's disease in a patient with non-specific initial EEG, MRI and negative 14-3-3 protein  
(2007) *European Journal of Neurology*, 14 (Suppl. 1), p. 58.

MEETING HELD IN: Brussels, Belgium

**103. Šimić G.**

Kako pamti dječji mozak (biološki temelji pamćenja)

*Stručni skup pedagoga voditelja Županijskih stručnih vijeća osnovnih i srednjih škola*

Katalog stručnih skupova Agencije za odgoj i obrazovanje 2007, 585, pp. 2-6.

MEETING HELD IN: Zagreb, Croatia

**104. Mimica, N., Dajčić, M., Ivanković, V., Pecotić, Z., Šimić, G., Vidas Kaćanski, A.**

Alzheimer Disease Societies Croatia

(2006) *22nd Conference of Alzheimer's Disease International Book of Abstracts*, pp. 102-103.

MEETING HELD IN: Berlin, Germany

**105. Mimica, N., Dajčić, M., Ivanković, V., Pecotić, Z., Šimić, G., Vidas, A.**

Croatian Society for Alzheimer's disease

(2006) *Liječnički Vjesnik 128 (Suppl. 1)*, pp. 170-171.

MEETING HELD IN: Opatija, Croatia

**106. Boban, M., Grbić, K., Hof, P.R., Hamann, C., Ackl, N., Bader, B., Danek, A., Šimić, G.**

CSF levels of total tau protein, phosphorylated tau epitopes 181, 199 and 231 as markers for early-onset Alzheimer's dementia

(2006) *European Journal of Neurology*, 13 (Suppl. 2), pp. 196-197.

MEETING HELD IN: Glasgow, UK

**107. Šimić, G.**

Pathological substrates of Alzheimer's disease: review and need to update criteria with CSF biomarkers

(2006) *Neurologia Croatica 55 (Suppl. 4)*, pp. 29-30.

MEETING HELD IN: Brijuni, Croatia

**108. Boban, M., Grbić, K., Hof, P.R., Hamann, C., Ackl, N., Bader, B., Danek, A., Šimić, G.**

Cerebrospinal fluid levels of total tau protein, tau protein phosphorylated at threonine 181 and 199 as markers for early-onset dementia

(2006) *Neurologia Croatica 55 (Suppl. 4)*, p. 62.

MEETING HELD IN: Brijuni, Croatia

**109. Grbić, K., Boban, M., Hof, P.R., Hamann, C., Ackl, N., Bader, B., Danek, A., Šimić, G.**

Phosphorylated tau epitopes threonine 231 and threonine 181 in the early diagnosis of Alzheimer's disease

(2006) *Neurologia Croatica 55 (Suppl. 4)*, p. 63.

MEETING HELD IN: Brijuni, Croatia

**110. Jovanov Milošević, N., Grbić, K., Kostović, I., Hof, P.R., Šimić, G.**

Phosphorylation of tau protein during early development and progression of Alzheimer's disease

(2006) *Neurologia Croatica 55 (Suppl. 4)*, pp. 64-65.

MEETING HELD IN: Brijuni, Croatia

- 111.** Mladinov, M., Boban, M., Boban, Ma., Grbić, K., Mimica, N., **Šimić, G.**  
Phosphorylation of tau proteins in development and Alzheimer's disease  
(2006) *Neurologia Croatica* 55 (Suppl. 4), p. 66.  
MEETING HELD IN: Brijuni, Croatia
- 112.** Šarac, H., Hajnšek, S., Bašić, S., Radoš, M., Henigsberg, N., **Šimić, G.**  
Characteristic MR spectroscopy metabolite profiles and low phospho-tau/total-tau ratio in differentiating Creutzfeldt-Jacob disease from Alzheimer's disease  
(2006) *Neurologia Croatica* 55 (Suppl. 4), p. 67.  
MEETING HELD IN: Brijuni, Croatia
- 113.** Boban, M., Boban, Ma., Mladinov, M., Radoš, M., Grbić, K., Dejanović, N., Mimica, N., **Šimić, G.**  
Ten early cognitive and behavioural deficits in Alzheimer's disease  
(2006) *Neurologia Croatica* 55 (Suppl. 4), p. 92.  
MEETING HELD IN: Brijuni, Croatia
- 114.** Ivanković, V., Grbić, K., **Šimić, G.**, Mimica, N.  
1906-2006: 100 years of Alzheimer's disease  
(2006) *Neurologia Croatica* 55 (Suppl. 4), p. 95.
- 115.** Mimica, N., Dajčić, M., Ivanković, V., Pecotić, Z., **Šimić, G.**, Vidas Kačanski, A., Presečki, P., Grbić, K.  
Activities of Alzheimer's disease societies Croatia  
(2006) *Neurologia Croatica* 55 (Suppl. 4), p. 100.  
MEETING HELD IN: Brijuni, Croatia
- 116.** Mimica, N., **Šimić, G.**, Grbić, K., Novy-Radonić, E., Ivanković, V., Dajčić, M., Pecotić, Z., Vidas-Kačanski, A.  
Raising awareness of Alzheimer's dementia  
(2006) *Clinical Neuropathology*, 25, pp. 303-304.  
MEETING HELD IN: Ljubljana, Slovenia
- 117.** Boban, M., Grbić, K., Hof, P.R., Hamann, C., Ackl, N., Mimica, N., Bader, B., Danek, A., **Šimić, G.**  
CSF tau proteins in evaluation of patients with suspected dementia  
(2006) *Clinical Neuropathology*, 25, p. 306.  
MEETING HELD IN: Ljubljana, Slovenia
- 118.** **Šimić, G.**, Pajtak, A., Hof, P.R., Krušlin, B.  
Abnormal motoneuron migration in spinal muscular atrophy  
(2006) *Federation of European Neuroscience Societies Forum Abstracts*, 2, p. 186.  
MEETING HELD IN: Vienna, Austria
- 119.** Grbić, K., **Šimić, G.**

Fosforilirani tau epitop treonin 231 u ranoj dijagnostici Alzheimerove bolesti  
(2006) *Liječnički Vjesnik* 128 (Suppl. 1), pp. 76-77.  
MEETING HELD IN: Opatija, Croatia

- 120.** Šarac, H., Henigsberg, N., Petravić, D., **Šimić, G.**  
Alzheimer's disease associated with monoclonal gammopathy  
(2005) *Journal of Neurological Sciences*, 238 (Suppl. 1), pp. 300-301.  
MEETING HELD IN: Sydney, Australia
- 121.** Barišić, N., Sertić, J., **Šimić, G.**, Lehman, I., Brčić, L.  
"TUNEL" analysis in correlation with electromyoneurographic abnormalities in children  
with proximal spinal muscular atrophies  
(2004) *Neurologia Croatica* 53 (Suppl. 3), p. 64.  
MEETING HELD IN: Dubrovnik, Croatia
- 122.** Grbić, K., **Šimić, G.**  
Phosphorylated and truncated tau protein in fetal human brain  
(2004) *Medicinski Vjesnik* (Suppl. 1), p. 53.  
MEETING HELD IN: Osijek, Croatia
- 123.** **Šimić, G.**, Grbić, K., Hof, P.R.  
Tau phosphorylation and selective neuronal vulnerability in Alzheimer's disease  
(2003) *Neurologia Croatica* 52 (Suppl. 4), p. 87.  
MEETING HELD IN: Zagreb, Croatia
- 124.** **Šimić, G.**, Šešo-Šimić, Đ.  
The pathogenesis of spinal muscular atrophy in humans is based on an inappropriate  
persistence of normally occurring motor neuron apoptosis  
(2003) *6th Multinational Congress on Microscopy Book of Abstracts*, p. 283.  
MEETING HELD IN: Pula, Croatia
- 125.** **Šimić, G.**  
The role of SMN and NAIP gene mutations in etiopathogenesis of spinal muscular atrophy  
(2002) *RIKEN Brain Science Institute Summer School of Neuroscience Book of Abstracts*, p.  
81.  
MEETING HELD IN: Tokyo, Japan
- 126.** **Šimić, G.**  
Hippocampal atrophy in normal aging and Alzheimer's disease: Postmortem analysis of  
four linear measures and total volume  
(2002) *7th European Congress of Neuropathology Book of Abstracts*, p. G10  
MEETING HELD IN: Helsinki, Finland
- 127.** **Šimić, G.**, Bjeloš, M., Rašin, M.R., Kostović, I., Seress, L.  
Postnatal development of human CA1 pyramidal neurons  
(2001) *Society for Neuroscience Abstracts*, 27, 250.2  
MEETING HELD IN: San Diego, CA, USA

