

# Gordana Matić – Bibliografija (1979-2017)

## Monografije

1. **Gordana Matić**, Ana Djordjevic, Nataša Veličković & Goran Korićanac: *Molekularni mehanizmi prenosa signala kroz ćeliju*. Velarta, Beograd, 2012, ISBN 978-86-7138-178-6.
2. Nikola Tucić & **Gordana Matić**: *O genima i ljudima*. Centar za primenjenu psihologiju, Beograd, 2002, ISBN 86-83797-03-1.

## Univerzitetski udžbenici

1. Dušanka Savić Pavićević & **Gordana Matić**: *Molekularna biologija 1*. NNK Internacional, Beograd, 2011, ISBN 978-86-6157-001-8.
2. **Gordana Matić**: *Osnovi molekularne biologije*. Zavet, Beograd, 1996, ISBN 86-7034-024-0.

## Naučni radovi

### Kategorija M21a

1. Adzic, M., Lukic, I., Mitic, M., Djordjevic, J., Elaković, I., Djordjevic, A., Krstic-Demonacos, M., **Matić, G.** & Radojic, M.: Gender-specific roles of phospho-glucocorticoid and estrogen receptors in prefrontal cortex mitochondrial processes in response to stress and fluoxetine. *Psychoneuroendocrinol.*, 2013, 38: 2914-2924. (IF=5,591; 13/186 Psychiatry)
2. Savić, D., Knežević, G., Damjanovic, S., Spiric, Z. & **Matic, G.**: The Role of Personality and Traumatic Events in Cortisol Levels – Where Does PTSD Fit In? *Psychoneuroendocrinol.*, 2012, 37: 937-947. (IF=5,137; 16/185 Psychiatry)
3. Savic, D., Knezevic, G., Damjanovic, S., Spiric, Z., **Matic, G.**: Is there a biological difference between trauma-related depression and PTSD? DST says 'NO'. *Psychoneuroendocrinol.*, 2012, 37: 1516-1520. (IF=5,137; 16/185 Psychiatry)
4. Manitašević, S., Dundjerski, J., **Matić, G.** & Tucić, B.: Seasonal variation in heat shock proteins Hsp70 and Hsp90 expression in an exposed and a shaded habitat of *Iris pumila*. *Plant Cell Environment*, 2007, 30: 1-11. (IF=4,497; 9/152 Plant Sciences)
5. Hutchison, K. A., **Matić, G.**, Meshinchi, S., Bresnick, E.H. & Pratt, W.B.: Redox manipulation of DNA binding activity and BuGR epitope reactivity of the glucocorticoid receptor. *J. Biol. Chem.*, 1991, 266: 10505-10509. (IF=6,733; 14/157 Biochemistry & Molecular Biology)

6. Meshinchi, S., **Matić, G.**, Hutchison, K. A. & Pratt, W. B.: Selective molybdate-directed covalent modification of sulfhydryl groups in the steroid-binding versus the DNA-binding domain of the glucocorticoid receptor. *J. Biol. Chem.*, 1990, 265: 11643-11649. (IF=6,733; 14/157 [Biochemistry & Molecular Biology](#))

### Kategorija M21

7. Kovačević, S., Nestorov, J., **Matić, G.**, Elaković, I.: Fructose-enriched diet induces inflammation and reduces antioxidative defense in visceral adipose tissue of young female rats. *Eur. J. Nutr.*, 2017, 56: 151-160. (IF=4,370; 14/81 [Nutrition & Dietetics](#))
8. Kovačević, S., Nestorov, J., **Matić, G.**, Elaković, I.: Fructose and stress induce opposite effects on lipid metabolism in visceral adipose tissue of adult female rats through glucocorticoid action. *Eur. J. Nutr.*, 2017, 56(6): 2115-2128. (IF=4,370; 14/81 [Nutrition & Dietetics](#))
9. Djordjević, A., Bursać, B., Veličković, N., Gligorovska, Lj., Ignjatović, Dj., Tomić, M., **Matić, G.**: Disturbances of systemic and hippocampal insulin sensitivity in MIF<sup>-/-</sup> mice lead to behavioral changes associated with decreased PSA-NCAM levels. *Hormones and Behavior* 2017, 96: 95-103. (IF=3,378; 10/51 [Behavioral Sciences](#))
10. Nikolić, M., Macut, Đ., Djordjevic, A., Veličković, N., Bursać, B., BožićAntić, I., Bjekić Macut, J., **Matić, G.**, Vojnović Milutinović, D.: The role of enhanced glucocorticoid signaling in the regulation of lipid metabolism in the visceral adipose tissue of PCOS rat model induced by 5 $\alpha$ -dihydrotestosterone. *Molec. Cell Endocrinol.*, 2015, 399: 22-31. (IF=3,859; 34/133 [Endocrinology & Metabolism](#))
11. Glban, A., Vasiljević, A., Veličković, N., Nikolić-Kokić, A., Blagojević, D., **Matić, G.** & Nestorov, J.: The expression and activity of antioxidant enzymes in the liver of rats exposed to high-fructose diet in period from weaning to adulthood. *J. Sci. Food Agriculture*, 2015, 95: 2319-2324. (IF=2,076; 37/125 [Food Science & Technology](#))
12. Knezevic, G., **Matic, G.**, Damjanović, S., Spiric, Z & Savic, D.: Posttraumatic and depressive symptoms in  $\beta$ -endorphin dynamics. *J. Affective Disorders*, 2015, 181:61-66. (IF=3,570; 37/200 [Psychiatry](#))
13. Bursać, B., Vasiljević, A., Nestorović, N., Veličković, N., Vojnović Milutinović, D., **Matić, G.** & Djordjevic, A.: High-fructose diet leads to visceral adiposity and hypothalamic leptin resistance in male rats - do glucocorticoids play a role? *J. Nutr. Biochem.*, 2014, 25: 446-455. (IF=3,794; 85/290 [Biochemistry & Molecular Biology](#))
14. Kovačević, S., Nestorov, J., **Matić, G.** & Elaković, I: Dietary fructose-related obesity and glucocorticoid receptor function in visceral adipose tissue of female rats. *Eur. J. Nutr.*, 2014, 53: 1409-1420. (IF=4,467; 16/77 [Nutrition & Dietetics](#))
15. Vasiljević, A., Bursać, B., Djordjevic, A., Vojnović Milutinović, D., Nikolić, M., **Matić, G.** & Veličković, N.: Hepatic inflammation induced by high fructose diet coincides with an enhancement of glucocorticoid prereceptor metabolism. *Eur. J. Nutr.*, 2014, 53: 1409-1420. (IF=4,467; 16/77 [Nutrition & Dietetics](#))