- 128. Šimić, G.**  
Tau hyperphosphorylation and entorhino-hippocampal neuron loss in Alzheimer's disease.  
(2001) *Neurobiology in Eastern and Western Europe - International School for Advanced Studies Book of Abstracts*, p. 9.  
MEETING HELD IN: Trieste, Italy
- 129. Lasn, H., Šimić, G., Winblad, B., Bogdanović, N.**  
Oligodendroglial cells in the hippocampal formation in aging and Alzheimer's disease  
(1998) *Neurobiology of Aging*, 19 (4), p. 236.  
MEETING HELD IN: Amsterdam, The Netherlands
- 130. Šimić, G., Winblad, B., Bogdanović, N.**  
Relationship between hippocampal neurofibrillary degeneration and neuronal loss in aging and Alzheimer's disease  
(1998) *Neurobiology of Aging*, 19 (4), p. 239.  
MEETING HELD IN: Amsterdam, The Netherlands
- 131. Lucassen, P.J., Šimić, G., De Kloet, E.R., Winblad, B., Bogdanović, N.**  
Absence of apoptosis but increased DNA fragmentation in subregions of the Alzheimer hippocampus: relationship to patterns of cell loss and nNOS immunoreactivity  
(1998) *Neurobiology of Aging*, 19 (4), p. 118.  
MEETING HELD IN: Amsterdam, The Netherlands
- 132. Šimić, G., Lovrić, H., Kostović, I., Winblad, B., Bogdanović, N.**  
NOS-I immunocytochemistry of the hippocampal formation and entorhinal cortex in normal aging and Alzheimer's disease  
(1997) *Society for Neuroscience Abstracts*, 23, p. 1641.  
MEETING HELD IN: New Orleans, LA, USA
- 133. Krušlin, B., Jukić, S., Kos, M., Šimić, G.**  
Neural tube defects at autopsy in Croatia after the Chernobyl accident  
(1997) *42th Annual Meeting of the Pediatric Pathologic Society Book of Abstracts*, p. 43.  
MEETING HELD IN: Kiel, Germany
- 134. Šimić, G., Kostović, I., Winblad, B., Bogdanović, N.**  
The number of neurons of the human hippocampal formation in normal aging and Alzheimer's disease  
(1996) *European Journal of Neuroscience (Suppl. 9)*, p. 150.  
MEETING HELD IN: Strasbourg, France
- 135. Bogdanović, N., Šimić, G., Kostović, I., Winblad, B.**  
The number of neurons in the human hippocampal formation in normal aging and Alzheimer's disease  
(1995) *Journal of Neuropathology and Experimental Neurology*, 54, p. 82.  
MEETING HELD IN: Stockholm, Sweden

- 136.**        **Šimić, G.**, Bogdanović, N., Kostović, I., Winblad, B.  
Volume and dimensions of the human hippocampal formation in normal aging and Alzheimer's disease  
(1995) *European Journal of Neuroscience (Suppl. 8)*, p. 174.  
MEETING HELD IN: Amsterdam, The Netherlands
- 137.**        **Šimić, G.**, Radonić, E., Folnegović-Šmalc, V., Petanjek, Z., Judaš, M., Kostović, I.  
SMI-32 immunocytochemistry of the hippocampus and entorhinal cortex in schizophrenic patients  
(1995) *European Journal of Neuroscience (Suppl. 8)*, p. 152.  
MEETING HELD IN: Amsterdam, The Netherlands
- 138.**        Petanjek, Z., **Šimić, G.**, Judaš, M., Radonić, E., Kostović, I.  
Postnatal development of dendritic spines on layer IIIc pyramidal neurons in the human prefrontal cortex  
(1994) *European Journal of Neuroscience (Suppl. 7)*, p. 49.  
MEETING HELD IN: Vienna, Austria
- 139.**        **Šimić G.**, Krušlin, B., Cviko, A., Hudolin, T., Kostović, I.  
Werdnig-Hoffmann disease: the loss of anterior horn neurons of the spinal cord unbiasedly estimated using the disector method  
(1994) *European Journal of Neuroscience (Suppl. 7)*, p. 105.  
MEETING HELD IN: Vienna, Austria
- 140.**        Cviko, A., Krušlin, B., **Šimić, G.**  
Werdnig-Hoffmann disease: quantitative neuropathological analysis  
(1993) *XVII International meeting of Croatian society of pathologic and forensic medicine / Croatian days of selected topics in medical science Book of Abstracts*, p. 7.  
MEETING HELD IN: Zagreb, Croatia
- 141.**        Cviko, A., Krušlin, B., **Šimić, G.**  
Familial hypophosphatemia: case report  
(1993) *XVII International meeting of Croatian society of pathologic and forensic medicine / Croatian days of selected topics in medical science Book of Abstracts*, p. 6.  
MEETING HELD IN: Zagreb, Croatia
- 142.**        **Šimić, G.**  
Evaluation of methods for determining the number of neurons in the human brain  
(1990) *32nd Medical Students Congress Book of Abstracts*, p. 11.  
MEETING HELD IN: Teslić, Bosnia and Herzegovina
- 143.**        Petanjek, Z., Šimpraga, Č., **Šimić, G.**  
Basket neurons in the cerebral cortex of mammals  
(1990) *32nd Medical Students Congress Book of Abstracts*, p. 13.  
MEETING HELD IN: Teslić, Bosnia and Herzegovina
- 144.**        **Šimić, G.**, Šešo, Đ.

Expert systems and neural networks in medicine  
(1989) *31st Medical Students Congress Book of Abstracts*, p. 270.  
MEETING HELD IN: Ohrid, Republic of Macedonia

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### **Plenary lectures / Plenarna predavanja**

- 1. Šimić, G.**  
Neuroznanstveni temelji učenja  
Proljetna škola Hrvatskog pedagoško-književnog zbora  
Opatija, 5. ožujka 2018.
- 2. Šimić, G.**  
Using deep-learning artificial intelligence to resolve the mechanistic relationship between Alzheimer's disease and gut microbiota  
6. Croatian Neuroscience Congress, Osijek, Croatia, 17<sup>th</sup> Sept 2017
- 3. Šimić, G.**  
Macro- and microarchitecture of cognitive processing  
Plenary lecture of the 5th Student Congress of Neuroscience with International Participation  
NeuRI 2015, Rijeka, 24<sup>th</sup> April 2015
- 4. Šimić, G.**  
Functional neuroanatomy of the dementia syndrome  
Plenary lecture of the *4th Croatian Congress of Neuroscience*  
Zagreb, Croatia, 21th September 2013
- 5. Šimić, G.**  
Neurobiology of lower motor neuron  
Plenary lecture of the *9th Congress of the European Paediatric Neurology Society*  
Cavtat, Croatia, 13th May 2011
- 6. Šimić, G.**  
Functional neuroanatomy of the brain reward system and the impact of early emotional experience on adult capacity for social attachment  
Opening plenary lecture of the *9th Zagreb International Medical Summit*  
Zagreb, 12th November 2009
- 7. Šimić, G.**  
The origin and role of heterotopic motoneurons in the pathogenesis of spinal muscular atrophy  
Podium presentation at the *12th International Spinal Muscular Atrophy Research Group Meeting*  
Boston, MA, USA, 19th June 2008
- 8. Šimić, G.**

The pathogenesis of proximal autosomal recessive spinal muscular atrophy  
The 53rd Annual Meeting of the German Society for Neuropathology and Neuroanatomy -  
on the occasion of the receipt of the Kurt Jellinger Prize  
Würzburg, 10th October 2008

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### **Selected invited lectures / Odabrana pozvana predavanja**

- 1. Šimić, G.**  
Frontotemporalne lobarne degeneracije  
Poslijediplomski tečaj "Uloga obiteljskog liječnika u zaštiti zdravlja osoba s demencijom"  
Škola narodnog zdravlja "Andrija Štampar"  
Zagreb, 18. V. 2018.
- 2. Šimić, G.**  
Kliničko-patološka korelacija u bolesnika s kognitivnim smetnjama i upotreba biomarkera u diferencijalnoj dijagnozi neurodegenerativnih bolesti  
Poslijediplomski studij Neurologije, predmet Kognitivne i neurodegenerativne bolesti  
Klinika za neurologiju Kliničkog bolničkog centra Zagreb  
Zagreb, 28. III. 2018.
- 3. Šimić, G.**  
Tau i laki protein neurofilamenata kao biološki biljezi perinatalne encefalopatije  
HAZU Simpozij o istraživanju i bolestima mozga  
Preporodna dvorana, Opatička 18, Zagreb  
Zagreb, 14. III. 2018.
- 4. Šimić, G.**  
Likvorski biomarkeri u dijagnostici Alzheimerove bolesti  
Poslijediplomski tečaj "Alzheimerova bolest u kliničkoj praksi"  
Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, 23. II. 2018.
- 5. Šimić, G.**  
Neurovascular unit, microbleeds, and glymphatic system as convergent determinants of stroke, Alzheimer's disease and idiopathic normotensive hydrocephalus  
Boston University Medical School  
Boston (MA, USA), 27. XI. 2017.
- 6. Šimić, G.**  
Funkcijska neuroanatomija moždane kore  
Poslijediplomski tečaj "Dijagnostički i terapijski pristup bolesniku s epilepsijom"  
Zagreb, 13. X. 2017.
- 7. Šimić, G.**  
Topografska anatomija moždane kore i ovojnica, likvorskih prostora i krvnih žila mozga



KBC Zagreb, Klinika za neurokirurgiju  
Zagreb, 13. X. 2017.

**8. Šimić, G.**

Lymphatic and glymphatic systems as origin points for Alzheimer's disease  
6<sup>th</sup> Mediterranean Neuroscience Conference  
St. Julian's, Malta, 13. VI. 2017.

**9. Šimić, G.**

Autorstvo... i kako ga steći  
Medical Information Conference Croatia  
University of Zagreb Medical School  
Zagreb, 7. VI. 2017.

**10. Šimić, G.**

Quantitative modeling of cognitive decline  
Marie Curie Actions: Workshop on Quantitative Modeling in Biomedicine  
Department of Mathematics, Faculty of Science  
Zagreb, 7. VI. 2017.