16. Savic, D., Knezevic, G., Damjanovic, S., Antic, J., **Matic, G.**: GR gene BclI polymorphysm changes the path, but not the level, of dexamethasone-induced cortisol suppression. *J. Affective Disorders*, 2014, 168: 1-4. (IF=3,383; 45/194 [Psychiatry](#))
17. **Matić, G.**, Vojnović Milutinović, D., Nestorov, J., Elaković, I., Manitašević Jovanović, S., Perišić, T., Dunderski, J., Damjanović, S., Knežević, G., Špirić, Ž., Vermetten, E. & Savić, D.: Lymphocyte glucocorticoid receptor expression level and hormone binding properties differ between war trauma-exposed men with and without PTSD. *Progress Neuro-Psychopharmacol. Biol. Psychiatry*, 2013, 43: 238-245. (IF=4,025; 29/186 [Psychiatry](#))
18. Bursać, B., Djordjevic, A., Vasiljević, A., Vojnović Milutinović, A., Veličković, N., Nestorović, N. & **Matić, G.**: Fructose consumption enhances glucocorticoid action in rat visceral adipose tissue. *J. Nutr. Biochem.*, 2013, 24: 1166-72. (IF=4,592; 66/291 [Biochemistry & Molecular Biology](#))
19. Veličković, N., Djordjevic, A., Vasiljević, A., Bursać, B., Vojnović Milutinović, D. & **Matić, G.**: Tissue-specific regulation of inflammation by macrophage migration inhibitory factor and glucocorticoids in fructose-fed Wistar rats. *Brit. J. Nutrition*, 2013, 110: 456-465. (IF=3,342; 21/79 [Nutrition & Dietetics](#))
20. Vasiljević, A., Veličković, N., Bursać, B., Djordjevic, A., Vojnović Milutinović, D., Nestorović, N. & **Matić, G.**: Enhanced prereceptor glucocorticoid metabolism and lipogenesis impair insulin signaling in the liver of fructose-fed rat. *J. Nutr. Biochem.*, 2013, 24: 1790-1797. (IF=4,592; 66/291 [Biochemistry & Molecular Biology](#))
21. Djordjevic, A., Djordjevic, J., Elaković, I., Adzic, M., **Matić, G.** & Radojcic, M.: Fluoxetine affects hippocampal plasticity, apoptosis and depressive-like behavior of chronically isolated rats. *Progress Neuro-psychopharmacol. Biol. Psychiatry*, 2012, 36: 92-100. (IF=3,552; 32/185 [Psychiatry](#))
22. Djordjevic, A., Vojnović Milutinović, D., Tanić, N., Bursać, B., Vasiljević, A., Velickovic, N., Elaković, I. & **Matić, G.**: Identification of suitable reference genes for gene expression studies in liver and adipose tissue from fructose-fed rats. *Advanced Science Letters*, 2012, 5: 560-565. (IF=1,253; 15/59 [Multidisciplinary Sciences](#))
23. Damjanovic, S. S., Antić, J. A., Ilić, B.B., Beleslin Cokic, B., Ivović, M., Ognjanovic, S. I., Isailovic, T. V., Popovic, B. M., Bozic, I. B., Tatic, S., **Matic, G.**, Todorovic, V. N. & Paunovic, I.: Glucocorticoid Receptor and Molecular Chaperones in the Pathogenesis of Adrenal Incidentalomas: Potential Role of Reduced Sensitivity to Glucocorticoids. *Molec. Medicine*, 2012, 18: 1456-1465. (IF=4,469; 66/290 [Biochemistry & Molecular Biology](#))
24. Veličković, N., Đorđević, A., **Matić, G.** & Horvat, A.: Radiation-induced hyposuppression of the hypothalamic-pituitary-adrenal axis is associated with alterations of hippocampal corticosteroid receptors expression. *Radiat. Res.*, 2008, 169: 397-407. (IF=3,043; 22/92 [Radiology, Nuclear Medicine & Medical Imaging](#))

25. Elaković, I., Brkljačić, J. & **Matić, G.**: Long-term imipramine treatment affects rat brain and pituitary corticosteroid receptors and heat shock proteins levels in a gender-specific manner. *J. Neural Transmission*, 2007, 114: 1069-1080. (IF=2,672; 43/146 [Clinical Neurology](#))
26. **Matić, G.**, Trajković, D., Damjanović, S. & Petrović, J.: Modifications of rat liver glucocorticoid receptor by insulin-induced hypoglycemia. *Biochim. Biophys. Acta*, 1990, 1051: 192-198. (IF=3,171; 84/310 [Biochemistry & Molecular Biology](#))

## Kategorija M22

27. Djordjevic, A., Bursać, B., Veličković, N., Vasiljević, A. & **Matić, G.**: The impact of different fructose overloads on plasticity and inflammation in the hippocampus of fructose-fed rat. *Nutr. Neurosci.*, 2015, 18: 66-75. (IF=2,616; 34/80 [Nutrition & Dietetics](#))
28. Tepavčević, S., Vojnović Milutinović, D., Macut, Dj., Stojilković, M., Nikolić, M., Božić-Antić, Ćulafić, T., Bjekić-Macut, J., **Matić, G.** & Korićanac, G.: Cardiac fatty acid uptake and metabolism in the rat model of polycystic ovary syndrome. *Endocrine*, 2015, 50: 193-201. (IF=3,279; 51/133 [Endocrinology & Metabolism](#))
29. Tepavčević, S., Vojnović Milutinović, D., Macut, Dj., Žakula, Z., Nikolić, M., Božić-Antić, I., Romić, S., Bjekić-Macut, J., **Matić, G.** & Korićanac, G.: Dihydrotestosterone deteriorates cardiac insulin signaling and glucose transport in the rat model of polycystic ovary syndrome. *J. Steroid Biochem. Molec. Biol.*, 2014, 141: 71-76. (IF=3,628; 90/290 [Biochemistry & Molecular Biology](#))
30. **Matić, G.**, Vojnović Milutinović, D., Nestorov, J., Elaković, I., Manitašević Jovanović, S., Elzaedi, Y., Perišić, T., Dunderski, J., Damjanović, S., Knežević, G., Špirić, Ž., Vermetten, E. & Savić, D.: Mineralocorticoid receptor and heat shock protein expression levels in peripheral lymphocytes from war trauma exposed men with and without PTSD. *Psychiatry Research*, 2014, 215: 379-385. (IF=2,467; 65/194 [Psychiatry](#))
31. Nestorov, J., Glban, A.M., Mijušković, A., Nikolić-Kokić, A., Elaković, I., Veličković, N. & **Matić, G.**: Long-term fructose-enriched diet introduced immediately after weaning does not induce oxidative stress in the rat liver. *Nutr. Res.*, 2014, 34: 646-652. (IF=2,472; 37/77 [Nutrition & Dietetics](#))
32. Djordjevic, A., Djordjevic, J., Elaković, I., Adzic, M., **Matić, G.** & Radojcic, M.: Effects of fluoxetine on plasticity and apoptosis evoked by chronic social isolation in the rat prefrontal cortex. *Eur. J. Pharmacol.*, 2012, 693: 37-44. (IF= 2,592; 105/261 [Pharmacology & Pharmacy](#))
33. Elaković, I., Djordjevic, A., Adzic, M., Djordjevic, J., Radojčić, M. & **Matić, G.**: Gender-specific response of brain corticosteroid receptors to stress and fluoxetine. *Brain Res.*, 2011, 1384: 61-68. (IF=2,728; 126/244 [Neurosciences](#))
34. Djordjevic, J., Djordjevic, A., Adzic, M., Elaković, I., **Matić, G.** & Radojcic, M.: Fluoxetine affects antioxidant system and promotes apoptotic signaling in Wistar rat liver. *Eur. J. Pharmacol.*, 2011, 659: 61-66. (IF= 2,516; 108/261 [Pharmacology & Pharmacy](#))