**11. Šimić, G.**

Digitalna demencija kao uzrok preuranjenog kognitivnog urušavanja  
Europski Dom Zagreb  
Zagreb, 11. V. 2017.

**12. Šimić, G.** Uloga neurovaskularne jedinice i mikrokrvarenja u nastanku moždanog udara i, Alzheimerove bolesti

Tečaj stalnog medicinskog usavršavanja "Praktičan pristup bolesniku s demencijom"  
Zagreb, 21. IV. 2017.

**13. Šimić, G.**

Argyrophilic grain disease (Braak's dementia): an underestimated tauopathy and key to understanding Alzheimer's disease / Bolest argirofilnih tjelešaca (Braakova demencija): podcijenjena tauopatija i ključ za razumijevanje Alzheimerove bolesti  
Hrvatski kongres o Alzheimerovoj bolesti CROCAD-16 s međunarodnim sudjelovanjem i Sastanak Mediteranske Alzheimer alijanse,  
Tučepi, Croatia, 5-8. X. 2016.

**14. Šimić, G.**

Biomarkeri u dijagnostici frontotemporalnih demencija i Alzheimerove bolesti  
Tečaj stalnog medicinskog usavršavanja "Praktičan pristup bolesniku s demencijom"  
Zagreb, Hrvatska, 20. V. 2016.

**15. Šimić, G.**

Fresh ideas on architecture of cognitive processing and Alzheimer's disease pathogenesis: possibilities for translation into clinical practice

Symposium "Partnering for impact in global and public health"  
Medical University of South Carolina, Charleston, USA, 3. XI. 2015.

- 16. Šimić, G.**  
Biomarkeri u dijagnostici Alzheimerove i Lewyjeve bolesti  
Tečaj stalnog medicinskog usavršavanja "Praktičan pristup bolesniku s demencijom"  
Zagreb, Hrvatska, 22. V. 2015.
- 17. Šimić, G.**  
Moj mozak – to sam ja  
14. Tjedan mozga u Hrvatskoj, O.Š. Josipa Jurja Strossmayera  
Zagreb, Hrvatska, 19. III. 2015.
- 18. Šimić, G.**  
Anatomija i fiziologija mehanizma gutanja  
Tečaj stalnog medicinskog usavršavanja "*Neurogene orofaringealne disfagije*"  
Zagreb, Hrvatska, 27. II. 2015.
- 19. Šimić, G.**  
Nove mogućnosti znanstvenog proučavanja spoznajnih procesa  
Hrvatsko katoličko liječničko društvo,  
Zagreb, Hrvatska, 18. II. 2015.
- 20. Šimić, G.**  
Nobelova nagrada za medicinu/fiziologiju 2014 za mozgovni navigacijski sustav –  
kako stvaramo kartu svoje okoline  
Ciklus predavanja "Nobel na Ruđeru"  
Zagreb, Hrvatska, 5. XI. 2014.
- 21. Šimić, G.**  
Proteoliza i fragmentacija tau proteina: transsinaptičko širenje neurofibrilarne degeneracije  
u Alzheimerovoj bolesti i drugim sporadičnim tauopatijama  
Sastanak Društva za kliničku genetiku Hrvatske  
Zagreb, Hrvatska, 21. X. 2014.
- 22. Šimić, G.**  
Biomarkeri u dijagnostici Alzheimerove bolesti  
Poslijediplomski tečaj "*Praktičan pristup bolesniku s demencijom*", Medicinski fakultet  
Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 23. V. 2014.
- 23. Šimić, G.**  
Nove spoznaje o nastanku Alzheimerove bolesti  
*Javno predavanje povodom 15. godišnjice Hrvatske udruge za Alzheimerovu bolest,*  
Alzheimer café - Gradska kavana Zagreb  
Zagreb, Hrvatska, 7. V. 2014.

- 24. Šimić, G.**  
Mogu li nam nove metode slikovnog prikaza mozga pomoći otkriti uzrok Alzheimerove bolesti?  
*Javno predavanje u okviru 13. Tjedna mozga (Brain Awareness Week)*  
Zagreb, Hrvatska, 13. III. 2014.
- 25. Šimić, G.**  
Apoptoza u neuromišićnim i neurodegenerativnim bolestima  
*5. Okrugli stol o apoptozi, Akademija Medicinskih Znanosti Hrvatske*  
Zagreb, Hrvatska, 13. III. 2013.
- 26. Šimić, G.**  
Proteomska analiza cerebrospinalne tekućine u Alzheimerovoj bolesti  
*Prvi stručni sastanak Hrvatskog društva za Alzheimerovu bolest i psihijatriju starije životne dobi, Hrvatski Liječnički Zbor*  
Zagreb, Hrvatska, 11. III. 2013.
- 27. Šimić, G.**  
Uvod u anatomske podloge glavobolja  
Izborni predmet "*Boli me glava, što ću?*", Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 6. II. 2013
- 28. Šimić, G.**  
Translacijska istraživanja u neuroznanosti  
*Medical Information Conference Croatia*  
Zagreb, Croatia, 15th June 2012
- 29. Šimić, G.**  
Discriminative power of CSF tau proteins in primary and secondary tauopathies  
*COST CM1103 Meeting "Monoamines and drugs: New insights into the brain disorders"*  
Zagreb, Croatia, 26th April 2012
- 30. Šimić, G.**  
Rana dijagnostika Alzheimerove bolesti  
*Javna tribina u sklopu 11. Tjedna mozga (Brain Awareness Week)*  
Zagreb, Hrvatska, 16. III. 2012.
- 31. Šimić, G.**  
Neuropathology of Alzheimer's disease  
*COST CM1103 Meeting "Structure-based drug design for diagnosis and treatment of neurological diseases: dissecting and modulating complex function in the monoaminergic systems of the brain"*  
Bruxelles, Belgium, 2nd February 2012
- 32. Šimić, G.**  
Otkrivanje i praćenje bioloških biljega radi rane intervencije u sporadičnoj Alzheimerovoj bolesti

*Javno predavanje povodom započinjanja projekta HRZZ, Medicinski fakultet Sveučilišta u Zagrebu*  
Zagreb, Hrvatska, 24. I. 2012.

**33. Šimić, G.**

Zašto i kako sam dobio nagradu  
*Simpozij HLZ "Suvremeni izazovi istraživanja mozga: ideje 'starih' autora i nove mogućnosti njihovog proučavanja"*  
Zagreb, Hrvatska, 26. II. 2011.

**34. Šimić, G.**

New insights into the pathogenesis of Alzheimer's disease  
*Dan hrvatsko-slovenske suradnje, Medicinski fakultet Ljubljana*  
Ljubljana, Slovenija, 14. III. 2011.

**35. Šimić, G.**

Nove spoznaje o mogućem virusnom uzročniku Alzheimerove bolesti  
*Javna tribina u sklopu 10. Tjedna mozga (Brain Awareness Week)*  
Zagreb, Hrvatska, 16. III. 2011.

**36. Šimić, G.**

Nove spoznaje o patogenezi Alzheimerove bolesti  
*Tribina Grada Zagreba, Kaptol 27*  
Zagreb, Hrvatska, 12. IX. 2011.

**37. Šimić, G.**

Proteomika u bolestima živčanog sustava, farmakoproteomsko istraživanje mozga  
*Poslijediplomski tečaj "Proteomika u biomedicinskim istraživanjima", Medicinski fakultet Sveučilišta u Zagrebu*  
Zagreb, Hrvatska, 9. VI. 2010.

**38. Šimić, G.**

Introducing the journal Translational Neuroscience  
*The 7th UK SMA researchers' conference*  
Llanwyddyn, UK, 4th October 2010

**39. Šimić, G.**

Pathogenesis of Alzheimer's disease  
*UKF Workshop "Mechanisms of regeneration and repair in neurological disorders"*  
Zagreb, Croatia, 17th December 2010

**40. Šimić, G.**

Anatomija i fiziologija na bol osjetljivih struktura glave  
*Poslijediplomski tečaj "Glavobolje u kliničkoj praksi", Medicinski fakultet Sveučilišta u Zagrebu*  
Zagreb, Hrvatska, 6. VI. 2009.