35. Adzic, M., Djordjevic, J., Mitic, M., Simic, I., Rackov, G., Djordjevic, A., Elakovic, I., **Matic, G.** & Radojcic, M.: Fluoxetine decreases glutathione reductase in erythrocytes of chronically isolated Wistar rats. *Acta Chimica Slovenica*, 2011, 58: 785-791. (IF=1,328; 77/154 [Chemistry, Multidisciplinary](#))
36. Manitašević Jovanović S., Tucić, B. & **Matić, G.**: Differential expression of heat shock proteins Hsp70 and Hsp90 in vegetative and reproductive tissues of *Iris pumila*. *Acta Physiologiae Plantarum*, 2011, 33: 233-240. (IF=1,639; 78/190 [Plant Sciences](#))
37. Brkljačić, J., Tanić, N., Vojnović Milutinović, D., Elaković, I., Manitašević Jovanović, S., Perišić, T., Dundjerski, J. & **Matić, G.**: Validation of endogenous controls for gene expression studies in peripheral lymphocytes from war veterans with and without PTSD. *BMC Molecular Biology*, 2010, 11: 26. (IF=3,188; 122/286 [Biochemistry & Molecular Biology](#))
38. Elaković, I., Vasiljević, Đ., Adžić, M., Đorđević A., Đorđević J., Radojčić M. and **Matić, G.**: Sexually dimorphic functional alterations of rat hepatic glucocorticoid receptor in response to fluoxetine. *Eur. J. Pharmacol.*, 2010, 632: 79-85. (IF=2,737; 90/252 [Pharmacology & Pharmacy](#))
39. Elaković, I., Brkljačić, J. & **Matić, G.**: Gender-related differences in the effects of antidepressant imipramine on glucocorticoid receptor binding properties and association with heat shock proteins in the rat liver and kidney. *Eur. J. Pharmacol.* 2009, 608: 7-13. (IF=2,585; 101/235 [Pharmacology & Pharmacy](#))
40. Perišić, T., Srećković, M. & **Matić, G.**: An imbalance in antioxidant enzymes and stress proteins in childhood asthma. *Clin. Biochem.*, 2007, 40: 1168-1171. (IF=2,072; 9/26 [Medical Laboratory Technology](#))
41. Brkljačić, J., Perišić, T., Dundjerski, J. & **Matić, G.**: Interaction of rat renal glucocorticoid receptor with Hsp90 and Hsp70 upon stress provoked by mercury. *J. Appl. Toxicol.*, 2007, 27: 43-50. (IF=1,942; 37/73 [Toxicology](#))
42. Dundjerski, J., Brkljačić, J., Elaković, I., Manitašević, S & **Matić, G.**: Mercury influences rat liver tyrosine aminotransferase activity and induction by dexamethasone. *J. Appl. Toxicol.*, 2006, 26: 187-190. (IF=1,625; 45/75 [Toxicology](#))
43. Čvoro, A. & **Matić, G.**: Hyperthermic stress stimulates the association of both constitutive and inducible isoforms of 70 kDa heat shock protein with rat liver glucocorticoid receptor. *Int. J. Biochem. Cell Biol.*, 2002, 34: 279-285. (IF=3,044; 80/265 [Biochemistry & Molecular Biology](#))
44. Elez, D., Dundjerski, J. & **Matić, G.**: Cadmium affects the redox state of rat liver glucocorticoid receptor. *Cell Biol. Toxicol.*, 2001, 17: 169-177. (IF=1,177; 45/78 [Toxicology](#))
45. Dundjerski, J., Kovač, T., Pavković, N., Čvoro, A. & **Matić, G.**: Glucocorticoid receptor-Hsp90 interaction in the liver cytosol of cadmium-intoxicated rats. *Cell Biol. Toxicol.*, 2000, 16: 375-383. (IF=1,107; 45/77 [Toxicology](#))
46. Čvoro, A., Dundjerski, J., Trajković, D. & **Matić, G.**: Association of the rat liver glucocorticoid receptor with Hsp90 and Hsp70 upon whole body hyperthermic stress. *J. Steroid Biochem. Molec. Biol.*, 1998, 67: 319-325. (IF=1,926; 129/295 [Biochemistry & Molecular Biology](#))



47. Dundjerski, J., Butorović, B., Kipić, J., Trajković, D. & **Matić, G.**: Cadmium affects the activity of rat liver tyrosine aminotransferase and its induction by dexamethasone. Arch. Toxicol., 1996, 70: 390-395. (IF=1,068; 30/63 Toxicology)
48. Hutchison, K. A., **Matić, G.**, Czar, M. J. & Pratt, W. B.: DNA-binding and non-DNA-binding forms of the transformed glucocorticoid receptor. J. Steroid Biochem. Mol. Biol., 1992, 41: 715-718. (IF=1,259; 34/61 Endocrinology & Metabolism)
49. **Matić, G.**, Trajković, D., Šuša, M., Damjanović, S. & Petrović, J.: *In vitro* evidence for modification of rat liver glucocorticoid receptor binding properties and transformation by hyperthermia. J. Steroid Biochem., 1989, 32: 263-270. (IF=1,319; 26/52 Endocrinology & Metabolism)
50. Kanazir, D., Ribarac-Stepić, N., Trajković, D., **Blečić, G.**, Radojčić, M., Metlaš, R., Stefanović, D., Katan, M., Perišić, O., Popić, S. & Djordjević-Marković, R.: The structure and regulatory function(s) of cortisol receptor. 1: Extragenomic effects dependent on the cortisol receptor activation. J. Steroid Biochem., 1979, 11: 389-400. (IF=1,695; 20/41 Endocrinology & Metabolism)