- 41. Šimić, G.**  
Nove spoznaje neuroznanosti o procesu učenja u odraslih ljudi  
*Klinika za kirurgiju KBC Zagreb*  
Zagreb, Hrvatska, 10. XI. 2009
- 42. Šimić G.**  
Vanjski utjecaji na rani razvoj mozga djeteta: Utjecaj ranog emocionalnog razvitka na zdravlje i ponašanje u odrasloj dobi  
*"Dijete u suvremenom hrvatskom društvu"* - simpozij u organizaciji Hrvatskog pedijatrijskog društva, Ministarstva ministarstva zdravstva i socijalne skrbi, HAZU i UNICEF Hrvatska  
Zagreb, Hrvatska, 12. XII. 2009.
- 43. Šimić, G.**  
Neurobiološki temelji motivacije  
*Stručni skup za suradnike i odgojitelje srednjih škola* u organizaciji Agencije za odgoj i obrazovanje i Centra za krizne situacije  
Zagreb, Hrvatska, 16. III. 2009.
- 44. Šimić, G.**  
Novije spoznaje o patogenezi Alzheimerove bolesti  
*Klinika za neurologiju Kliničkog bolničkog centra Zagreb*  
Zagreb, Hrvatska, 20. XI. 2008.
- 45. Šimić, G., Mimica, N., Glamuzina, K., Dajčić, M.**  
Izvaninstitucijska skrb za osobe oboljele od Alzheimerove bolesti  
*Tribina Hrvatske udruge za Alzheimerovu bolest, Dom za starije i nemoćne osobe*  
Medveščak  
Zagreb, Hrvatska, 15. V. 2008.
- 46. Šimić, G.**  
Nove spoznaje o patogenezi Alzheimerove bolesti i oksidativnom oštećenju mozga tijekom starenja  
*Znanstveni poslijediplomski studij, "Molekularna genetika starenja i karcinogeneze",*  
Institut "Ruđer Bošković"  
Zagreb, Hrvatska, 14. V. 2008.
- 47. Šimić, G., Dajčić, M., Novy-Radonić, E., Mimica, N.**  
Liječenje simptoma agresivnosti u osoba s Alzheimerovom bolešću  
*Tribina Hrvatske udruge za Alzheimerovu bolest, u sklopu 7. Tjedna mozga (Brain Awareness Week) u Hrvatskoj, uz pokroviteljstvo Nacionalne zaklade za razvoj civilnoga društva,*  
Dom za starije i nemoćne osobe Medveščak  
Zagreb, Hrvatska, 14. III. 2008.
- 48. Šimić, G.**  
Rana dijagnostika Alzheimerove bolesti u gerijatrijskih bolesnika  
*155. Gerontološka tribina Zavoda za javno zdravstvo grada Zagreba*

Zagreb, Hrvatska, 4. XII. 2007.

**49. Šimić, G.**

Nove mogućnosti slikovnog prikaza građe i funkcije mozga u dijagnostici autističnog poremećaja

*Radionica Hrvatske proljetne pedijatrijske škole "Djeca i autizam", MEDILS*  
Split, Hrvatska, 21. IV. 2007.

**50. Šimić, G.**

Građa, funkcija i poremećaji moždane kore

*Odjel za Psihologiju Riječkog Sveučilišta*  
Rijeka, Hrvatska, 12. III. 2007.

**51. Šimić, G.**

Nove spoznaje u etiopatogenezi, dijagnostici i terapiji Alzheimerove bolesti

*Psihijatrijska bolnica Vrapče, Zagreb*  
Zagreb, Hrvatska, 3. X. 2006.

**52. Šimić, G.**

Pathological substrates of Alzheimer's disease: review and need to update criteria with CSF biomarkers

*3rd Croatian congress on Alzheimer's disease with international participation*  
Brijuni, Croatia, 8th October 2006

**53. Šimić, G.**

Symmetry and asymmetry of the brain

*Intensivkurs Neuroanatomie 2006: Okzipitallappen, Hirnstamm, Marklager*  
Ludwig-Maximilians-Universität Munich  
Munich, Germany, 28th September 2006

**54. Šimić, G.**

Odabrani aspekti molekularne biologije Alzheimerove bolesti

*Poslijediplomski kolegij "Molekularna genetika starenja i karcinogeneze", Institut Ruđer*  
Bošković  
Zagreb, Hrvatska, 21. VII. 2006.

**55. Šimić, G.**

Alzheimerova bolest jučer, danas i sutra

*3. simpozij iz psihogerijatrije*  
Rab, Hrvatska, 13. V. 2006.

**56. Šimić, G.**

Temporal lobe epilepsy and hippocampal sclerosis

*Postgraduate course "Selected chapters in epileptogenesis in developing brain", University*  
of Zagreb Medical School  
Zagreb, Croatia, 20th April 2006

- 57. Šimić, G.**  
New perspectives in Alzheimer's disease  
*North East Wales Institute Brain Symposium*  
Wrexham, UK, 24th February 2004
- 58. Šimić, G.**  
Hippocampal neurons in ageing and Alzheimer's disease  
*OPEN University*  
Milton Keynes, UK, 23rd February 2004
- 59. Šimić, G.**  
Neurobiologija anksioznosti  
*Izborni predmet "Tjeskoba i kako je se osloboditi"*, Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 6. X. 2003.
- 60. Šimić, G.**  
Introduction to stereology: theoretical issues and practical problems  
*Federation of European Neuroscience Societies School*  
Zagreb, Croatia, 23rd September 2003
- 61. Šimić, G.**  
Transient expression and phosphorylation of fetal tau  
*3rd International Symposium on Normal and Abnormal Development of the Human Fetal Brain*  
Zagreb, Croatia, 14th June 2003
- 62. Šimić, G.**  
Medial temporal lobe in the context of neurodegenerative disease  
*Department of Cognitive Neuroscience, Bangor University*  
Bangor, U.K., 23rd May 2003
- 63. Šimić, G.**  
How we perceive pain: the neurobiology of nociception  
*North East Wales Institute Brain Symposium*  
Wrexham, UK, 21st May 2003
- 64. Šimić, G.**  
Experiments and theories of aging  
*North East Wales Institute Brain Symposium*  
Wrexham, UK, 21st May 2003
- 65. Šimić, G.**  
Temeljne neuroznanosti i psihofarmakologija  
*Simpozij "Psihofarmaci i psihofarmakoterapija" povodom 50-godišnjice prve primjene psihofarmaka u Hrvatskoj*, Psihijatrijska bolnica Vrapče  
Zagreb, Hrvatska 25. IV. 2003.

- 66. Šimić, G.**  
Mozak i starenje  
*Javna tribina Tjedna mozga*, Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 14. III. 2003.
- 67. Šimić, G.**  
Ustroj i djelovanje hipokampalne formacije  
*Habilitacijsko predavanje*, Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 24. X. 2002.
- 68. Šimić, G.**  
The pathogenesis of spinal muscular atrophy  
*Neuroscience Summer School, RIKEN Brain Science Institute*  
Tokyo, Japan, 26th July 2002
- 69. Šimić, G.**  
Neurobiologija vidnog sustava čovjeka  
*Specijalistički poslijediplomski tečaj Klinička neurologija*, Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 16. IV. 2002.
- 70. Šimić, G.**  
Neurobiologija nocicepcije i talamičkih relejnih jezgara  
*Specijalistički poslijediplomski tečaj Klinička neurologija*, Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 12. IV. 2002.
- 71. Šimić, G.**  
Hipokampus i pamćenje  
*Specijalistički poslijediplomski tečaj Klinička neurologija*, Medicinski fakultet Sveučilišta u Zagrebu  
Zagreb, Hrvatska, 11. IV. 2002.
- 72. Šimić, G.**  
Anatomija bolnih putova i centara  
*Poslijediplomski tečaj "Kronična maligna bol – dijagnostika i liječenje"*, Medicinski fakultet Sveučilišta u Zagrebu,  
Zagreb, Hrvatska, 7. III. 2002.
- 73. Šimić, G.**  
Elektronsko-mikroskopska analiza odumiranja stanica u središnjem živčanom sustavu  
*Sekcija za elektronsku mikroskopiju Hrvatskog prirodoslovnog društva*  
Zagreb, Hrvatska, 15. I. 2002.
- 74. Šimić, G.**



Tau hyperphosphorylation and entorhino-hippocampal neuron loss in Alzheimer's disease  
*"Neurobiology in Eastern and Western Europe Meeting", International School for Advanced Studies*  
Trieste, Italy, 30<sup>th</sup> November 2001

**75. Šimić, G.**

Zašto i kako stari ljudski mozak?  
Predavanje Matice Hrvatske - Odjel za psihološku medicinu, etnopsihijatriju i antropologiju  
Zagreb, Hrvatska, 23. X. 2001.

**76. Šimić, G.**

Abnormal polysialylation in spinal muscular atrophy: clues for possible new role of the survival motor neuron protein  
*Meeting of the biochemistry and molecular biology group, Multi-disciplinary research and innovation centre, North East Wales Institute*  
Wrexham, UK, 28<sup>th</sup> May 2001

**77. Šimić, G.**

Possible role of the subputaminal nucleus in etiopathogenesis of the primary progressive aphasia  
*Cognitive Neurology and Alzheimer's Disease Center, Northwestern University Medical School*  
Chicago, IL, USA, 21<sup>st</sup> February 2000

**78. Šimić, G.**

Programmed cell death in Werdnig-Hoffmann disease  
*The First Summer School of Croatian Institute for Brain Research "Brain Development, Injury and Repair"*  
Zagreb, Croatia, 5<sup>th</sup> July 1999

**79. Šimić, G.**

Cell death in Alzheimer's disease  
*The 10<sup>th</sup> "Ljudevit Jurak" International Symposium on Comparative Pathology*  
Zagreb, 5<sup>th</sup> June 1999

**80. Šimić, G.**

Neurofibrillary degeneration in old age and Alzheimer's disease  
*The 2<sup>nd</sup> International Conference on Health Care for the Elderly*  
Lovran, Croatia, 26<sup>th</sup> March 1998

**81. Šimić, G.**

The use of the optical disector method in pathology  
*The 17<sup>th</sup> Sergie Saltikow Memorial Meeting and 1<sup>st</sup> International Meeting of the Croatian Society of Pathology and Forensic Medicine*  
Zagreb, Croatia, 18<sup>th</sup> November 1993

## **Selected ongoing and completed research support / Odabrani trenutni i završeni projekti**

### **Ongoing projects / Trenutni projekti**

- 2017-2022: The European Union through the European Regional Development Fund, Operational Programme Competitiveness and Cohesion, grant agreement no. KK.01.1.1.01.0007, CoRE – Neuro, Znanstveni centar izvrsnosti za temeljnu, kliničku i translacijsku neuroznanost (voditelj istraživačke skupine 2: Novi biološki biljezi starenja, Alzheimerove bolesti, vaskularne demencije i moždanih stanja povezanih s inzulinskom rezistencijom; voditelj ZCI: prof. dr. sc. Miloš Judaš)
- 2017-2021: H2020 SC1-2017: Alliance4Life, jedan od hrvatskih partnera (voditelj konzorcija: Masaryk University, Brno, Czech Republic; hrvatski coordinator: mr. sc. Smiljka Vikić-Topić)
- 2015-2019: HRZZ IP-2014-09-9730 / CSF (Hrvatska zaklada za znanost): “Hiperfosforilacija, agregacija i transsinaptički prijenos tau proteina u Alzheimerovoj bolesti: analiza cerebrospinalne tekućine i ispitivanje potencijalnih neuroprotektivnih spojeva” (Principal Investigator / Voditelj projekta) <http://alztauprotect.hiim.hr/>
- 2016-2018: HAMAG-BICRO (Hrvatska agencija za malo gospodarstvo, inovacije i investicije) UTT projekt: Test prostornog snalaženja za rano otkrivanje Alzheimerove bolesti SPOT-ALZ (voditelj projekta)
- 2017-2021: HRZZ DOK-2015-10-7200: voditelj doktoranda (Lea Langer Horvat, mag. biol. mol.)  
2018: Potpora Sveučilišta u Zagrebu BM103/2018 „Pilot istraživanje postavljanja dijagnoze Alzheimerove bolesti u pretkliničkom stadiju pomoću kombinacije bioloških biljega iz krvi i likvora“ (voditelj projekta)

### **Selected completed projects / Odabrani završeni projekti**

- 2017: Potpora Sveučilišta u Zagrebu BM82/2017 „Određivanje propusnosti krvno-moždane barijere u Alzheimerovoj bolesti“ (voditelj projekta)
- 2016: Potpora Sveučilišta u Zagrebu BM112 „Mehanizmi neurofibrilarne degeneracije *in vitro* i *in vivo*“ (voditelj projekta)
- 2011-2015: COST Action CM1103 (uz potporu FP i ESF): „Structure-based drug design for diagnosis and treatment of neurological diseases: dissecting and modulating complex function in the monoaminergic systems of the brain“, Croatian Member / Hrvatski član [http://www.cost.eu/domains\\_actions/cmst/Actions/CM1103](http://www.cost.eu/domains_actions/cmst/Actions/CM1103)
- 2015: Potpora Sveučilišta u Zagrebu BM112 „Biološki biljezi Alzheimerove bolesti u cerebrospinalnoj tekućini“ (voditelj projekta)

2012-2014: HRZZ / CSF: „Otkrivanje i praćenje bioloških biljega radi rane terapijske intervencije u sporadičnoj Alzheimerovoj bolesti / Detecting and tracking of biological markers for early detection for early therapeutic intervention in Alzheimer's disease“, Hrvatska zaklada za znanost / Croatian Science Foundation ( Principal Investigator / Voditelj projekta)  
<http://alzbiotrack.hiim.hr/>

2007-2012: „Phosphorylation of tau proteins in development and Alzheimer's disease“, The Croatian Ministry of Science, Education and Sports, grant no. 108-1081870-1942, Principal Investigator

2008 (1st Jan - 31th Dec): „Outinstitutional care for patients with Alzheimer's disease“, National Foundation for Civil Society, grant PP-2, Principal Investigator

2002-2006: „Reactivation of fetal plasticity in Alzheimer's disease“, The Croatian Ministry of Science, Education and Sports, grant no. 108-258, Principal Investigator

2001-2003: „Abnormal polysialylation in spinal muscular atrophy: clues for possible new role of survival motor neuron protein“, Academic links and interchange scheme, British Council / MZT RH, grant no. 220, Croatian PI

1997-2001: „Tau and neurofilament proteins, and nitric oxide synthetase, as markers of hippocampal neurons' vulnerability in Alzheimer's disease“, MZT RH / The Croatian Ministry of Science and Technology, grant no. 108-503, Principal Investigator

1997-2001: MZT RH: „Development of the human cerebral cortex of the frontal lobe“, associate researcher

1993-1996: MZT RH: „Postnatal development of the human cerebral cortex“, associate researcher

1992-1993: MZT RH: „Reorganization of the human cerebral cortex during lifetime“, junior researcher

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### **Selected teaching activities / Odabrana nastavna djelatnost**

#### **Undergraduate teaching / Dodiomska nastava**

1992/1993 - present/danas: „Organizacija i funkcija središnjeg živčanog sustava“ (do 1997) / „Temelji neuroznanosti“ i „Anatomija čovjeka“ ( „Organization and Function of the Central Nervous System“ (until 1997) / „Fundamentals of Neuroscience“ (from 1997)) and „Human Anatomy“, na hrvatskom jeziku / in Croatian

2002/2003 – present/danas: „Clinically-oriented Anatomy“ (in English, for Medical Studies in English at University of Zagreb Medical School)

2003/2004 – present/danas: „Fundamentals of Neuroscience“ (in English, for Medical Studies in English at University of Zagreb Medical School, co-ordinator of the course)

### **Postgraduate teaching / Poslijediplomska nastava**

2002/2003 – present/danas: nastava iz kolegija „Klinička neurologija / Clinical Neurology“ na specijalističkom poslijediplomskom studiju iz neurologije Medicinskog fakulteta u Zagrebu

2003/2004 – present/danas: nastava iz kolegija „Neurobiologija starenja“ (voditelj) na Doktorskom studiju Medicinskog fakulteta Sveučilišta u Zagrebu „Biomedicina i zdravlje“ i Sveučilišnom poslijediplomskom studiju „Neuroznanost / Neuroscience“ (since 2006/2007)

2003/2004 – present/danas: nastava iz metodološkog predmeta „Metode rekonstrukcije neurona i stereologija“

2003/2004 – 2008/2009: poslijediplomski tečaj Stalnog medicinskog usavršavanja „Demencija“ (voditelj)

2006/2007 – 2010/2011: nastava iz metodološkog predmeta „Westernska razložba“ (voditelj)

2010/2011 – present/danas: nastava iz metodološkog predmeta „Određivanje koncentracije ukupnih i fosforiliranih tau proteina u cerebrospinalnoj tekućini pomoću ELISA postupka“ (voditelj)

2015/2016 – present/danas: nastava iz predmeta Neurobiološka osnova donošenja odluka na Doktorskom studiju Medicinskog fakulteta Sveučilišta u Zagrebu „Biomedicina i zdravlje“ i Sveučilišnom poslijediplomskom studiju „Neuroznanost / Neuroscience“ (suvoditelj)

2015/2016 – present/danas: nastava iz predmeta Medicinska etika na 5. godini preddiplomskog studija medicine na Medicinskom fakultetu Sveučilišta u Zagrebu

2015/2016 – present/danas: nastava iz predmeta „Kognitivne i neurodegenerativne bolesti“ na Specijalističkom poslijediplomskom studiju iz Neurologije / Neurology

2016/2017 – present/danas: nastava iz predmeta „Dizajniranje istraživanja u biomedicinskim znanostima“ Sveučilišnog poslijediplomskog studija „Neuroznanost / Neuroscience“

2017/2018 – present/danas: nastava iz predmeta Topografska anatomija središnjeg živčanog sustava na Specijalističkom poslijediplomskom studiju iz Neurokirurgije

- redovito ili povremeno sudjeluje i u nastavi iz drugih poslijediplomskih kolegija na Doktorskom studiju Medicinskog fakulteta Sveučilišta u Zagrebu i Sveučilišnog poslijediplomskog studija Neuroznanosti: „Kako postati živčana stanica“, „Izabrana poglavlja epileptologije dječje dobi“, „Molekularni mehanizmi starenja“ i „Proteomika u biomedicinskim istraživanjima“, „Molekularni mehanizmi kontrole staničnog rasta i karcinogeneze“, „Dječja i adolescentna psihijatrija“ ( odabrana poglavlja iz Neuroznanosti), „Kronična maligna bol“, itd.

### **Elected courses / Izborni predmeti**

2006/2007 – present/danas: nastava iz izbornog predmeta „Mozak i stres“ na Medicinskom fakultetu u Zagrebu (do 2008/2009 voditelj predmeta)

2006/2007 – present/danas: nastava iz izbornog predmeta „Učenje i pamćenje“ na Medicinskom fakultetu u Zagrebu (voditelj)

2003/2004 – present/danas: nastava iz izbornog predmeta „Živčana stanica – od zdravlja do bolesti“ na Medicinskom fakultetu u Zagrebu

2012/2013 – present/danas: nastava iz izbornog predmeta „Boli me glava, što ću?“ na Medicinskom fakultetu u Zagrebu

Povremeno drži nastavu i iz drugih izbornih predmeta, npr. „Hitna stanja u medicini“ (Topografska anatomija značajna za hitne medicinske intervencije), „Tjeskoba i kako je se osloboditi“, itd.