### Kategorija M23

51. Vojnović Milutinović, D., Nikolić, M., Veličković, N., Djordjevic, A., Bursać, B., Nestorov, J., Teofilović, A., Božić Antić, I., Bjekić Macut, J., Shirif Zidane, A., **Matić, G.**, Macut, Dj.: Enhanced inflammation without impairment of insulin sensitivity in the visceral adipose tissue of 5 $\alpha$ -dihydrotestosterone-induced animal model of polycystic ovary syndrome. Exptl. Clin. Endocrinol. Diabetes, 2017, 125: 522-529. (**M23**; IF=1,685; 111/138 Endocrinology & Metabolism)
52. Nikolic, M., Velickovic, N., Djordjevic, A., Bursac, B., Macut, Dj., Bozic-Antic, I., Bjekic-Macut, J., **Matic, G.**, Vojnovic-Milutinovic, D.: 5 Alpha-dihydrotestosterone treatment induces metabolic changes associated with polycystic ovary syndrome without interfering with hypothalamic leptin and glucocorticoid signaling. Arch. Biol. Sci. 2016, 68: 473-481. (**M23**; IF=0,352; 79/85 Biology)
53. Teofilović, A., Bursać, B., Djordjevic, A., Vojnović Milutinović, D., **Matić, G.**, Veličković, N.: High dietary fructose load aggravates lipid metabolism in the liver of Wistar rats through imbalance between lipogenesis and fatty acid oxidation. Turkish J Biol., 2016, 40: 1235-1242. (**M23**; IF=1,038; 58/85 Biology)
54. Macut, Dj., Božić Antić, I., Nestorov, J., Topalović, V., Bjekić Macut, J., Panidis, D., Kastratović Kotlica, B., Papadakis, E., **Matić, G.** & Vojnović Milutinović, D.: The influence of combined oral contraceptives containing drospirenone on the hypothalamic-pituitary-adrenocortical axis activity and glucocorticoid receptor expression and function in women with polycystic ovary syndrome. Hormones: Int. J. Endocrinol. Metab., 2015, 14: 109-117. (**M23**; IF=1,190; 119/133 Endocrinology & Metabolism)
55. Tepavčević, S., Vojnović Milutinović, D., Macut, Dj., Stanišić, J., Nikolić, M., Božić-Antić, I., Rodaljević, S., Bjekić-Macut, J., **Matić, G.** & Korićanac, G.: Cardiac nitric oxide synthases and Na<sup>+</sup>/K<sup>+</sup>-ATPase in the rat model of polycystic ovary syndrome induced by dihydrotestosterone. Exp. Clin. Endocrinol. Diabetes, 2015, 123: 303-307. (**M23**; IF=1,665; 106/133 Endocrinology & Metabolism)

56. Vojnović Milutinović, D., Macut, Đ., Božić Antić, I., Bjekić Macut, Đ., Nikolić, M., **Matić, G.** & Nestorov, J.: Hypoxanthine guanine phosphoribosyl transferase is the most stable reference gene for quantitative PCR in peripheral blood mononuclear cells from women with polycystic ovary syndrome. *J. Med. Biochem.*, 2014, 33: 356-363. ([M23; IF=1,045; 257/290 Biochemistry & Molecular Biology](#))
57. Vojnović Milutinović, D., Nestorov, J., Nikolić, M., Dinić, J., Djordjevic, A., Veličković, N., Elaković, I. & **Matić, G.**: Leptin and glucocorticoid signaling in the hypothalamus of female and male fructose-fed rat. *Arch. Biol. Sci. Belgrade*, 2014, 66: 829-839. ([M23; IF=0,718; 68/85 Biology](#))
58. Korićanac, G., Djordjević, A., Žakula, Z., Vojnović Milutinović, D., Tepavčević, S., Veličković, N., Milosavljević, T., Stojiljković, M., Romić, S. & **Matić, G.**: Gender modulates development of metabolic syndrome phenotype in fructose fed rats. *Arch. Biol. Sci. Belgrade*, 2013, 65: 455-464. ([M23; IF=0,607; 71/85 Biology](#))
59. Nestorov, J., **Matić, G.**, Elaković, I. & Tanić, N.: Gene expression studies: How to obtain accurate and reliable data by quantitative real-time RT PCR. *J. Med. Biochem.*, 2013, 32: 325-338. ([M23; IF=0,721; 274/291 Biochemistry & Molecular Biology](#))
60. Elaković, I., Nestorov, J., Kovačević, S. & **Matić, G.**: Selection of reference genes for normalization of real-time PCR data in visceral adipose tissue of female rats on a fructose-enriched diet. *Arch. Biol. Sci. Belgrade*, 2012, 64: 1247-1259. ([M23; IF=0,791; 60/82 Biology](#))
61. Vojnović Milutinović, D., Macut, D., Božić, I., Brkljačić, J., Damjanović, S. and **Matić, G.**: Hypothalamic-pituitary-adrenocortical axis hypersensitivity and glucocorticoid receptor expression and function in women with polycystic ovary syndrome. *Exp. Clin. Endocrinol. Diabetes*, 2011, 119: 636-643. ([M23; IF=1,693; 90/122 Endocrinology & Metabolism](#))
62. Macut, Dj., Vojnović Milutinović, D., Božić, I., **Matić, G.**, Brkljačić, J., Panidis, D., Petakov, M., Spanos, N., Bjekić, J., Stanojlović, O., Petrović Milinković, A., Radojčić, Z & Damjanović, S.: Age, body mass index and serum level of DHEA-S can predict glucocorticoid receptor function in women with polycystic ovary syndrome. *Endocrine*, 2010, 37: 129-134. ([M23; IF=1,373; 98/116 Endocrinology & Metabolism](#))
63. Perišić, T., Srećković, M. & **Matić, G.**: Modulation of glucocorticoid receptor function and expression in childhood moderate asthma. *Respiration*, 2009, 77: 70-75. ([M23; IF=1,935; 26/43 Respiratory System](#))
64. Elaković, I., Perišić, T., Čanković-Kadijević, M. & **Matić, G.**: Correlation between glucocorticoid receptor binding parameters, blood pressure and body mass index in a healthy human population. *Cell Biochem. Funct.*, 2007, 25: 427-431. ([M23; IF=1,561; 199/263 Biochemistry & Molecular Biology](#))
65. Čvoro, A., Korać, A. & **Matić, G.**: Intracellular localization of constitutive and inducible heat shock protein 70 in rat liver after *in vivo* heat stress. *Molec. Cell. Biochem.*, 2004, 265: 27-35. ([M23; IF=1,714; 109/155 Cell Biology](#))
66. Brkljačić, J., Vojnović-Milutinović, D., Dunderski, J. & **Matić, G.**: Mercury inhibits rat liver and kidney glucocorticoid receptor hormone binding activity. *Cell Biol. Toxicol.*, 2004, 20: 171-182. ([M23; IF=1,338; 50/75 Toxicology](#))

67. Brkljačić, J., Vojnović-Milutinović, D., Dundžerski, J. & **Matić, G.**: Mercury stimulates rat liver glucocorticoid receptor association with Hsp90 and Hsp70. *J. Biochem. Molec. Toxicol.*, 2004, 18: 257-260. ([M23](#); IF=1,376; 190/261 [Biochemistry & Molecular Biology](#))
68. Čvoro, A., Korać, A. & **Matić, G.**: Immunocytochemical study of the glucocorticoid receptor in the rat liver nuclei after hyperthermic stress. *Cell Biol. Int.*, 2003, 27: 403-407. ([M23](#); IF=1,092; 126/154 [Cell Biology](#))
69. Živadinović, D., Vidović, S., **Matić, G.** & Andjus, R.K.: Hyperthermic stress affects the thermal modulation of glucocorticoid-receptor affinity. *J. Thermal. Biol.*, 2001, 26: 575-584. ([M23](#); IF=0,765; 30/41 [Biology, Miscellaneous](#))
70. Čvoro, A., Dundžerski, J., Trajković, D. & **Matić, G.**: The level and phosphorylation of Hsp70 in the rat liver cytosol after adrenalectomy and hyperthermia. *Cell Biol. Int.*, 1999, 23: 313-320. ([M23](#); IF=0,731; 119/141 [Cell Biology](#))
71. Čvoro, A., Dundžerski, J., Trajković, D. & **Matić, G.**: Heat stress affects the glucocorticoid receptor interaction with heat shock protein Hsp70 in the rat liver. *Biochem. Molec. Biol. Int.*, 1998, 46: 63-70. ([M23](#); IF=0,792; 229/295 [Biochemistry & Molecular Biology](#))
72. Vidović, S., Čvoro, A., Dundžerski, J., Trajković, D. & **Matić, G.**: Hyperthermic stress affects glucocorticoid-receptor-mediated transcription in rat liver. *Cell Biol. Int.*, 1996, 20: 553-559. ([M23](#); IF=1,124; 92/130 [Cell Biology](#))
73. **Matić, G.**, Kipić, J., Ristić, B., Dundžerski, J. & Trajković, D.: Hyperthermic stress modulates the functions of rat liver glucocorticoid receptor. *Cell Biol. Int.*, 1995, 19: 203-213. ([M23](#); IF=1,124; 92/130 [Cell Biology](#))
74. Dundžerski, J., Stanošević, J., Ristić, B., Trajković, D. & **Matić, G.**: *In vivo* effects of cadmium on rat liver glucocorticoid receptor functional properties. *Int. J. Biochem.*, 1992, 24: 1065-1072. ([M23](#); IF=1,155; 107/157 [Biochemistry & Molecular Biology](#))
75. Šoškić, V., Trajković, D., Petrović, J., **Matić, G.**, Damjanović, S. & Šuša, M.: The response of rat central dopaminergic system to nesdonal and hyperthermic shock. *Period. Biol.*, 1986, 88: 208-209. ([M23](#); IF=0,297; 36/41 [Biology](#))
76. **Matić, G.** & Trajković, D.: The effect of alkaline phosphatase on the activation of glucocorticoid-receptor complexes in rat liver cytosol. *Int. J. Biochem.*, 1986, 18: 841-845. ([M23](#); IF=0,779; 107/134 [Biochemistry & Molecular Biology](#))
77. **Matić, G.** & Trajković, D.: ATP-dependent alterations in rat hepatic glucocorticoid receptor binding properties and transformation. *Period. Biol.*, 1985, 87: 33-42. ([M23](#); IF=0,158; 44/44 [Biology](#))
78. Petrović, J., Trajković, D., Radojčić, M., **Matić, G.**, Milovanov, N. & Todorović, O.: Alpha<sub>1</sub>-antitrypsin genetic phenotypes in a group of children suffering from pulmonary diseases. *Respiration*, 1982, 43: 127-132. ([M23](#); IF=0,505; 17/18 [Respiratory System](#))

#### **Radovi u časopisima bez IF**

79. Mazin, W., Tamm, J.A., Antonijevic, I., Abdourahman, A., Das, M., Artymyshyn, R., Søgaaard, B., Walker M., Savic, D., **Matic, G.**, Damjanovic, S., Gether, U., Werge, T.,