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### **Selected activities and memberships / Odabrane aktivnosti i članstva**

- 2017 – present/ danas: član uredničkog odbora časopisa *Frontiers in Behavioral Neuroscience*
- 2017 – present/danas: član predsjedništva Hrvatskog društva za teorijsku i matematičku biologiju
- 2017 – present/danas: član znanstvenog vijeća Hrvatske akademije za znanost i umjetnost (HAZU) za obrazovanje i školstvo
- 2017 (25. IV.) – present/danas: editorial board member / član uredničkog odbora časopisa *Croatian Medical Journal*
- 2017 – present/danas: član vijeća/Member of the Council, *Mediterranean Neuroscience Society*, Vice General Secretary

- 2017 – present/danas: potpredsjednik Matičnog odbora za područje biomedicine i zdravstva Nacionalnog vijeća za znanost, visoko obrazovanje i tehnološki razvoj RH
- 2016 – present/danas: recenzent za Horizon2020 (za linije projekata Societal Changes SC1-2016-2017, napose H2020-SC1-PM-10-2017 - Personalized medicine)
- 2016 – present/danas: član Odbora za neuroznanost i bolesti mozga Razreda za medicinske znanosti Hrvatske akademije znanosti i umjetnosti / Member of the Board for Neuroscience and Brain Diseases, Department of Medical Sciences, Croatian Academy of Sciences and Arts
- 2015 – present/danas: recenzent Nizozemske zaklade za znanost (FWO - ExpertPanel Bio2 - Functional biology),
- 2012 – present/danas: član Hrvatskog društva za Alzheimerovu bolest i psihijatriju starije životne dobi Hrvatskog liječničkog zbora
- 2010 – 22nd May 2017: Editor-in-Chief and Managing Editor of Translational Neuroscience journal / Glavni i odgovorni urednik časopisa Translational Neuroscience
- 2013 – 2015: reviewer za National Institutes of Health (za linije projekata BDA, BDCN, IFCN i MDCN)
- 2015: recenzent Češke zaklade za znanost (Alzheimerova bolest)
- 2014: recenzent Bugarske zaklade za znanost (neuroznanost)
- 2008 - 2013: reviewer for Alzheimer Association (za linije projekata Zenith Award i Investigator-Initiated Research Grants), Chicago, IL, USA
- 2012 - 2013: Evaluator of teaching and medical staff of Harvard Medical School and Massachusetts General Hospital
- 2010-2017: Translational Neuroscience, Founding Editor, Editor-in-Chief and Managing Editor / Osnivač, glavni i odgovorni urednik
- 2010 - 2012: President of the Croatian Ministry of Science Publishing Committee for evaluation of scientific and professional journals and books / Predsjednik Povjerenstva za znanstveno-izdavačku djelatnost MZOŠ RH
- 2009 - 2012: Acta Neuropathologica, Editorial Board Member
- 2006-2008 „mef.hr“ Bulletin of the University of Zagreb Medical School, Editor-in-Chief
- 2005-2006 „mef.hr“ Bulletin of the University of Zagreb Medical School, Guest editor

- President of the Council of the Croatian Society for Alzheimer's disease since 2005, and vice-president of the Croatian Society for Alzheimer's disease since 2007  
<http://www.alzheimer.hr/>
- 2004-2005 National Geographic Croatia (consultant for Neuroscience)
- 2003 – present/danas: *ad hoc* reviewer for ACS Chemical Neuroscience, Acta Histochemica, Acta Neuropathologica, Acta Neuropathologica Communications, Alzheimer's and Dementia, Anatomical Science International (Kaibogaku Zasshi), Annals of New York Academy of Sciences, BMC Medical Genomics, Brain and Behavior, Biomaterials, Cerebral Cortex, Collegium Antropologicum, Croatian Medical Journal, CNS Neuroscience and Therapeutics, Frontiers in Behavioral Neuroscience, International Journal of Experimental Pathology, Journal of Comparative Neurology, Journal of Neuroscience Methods, Journal of Neuroscience Research, Neurobiology of Aging, Neuroscience, and many others
- Member of ENA (European Neuroscience Association) since 1994, from 2000 FENS (Federation of European Neuroscience Societies)
- Od početka (20. VI. 1991.) i za vrijeme Domovinskog rata dragovoljno radio u Glavnom stožeru saniteta RH, te sudjelovao u izradi monografije "Mass killing and genocide in Croatia 1991/1992: A book of evidence" (Hrvatska sveučilišna naklada, Zagreb, 1992)
- 1987-1992: Student-demonstrator for courses Human Anatomy, Medical Biochemistry, Organization and Function of the Central Nervous System / Fundamentals of Neuroscience, Medical Informatics, and co-ordinator of the Student section for application of computers in medicine
- 1987-1989: "Medicinar" (students' journal of the University of Zagreb Medical School), member of the Editorial Board
- 1987-1988: Students' representative in the University of Zagreb Medical School Council

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### **Supervisory activities / Mentorske aktivnosti**

#### **PhD Theses / Doktorski radovi**

1. dr. Marina Boban: „Vrijednost određivanja ukupnog i fosforiliranog tau proteina iz likvora u diferencijalnoj dijagnozi sindroma demencije“ (Medicinski fakultet Zagreb, disertacija obranjena 10. prosinca 2009. godine)
2. dr. Mihovil Mladinov: „Raspodjela i izraženost dopaminskih D2 receptora u prefrontalnoj moždanoj kori čovjeka i miša“ (Medicinski fakultet Zagreb, disertacija obranjena 23. studenog 2016. godine)

3. Mirjana Babić, mag. biol. mol., tema disertacije „Prediktivna vrijednost bioloških biljega u ranom otkrivanju i diferencijalnog dijagnozi Alzheimerove bolesti“ (Poslijediplomski studij Molekularnih bioznanosti Osijek, disertacija obranjena 5. VI. 2017. godine)
4. dr. Spomenka Kiđemet Piskač: „Vrednovanje određivanja ukupnih i fosforiliranih tau proteina u likvoru radi razlikovanja Alzheimerove bolesti i vaskularne demencije“ (Medicinski fakultet Zagreb, disertacija obranjena 21. III. 2018. godine)
5. dr. Danira Bažadona: „Vrednovanje testa skrivenog objekta u ranoj dijagnostici Alzheimerove bolesti“ (Medicinski fakultet Zagreb, tema disertacije odobrena 17. XII. 2012.)
6. dr. sc. Tatjana Trošt-Bobić: „Ipsilateralni i kontralateralni učinci kineziterapije na motoričku funkciju osoba nakon moždanog udara“ (Medicinski fakultet Zagreb, tema disertacije odobrena 29. VI. 2015. godine)
7. Lea Langer Horvat, mag. biol. mol., „Analiza transsinaptičkog prijenosa i agregacije tau proteina nakon intracerebralnog injiciranja tau oligomera u entorinalnu moždanu koru štakora“ (tema disertacije odobrena 12. III. 2018. godine)

#### **Diploma Theses / Diplomski radovi**

1. Stefanie Salamunec (Medical Studies in English, Zagreb School of Medicine): „Analysis of awareness and vigilance as main components of consciousness in selected brain disorders“, 2018
2. Cari Green (Medical Studies in English, Zagreb School of Medicine): „Environmental tauopathies“, 2016
3. Dinko Smilović (Medicinski fakultet Zagreb): „Likvorski biomarkeri YKL-40 i p-tau<sub>181</sub> u ranoj dijagnostici Alzheimerove bolesti“, 2016
4. Katarina Pinjušić (Prirodoslovno-matematički fakultet u Zagrebu): „Utjecaj okadaične kiseline na fosforilaciju proteina tau na epitopima Thr231 i Ser396/Ser404“, 2016
5. Lea Langer (Prirodoslovno-matematički fakultet u Zagrebu): „Utjecaj inhibitora monoaminooksidaze A i B na fosforilaciju tau proteina – terapijski učinak u Alzheimerovoj bolesti“, 2015
6. Ivana Kopčok (Prirodoslovno-matematički fakultet u Zagrebu): „Utjecaj epigalokatehin-3-galata na staničnu smrt izazvanu okadaičnom kiselinom“, 2015
7. Ivana Kuštek (Prirodoslovno-matematički fakultet u Zagrebu): „Ukupni i fosforilirani tau proteini pT231 u likvoru kao biološki biljezi Alzheimerove bolesti“, 2013
8. Dora Polšek (Medicinski fakultet Zagreb): „Nova saznanja o neurorazvojnim poremećajima autističnog spektra“, 2012



9. Domagoj Žaja (Medicinski fakultet Zagreb): „Dopaminergički putevi i receptori“, 2011
10. Katarina Čolak (Medicinski fakultet Zagreb): „Neurobiološka podloga odabira partnera“, 2011
11. Tomislav Jagatic (Medical Studies in English, Zagreb School of Medicine): „A potential therapeutic approach to autism“, 2011
12. Darija Čubelić (Medicinski fakultet Zagreb): „Neurobiološka podloga donošenja rizičnih odluka“, 2011

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### **Organization of meetings / Organizacija skupova**