- Kessing, L., Ullum, H., Haastrup, E., Vermetten, E., Markovitz, P., Mosekilde, E., Gerald, C.: A classifier driven approach to find biomarkers for affective disorders from transcription profiles in blood. *Advances in Precision Medicine*, 2016, 1: 48-65.
80. Perišić, T., Srećković, M. & **Matić, G.**: Possible role of a hydrogen peroxide-mediated mechanism in glucocorticoid receptor functional alterations associated with moderate asthma. *Arch. Biol. Sci. Belgrade*, 2008, 60: 531-539.
  81. Tucić, B., Manitašević, S., Vuleta, A. & **Matić, G.**: Linking Hsp90 to micro-environmental and stochastic variation in floral organs of *Iris pumila*. *Arch. Biol. Sci. Belgrade*, 2008, 60: 411-419.
  82. Perišić, T., Srećković, M. & **Matić, G.**: Changes of antioxidant enzyme activity and heat shock protein content in lymphocytes of children with asthma. *Arch. Biol. Sci. Belgrade*, 2007, 59: 257-266.
  83. Čvoro, A., Korać, A. & **Matić, G.**: Alteration of glucocorticoid receptor subcellular distribution by hyperthermic stress. *Arch. Biol. Sci.*, 2006, 58: 145-152.
  84. Đukić, N., **Matić, G.** & Konjević, R.: Biochemical analysis of gliadins of wheat *Triticum durum*. *Kragujevac J. Sci.*, 2005, 27: 131-138.
  85. Dundjerski, J., Vidović, S. & **Matić, G.**: The influence of dexamethasone on Hsp70 level and association with glucocorticoid receptor in the liver of unstressed and heat-stressed rats. *Yugoslav. Med. Biochem.*, 2003, 22: 19-26.
  86. Dundjerski, J., Predić, J., Čvoro, A. & **Matić, G.**: Rat liver tyrosine aminotransferase activity and induction by dexamethasone upon cadmium intoxication. *Arch. Biol. Sci.*, 2003, 55: 3-7.
  87. Čvoro, A. & **Matić, G.**: Glucocorticoid receptor interaction with Hsp90 remains unaltered after whole body hyperthermia. *Stress*, 2000, 3: 257-260.
  88. Elez, D., Vidović, S. & **Matić, G.**: The influence of hyperthermic stress on the redox state of glucocorticoid receptor. *Stress*, 2000, 3: 247-255.
  89. Dundjerski, J., Predić, J., Kovač, T., Pavković, N., Ivanišević, Lj., Čvoro, A. & **Matić, G.**: A possible role of metallothionein and heat shock proteins in the glucocorticoid receptor protection against cadmium intoxication. *Arch. Biol. Sci. Belgrade*, 2000, 52: 89-95.
  90. Trajković, D., Čvoro, A., Damjanović, S., Dundjerski, J. & **Matić, G.**: Nesdonal induces Hsp70 and affects glucocorticoid receptor in the rat liver. *Arch. Biol. Sci.*, 1997, 49: 81-88.
  91. Dundjerski, J. & **Matić, G.**: Metallothioneins: Small proteins serving numerous important functions. *Yugoslav. Med. Biochem.*, 1997, 16: 1-14.
  92. Dundjerski, J., Butorović, B., Kipić, J., Trajković, D. & **Matić, G.**: Cadmium and dexamethasone affect glucocorticoid receptor level and degradation in the rat liver. *Arch. Biol. Sci.*, 1996, 48: 79-86.
  93. Butorović, B., **Matić, G.**, Kipić, J., Dundjerski, J. & Trajković, D.: Synthesis and phosphorylation of hepatic proteins in rats exposed to hyperthermic shock. *Arch. Biol. Sci.*, 1994, 46: 65-72.

94. Dundjerski, J., Ristić, B., Stanošević, J., Trajković, D. & **Matić, G.**: Cadmium-induced glucocorticoid receptor modification and metallothionein synthesis in rat liver. Arch. Biol. Sci., 1991, 43: 15P-16P.
95. Šuša, M., **Matić, G.**, Petrović, J. & Trajković, D.: Stress-induced alterations in hepatic polysomal fraction and S<sub>6</sub> kinase activity of the rat. Jugoslav. Physiol. Pharmacol. Acta, 1990, 26: 419-427.
96. **Matić, G.**, Trajković, D., Šuša, M., Damjanović, S. & Petrović, J.: Characterization of rat liver glucocorticoid receptor in insulin-induced hypoglycemic stress. Jugoslav. Physiol. Pharmacol. Acta, 1988, 24: 563-564.
97. **Matić, G.**, Trajković, D. & Šoškić, V.: Early decrease in phosphorylation and kinase activity of rat liver soluble proteins induced by cortisol. Jugoslav. Physiol. Pharmacol. Acta, 1986, 22: 1-11.
98. Trajković, D., **Matić, G.**, Radojčić, M. & Petrović, J.: Effects of trichlorphon and parathion on steroid hormones binding to cytosol receptors of different target tissues of rats. Acta Biol. Med. Exptl., 1981, 6: 71-75.
99. Petrović, J., Trajković, D., Janić-Šibalić, V., **Matić, G.**, Radojčić, M., Milić, B., Spasić, M. & Saičić, Z.: The effect of trichlorphon on some biochemical parameters in blood of laboratory rats. Acta Biol. Med. Exptl., 1981, 6: 55-59.
100. Petrović, J., Šoškić, V., Trajković, D., **Matić, G.** & Kidrič, M.: Purification of human blood platelet dopamine receptors by affinity chromatography. Jugoslav. Physiol. Pharmacol. Acta, 1981, 17: 51-59.
101. Trajković, D., Bogić, Lj. & **Blečić, G.**: The role of steroid hormones in the synthesis of serum proteins. Arch. Biol. Sci., 1980, 32: 17-23.