#### **International / Međunarodnih**

1. The First Summer School of Croatian Institute for Brain Research, Zagreb, 5-7. VII 1999., član organizacijskog odbora
2. International Summer School “Molecular Neurobiology of Aging”, Interuniversity Centre, Dubrovnik, 27-30. VII 2002., suradnik u organizaciji
3. Third International Symposium on Normal and Abnormal Development of the Human Fetal Brain, Zagreb, 13-15. VI 2003., član organizacijskog odbora
4. Third Croatian Congress on Alzheimer’s disease with international participation. Brijuni, 7-10. IX 2006., član organizacijskog odbora i predsjednik znanstvenog odbora
5. First IBRO/FENS Summer School, Dubrovnik & Zagreb, 18.IX – 4. X 2003., član organizacijskog Odbora
6. Second IBRO/FENS Summer School, Zadar & Zagreb, 25. IX – 4. X 2005, član organizacijskog Odbora
7. Fourth Croatian Congress on Alzheimer’s disease with international participation. Rovinj, 8-11. X 2008., član organizacijskog odbora i predsjednik znanstvenog odbora
8. Fifth Croatian Congress on Alzheimer’s disease with international participation. Zadar, 22-25. IX 2010., član organizacijskog odbora i predsjednik znanstvenog odbora
9. Sinapsa Neuroscience Conference, FENS featured regional meeting. Ljubljana, 22-25. IX 2011, član programskog odbora
10. COST CM1103 First WG4 Scientific meeting “Monoamines and drugs: New insights into the brain disorders”, Zagreb, 26-27. IV 2012., su-organizator

11. Sixth Croatian Congress on Alzheimer's disease with international participation. Primošten, 10-13. X. 2012., član organizacijskog odbora i predsjednik znanstvenog odbora
12. HRVATSKI KONGRES O ALZHEIMEROVOJ BOLESTI (*CROCAD-14*) s međunarodnim sudjelovanjem. 1. - 4. X. 2014. Brela, Hrvatska, član organizacijskog odbora i predsjednik znanstvenog odbora
13. HRVATSKI KONGRES O ALZHEIMEROVOJ BOLESTI (*CROCAD-16*) s međunarodnim sudjelovanjem. 5. - 8. X. 2016. Tučepi, Hrvatska, član organizacijskog odbora i predsjednik znanstvenog odbora
14. HRVATSKI KONGRES O ALZHEIMEROVOJ BOLESTI (*CROCAD-18*) s međunarodnim sudjelovanjem. 3. - 6. X. 2018. Novigrad, Hrvatska, član organizacijskog odbora i predsjednik znanstvenog odbora
15. Mediterranean Congress of Neuroscience, Marrakech (Morocco), 2019, member of the program committee

#### **Domestic / Domaćih**

1. Prvi hrvatski kongres neuroznanosti, Zagreb 21-22. XI 2003., član organizacijskog i znanstvenog odbora, ko-urednik zbornika sažetaka
2. Drugi hrvatski kongres neuroznanosti, Zagreb, 18-19. V 2007., član organizacijskog i znanstvenog Odbora, ko-urednik zbornika sažetaka
3. Treći hrvatski kongres neuroznanosti, Zadar, 24-26. IX 2009., član organizacijskog odbora, ko-urednik zbornika sažetaka
4. Četvrti hrvatski kongres neuroznanosti, Zagreb, 20-21. IX. 2013., član organizacijskog odbora
5. Peti hrvatski kongres neuroznanosti, Split, 17-19. IX. 2015. godine, član programskog odbora
6. Prva Edukativna konferencija o Alzheimerovoj bolesti, Zagreb, 7-8. XII. 2015. godine, član organizacijskog odbora
7. Šesti hrvatski kongres neuroznanosti, Osijek, 16-18. IX. 2017. godine, član programskog odbora

8. Sedmi hrvatski kongres neuroznanosti, Zadar, 13. IX. 2019. godine, član organizacijskog odbora

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**Selected memberships in committees of the Zagreb University Medical School and School of Dental Medicine / Članstvo u odborima i povjerenstvima Medicinskog i Stomatološkog fakulteta u Zagrebu**

1. 2016- member of the Admission Committee for Medical Studies in English of the University of Zagreb Medical School
2. 2016- član i potpredsjednik Odbora za Doktorske radove i znanstvena zvanja
3. 2004-2007 član Povjerenstva za izdavačku djelatnost Medicinskog fakulteta u Zagrebu
4. 2007-2010 predsjednik Povjerenstva za nastavne tekstove i izdavačku djelatnost MEF
5. 2007-2009 član Odbora za poslijediplomske studije Stomatološkog fakulteta
6. 2005-2006. član Povjerenstva za Stalno medicinsko usavršavanje MEF
7. 2005-2013. član Povjerenstva za Dokorate i znanstveno-istraživačka zvanja MEF
8. 2001-2013. član Povjerenstva za nastavne tekstove i izdavačku djelatnost MEF

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**Selected book chapters / Odabrana poglavlja u knjigama**

1. Jazvinščak Jembrek, M., Newberg, K., **Šimić, G.**  
The role of p53 in Alzheimer's disease: impact on tau pathology  
In: "Pathology, prevention and therapeutics of neurodegenerative disease" (Singh S., Joshi N., eds.), Springer Nature Pte Ltd., Singapore, 2019, pp. 39-48.
2. **Šimić, G.**  
Što je demencija čeonog režnja i po čemu se razlikuje od Alzheimerove bolesti?  
U: "Uloga obiteljskog liječnika u zaštiti zdravlja osoba s demencijom" (ur. Klepac N., Mimica N., Cerovečki N.), Medicinska naklada, Zagreb, 2018, pp. 31-42.
3. **Šimić, G.**, Babić Leko M.  
Neurovaskularna jedinica, mikrokrvarenja, limfatički i glimfatički sustav kao ishodišta za nastanak moždanog udara, Alzheimerove bolesti, autoimunog encefalitisa i multiple skleroze  
U: "*Praktičan pristup bolesniku s demencijom*" (ur. Klepac N., Borovečki F.), Medicinska naklada, Zagreb, 2017, pp. 19-29.

4. Babić Leko, M., Bažadona, D., **Šimić, G.**  
Metode rane dijagnostike Alzheimerove bolesti  
U: *"Alzheimerova bolest i druge demencije: rano otkrivanje i zaštita zdravlja"* (ur. Tomek-Roksandić S., Mimica N., Kušan Jukić M.), Medicinska naklada, Zagreb, 2017, pp. 56-62.
5. **Šimić, G.**  
Biološki biljezi u likvoru u frontotemporalnoj demenciji s kratkim osvrtom na diferencijalnu dijagnozu naspram Alzheimerove bolesti  
U: *"Praktičan pristup bolesniku s demencijom"* (ur. Klepac N., Borovečki F.), Medicinska naklada, Zagreb, 2016, pp. 7-9.
6. **Šimić, G.**  
Likvorski biomarkeri u dijagnostici demencije  
U: *"Praktičan pristup bolesniku s demencijom"* (ur. Klepac N., Borovečki F.), Medicinska naklada, Zagreb, 2015, pp. 1-6.
7. Jazvinščak Jembrek, M., Babić, M., Pivac, N., **Šimić, G.**  
Interplay between A $\beta$ , ceramides and hyperphosphorylated tau in Alzheimer's disease  
(2015) In: *"Sphingomyelin and ceramides: occurrence, biosynthesis and role in disease"* (Watkins, C., Ed.), Nova Science Publishers, New York, 2015, pp. 53-84.
8. Mimica, N., Glamuzina, K., Vučić, K., Gatin, M., Dajčić, M., Dajčić, T., **Šimić, G.**, Mladinov, M., Treščec Ivičić, M., Novy-Radonić, E.  
Art therapy for people with dementia – case report  
(2010) In: *Book of International Proceedings of 25<sup>th</sup> International Conference of Alzheimer's Disease International* (ed. Tsolaki, M.)  
Medimond S.r.l., Thessaloniki, pp. 95-99.
9. **Šimić, G.**, Boban, M., Šarac, H., Grbić, K., Hof, P.R., Hamann, C., Ackl, N., Bader, B., Danek, A.  
CSF tau proteins in evaluation of patients with suspected dementia  
(2008) In: *New Trends in Alzheimer and Parkinson related disorders – ADPD 2007*  
Medimond S.r.l., Bologna, pp. 239-243.
10. **Šimić, G.**  
Neuroanatomija ponašanja  
(2006) U: *Biološke osnove i terapija ponašanja* (ur. Kocijan Hercigonja, D.)  
Školska knjiga, Zagreb, pp. 5-44. Udžbenik Sveučilišta u Zagrebu.
11. **Šimić, G.**  
Neurobiologija demencije  
(2006) U: *Biološke osnove i terapija ponašanja* (ur. Kocijan Hercigonja, D.)  
Školska knjiga, Zagreb, pp. 185-211. Udžbenik Sveučilišta u Zagrebu.
12. **Šimić, G.**  
Klinički slučaj epiduralnog hematoma

(2004) U: *Anatomija čovjeka* (ur. Krmpotić- Nemanić J, Marušić A), Središnji živčani sustav Medicinska naklada, Zagreb, pp. 473-474. Udžbenik Sveučilišta u Zagrebu.

**13. Šimić, G.**

Klinički slučaj oštećenja radijalnog živca

(2004) U: *Anatomija čovjeka* (ur. Krmpotić- Nemanić J, Marušić A), Periferni živčani sustav Medicinska naklada, Zagreb, p. 528. Udžbenik Sveučilišta u Zagrebu.

**14. Šimić, G.**

Klinički slučaj traume oka

(2004) U: *Anatomija čovjeka* (ur. Krmpotić- Nemanić J, Marušić A), Osjetni organi Medicinska naklada, Zagreb, pp. 558-559. Udžbenik Sveučilišta u Zagrebu.

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**Selected popular science articles / Odabrani popularno-znanstveni članci**

1. **Šimić, G.** (2014) Nobelova nagrada za mozgovni GPS: uvod u razumijevanje dugoročnog pamćenja. *mef.hr* 33 (2), pp. 69-70.
2. Babić, M., **Šimić, G.** (2012) Proteomska analiza cerebrospinalne tekućine u Alzheimerovoj bolesti. *Medix* 101/102, pp. 169-173.
3. Mimica, N., Pecotić, Z., **Šimić, G.**, Dajčić, M., Mimica, N., Treščec Ivičić, M., Presečki, P., Klepac, N., Boban, M., Ivkić, G., Drmić, S., Dajčić, T. (2012) Hrvatska udruga za Alzheimerovu bolest – od osnivanja do punopravnog članstva u međunarodnim krovnim asocijacijama. *Medix* 101/102, pp. 224-227.
4. **Šimić, G.** (2010) Introducing the journal “Translational Neuroscience”. *mef.hr* 29 (1), pp. 36-37.
5. **Šimić, G.** (2010) Translacijska istraživanja Alzheimerove bolesti jučer, danas i sutra. *mef.hr* 1: 41-42.
6. **Šimić, G.** (2007) “Zrcalni neuroni” i važnost socijalne uključenosti dementnih bolesnika u “ponovnom učenju” (15. III. 2007.) [www.plivamed.net](http://www.plivamed.net) (Plivin medicinski portal)
7. **Šimić, G.** (2005) Personality, research and teaching. *mef.hr* 1, p. 43.
8. **Šimić, G.** (2005) Mnemotehnička načela: Informacije koje se žele zapamtiti treba „obojiti“ (1. VI. 2005.) [www.plivamed.net](http://www.plivamed.net) (Plivin medicinski portal)
9. **Šimić, G.** (2004) Stres naš svagdašnji. *Vaše zdravlje* 35, pp. 10-13.
10. **Šimić, G.** (2003) Starenje i mozak: od evolucijskih teorija do molekularnih mehanizama. *Medika* 76, pp. 20-27.

11. Šimić, G. (2000) Alzheimerova bolest. *Medix* 27, pp. 57-59.
12. Šimić, G. (1996) Kako uspješnije učiti? *Medicinar* 38, pp. 19-23.

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### Translations / Prijevodi

1. Šimić, G., Čolović O. (2017) Poglavlje 6. Završne misli. *Experimental Design for the Life Sciences*, second edition. Ruxton GD, Colegrave N (eds) Oxford University Press, New York; Dizajniranje istraživanja u biomedicinskim znanostima. Jovanov Milošević N (ur. hrv. izdanja), Zagreb: Medicinska naklada, prijevod s engleskog jezika. Udžbenik Sveučilišta u Zagrebu, pp. 124-153.
2. Šimić, G. (2010) Citoskelet i stanično kretanje. *The Cell: A Molecular Approach*, fifth edition. Cooper GM, Hausman RE (eds.); Stanica: Molekularni pristup. Lauc, G. (ur. hrv. izdanja), Zagreb: Medicinska naklada, prijevod s engleskog jezika. Udžbenik Sveučilišta u Zagrebu.
3. Šimić, G. (2009) Systema nervosum centrale, središnji živčani sustav, encephalon, mozak, medulla spinalis, kralježnična moždina. *Waldeyer Anatomie des Menschen*, Waldeyer A, Fanghnel J, Pera E, Anderhuber F, Nitsch R (eds.), Walter de Gruyter, Berlin. *Waldayerova anatomija čovjeka*, Vinter, I. (ur. hrv. izdanja). *Golden marketing – Tehnička knjiga*, Zagreb, pp. 369-433, prijevod s njemačkog jezika. Udžbenik Sveučilišta u Zagrebu, Osijeku, Rijeci i Mostaru.
4. Šimić, G. (2004) Citoskelet i stanično kretanje (poglavlje 11). *The Cell: A Molecular Approach*, third edition. Cooper GM, Hausman RE (eds); Stanica: Molekularni pristup. Lauc, G. (ur. hrv. izdanja), Zagreb: Medicinska naklada. pp. 435-482, prijevod s engleskog jezika. Udžbenik Sveučilišta u Zagrebu.

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### Selected book reviews / Odabrane recenzije knjiga

1. Šimić, G. (2001) Tanaka C, McGeer PL, Ihara Y (eds.). *Neuroscientific basis of dementia*. Basel: Birkhäuser. *Croatian Medical Journal* 42, p. 348.
2. Šimić, G. (2002) Gellatly A, Zarate O: *Introducing mind and brain*. Icon Books, Cambridge, U.K. Stručna redakcija prijevoda, *Naklada Jesenski i Turk*, Zagreb.
3. Šimić, G. (2003) Kahle W, Frotscher M. *Color Atlas and Textbook of Human Anatomy*, Volume 3: Nervous System and Sensory Organs. *Croatian Medical Journal* 44, 504.
4. Šimić, G. (2005) Stafford T, Webb M: *Mind hacks. Tips & tools for using your brain*. O'Reilly Media Inc. Stručna redakcija prijevoda. *Naklada Jesenski i Turk*, Zagreb.

5. **Šimić, G.** (2010) Anatomija i fiziologija oka (Rotim, K., Kudelić, N., Saftić, R.), Veleučilište Velika Gorica.
6. **Šimić, G.** (2011) Harperova ilustrirana biokemija (Murray, R.K., et al., eds), recenzent prijevoda (Lovrić, J. et al., ur. hrv. izdanja)

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**Selected honors / Odabrana priznanja i nagrade**

1. 2016 Annual State Award for Biomedical Sciences / Godišnja nagrada za znanost Republike Hrvatske – za biomedicinske znanosti
2. 2012 and 2014 Zagreb University Medical School Award for Scientific Excellence / Nagrada Medicinskog fakulteta Sveučilišta u Zagrebu za znanstvenu izvrsnost
3. 2011 Certificate of Appreciation and Award from the University of Zagreb Medical School for outstanding scientific productivity in the project period 2007-2011 and as the leader of the research group / Nagrada Medicinskog fakulteta Sveučilišta u Zagrebu voditelju istraživačke skupine za izvanrednu znanstvenu produktivnost u razdoblju 2007-2011. godine
4. 2011 Special Recognition Award from the Croatian Medical Chamber for Outstanding Research on Spinal Muscular Atrophy / Posebno priznanje Hrvatske liječničke komore za izvanredna postignuća u istraživanjima spinalne mišićne atrofije
5. 2010 Annual State Award for Popularization of Biomedical Sciences / Državna nagrada za popularizaciju znanosti – za biomedicinske znanosti
6. 2009 Annual Award of the Croatian Academy of Sciences and Art for Medical Sciences / Godišnja nagrada Hrvatske akademije znanosti i umjetnosti (HAZU) – za medicinske znanosti
7. 2008 Kurt Jellinger Prize from Acta Neuropathologica and Springer Verlag / Međunarodna nagrada Kurt Jellinger za najbolji rad/otkriće koji opisuje/otkriva mehanizam nastanke neke bolesti mozga (spinalne mišićne atrofije)
8. 2002 Scholarship from RIKEN Brain Science Institute, Tokyo, Japan / stipendija RIKEN instituta za znanost o mozgu
9. 2001, 2004 Miroslav Čačković-Vrhovinski Award for the best teachers of the University of Zagreb Medical School / Nagrada Miroslav Čačković-Vrhovinski za najbolje nastavnike Medicinskog fakulteta Sveučilišta u Zagrebu
10. 2001, 2002, 2004 Scholarship from British Council, Wrexham, UK / Stipendija British Councila

- 11.** 2000 Fellowship from Northwestern University, Chicago, IL, USA / Stipendija Northwestern sveučilišta u Chicagu, S.A.D.
  - 12.** 1999 Annual State Award for the Best Young Scientist in Biomedical Sciences / Godišnja nagrada za znanstvene novake Republike Hrvatske – za biomedicinske znanosti
  - 13.** 1998 Annual Award of the Croatian Medical Association for the Best Research Paper in Clinical Medical Sciences / Godišnja nagrada Hrvatskog Liječničkog Zbora za najbolji znanstveni članak u području kliničkih medicinskih znanosti
  - 14.** 1994, 1995, 1997 Scholarships from Karolinska institute, Stockholm, Sweden / Stipendija Karolinska institute u Stockholmu, Švedska
  - 15.** 1992 Scholarship from Austrian Government, Ludwig-Boltzmann Institute for Neurodegenerative diseases, Lainz Hospital, Vienna, Austria / Stipendija Vlade Republike Austrije
  - 16.** 1991 Scholarship from IFMSA (International Federation of Medical Students Association), Cajal Intitute, Madrid, Spain / Stipendija Međunarodne asocijacije studenata medicine
  - 17.** 1990, 1991 Rector's Award for the Best Student Research Paper, University of Zagreb / Prvomajska (1990) i Svibanjska nagrada Rektora Sveučilišta u Zagrebu za najbolji studentski znanstveni rad
2015. godine – završen tečaj za osposobljavanje za rad s pokusnim životinjama – kategorija 3 (FELASA b – voditelji pokusa i istraživanja)