## Poglavlja u knjigama

1. **Matić, G.**, Vojnović Milutinović, D., Elaković, I., Nestorov, J., Savić, D.: Level of Expression and Functional Properties of Lymphocyte Corticosteroid Receptors as Biological Correlates of PTSD, Trauma-Exposure or Resilience to PTSD. In: Comprehensive Guide to Post-Traumatic Stress Disorder, Eds: C.R. Martin, V.R. Preedy, V.B. Patel; Springer International Publishing Switzerland, 2016, pp. 961-978. DOI 10.1007/978-3-319-08359-9\_3; ISBN 978-3-319-08358-2 (Print); ISBN 978-3-319-08359-9 (Online)
2. Elaković, I., Djordjevic, A. & **Matić, G.**: Sexual dimorphism in corticosteroid signaling – underneath vulnerability to stress-related disorders and sensitivity to antidepressants. In: *Advances in Medicine and Biology*, vol. 46 (L.V. Berhardt, Ed.), Nova Publishers, Hauppauge, NY, USA, 2012, pp. 1-34.
3. **Matić, G.**: The role of heat shock proteins in modulation of glucocorticoid receptor functions by stress. In: *Molecular Mechanisms of Action of Steroid Hormone Receptors* (M. Krstić-Demonacos & C. Demonacos, Eds.), Research Signpost, Trivandrum, Kerala, India, 2002, pp. 39-54.
4. **Matić, G.**, Dundjerski, J. & Čvoro, A.: Mutually dependent functions of glucocorticoid receptor and heat shock proteins. In: *Current Topics in Steroid Research* (K. Fotherby, H. Gronemeyer et al., Eds.) Research Trends, Trivandrum, India, 1998, pp. 1-17.

## Revijski članci

1. Dundžerski, J. & **Matić, G.**: Glucocorticoid receptor in health and disease. J. Med. Biochem. 28, 2009, 248-261.
2. **Matić, G.**: Clinical application of heat shock proteins. Yugoslav Med. Biochem., 18, 1999, 133-139.
3. **Matić, G.**: A cross-talk between glucocorticoid receptor-mediated signal transduction pathway and heat shock response. A review. Yugoslav Med. Biochem., 14, 1995, 89-102.

## Predavanja po pozivu

1. Djordjevic, A., Veličković, N., Bursać, B., Teofilović, A., **Matić, G.**: The role of glucocorticoid hormones in diet-induced metabolic diseases. First Congress of Molecular Biologists of Serbia, 20-22. September 2017, Belgrade, Serbia. Biologia Serbica, 2017, 39(1):16-25. DOI 10.5281/zenodo.826607.
2. Adzic, M., Djordjevic, A., Djordjevic, J., Elaković, I., Simic, I., Mitic, M., Rackov, G., **Matić, G.** & Radojčić, M.: Fluoxetine decreases glutathione reductase in erythrocytes of chronically isolated Wistar rats. 10<sup>th</sup> International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia, 2010, Proceedings vol. I, F-P-1, pp. 316-318.
3. **Matić, G.**: Glucocorticoid receptor in health and disease. 5<sup>th</sup> EFCC (European Federation of Clinical Chemistry and Laboratory Medicine) Symposium for Balkan Region, Belgrade, October 8-10, 2009.
4. **Matić, G.**: Glucocorticoid receptor in health and disease. V Congress of Internal Medicine for South-Eastern Europe, Belgrade, March 6-9, 2009.
5. **Matić, G.**: Funkcionalni status glukokortikoidnog receptora i osetljivost HHA ose u posttraumatskom stresnom poremećaju. IV Kongres Društva za neuronauke Srbije, Kragujevac, 2008, Zbornik sažetaka, str. 324-325.
6. **Matić, G.**: Ekspresija i funkcionalne osobine glukokortikoidnog receptora u limfocitima ratnih veterana sa posttraumatskim stresnim poremećajem. XIII Kongres Udruženja psihijatara Srbije, Beograd, 2008. XIII Kongres Udruženja psihijatara Srbije, Beograd, 2008.
7. Dundžerski, J., Brkljačić, J. & **Matić, G.**: Aktivnost tirozin aminotransferaze u jetri pacova i indukcija enzima deksametazonom u uslovima intoksikacije teškim metalima. I Simpozijum biologa Republike Srpske, Banja Luka, 2005, Zbornik sažetaka, str. 38.
8. **Matić, G.**: Funkcionalni značaj interakcije glukokortikoidnog receptora sa proteinima toplotnog stresa. I Simpozijum biologa Republike Srpske, Banja Luka, 2005, Zbornik sažetaka, str. 7.
9. **Matić, G.**: Regulation of glucocorticoid receptor function during cellular stress response. Stremljenja i novine u medicini, Beograd, 2004. Medical Investigations 38, 2004, 53.

10. Butorović, B. & **Matić, G.**: Receptori za steroidne hormone - značaj za dijagnostiku, prognostiku i terapiju. XI Kongres medicinskih biohemičara Jugoslavije sa međunarodnim učešćem, Čigota-Zlatibor, 1998, u knizi: Primena medicinske biohemije u laboratorijskoj medicini (N. Majkić-Singh, ur), Društvo medicinskih biohemičara Jugoslavije, Beograd, 2000, pp. 51-64.
11. **Matić, G.**: Heat stress interferes with glucocorticoid receptor-mediated signal transduction pathway. Meeting of the Balkan Clinical Laboratory Federation, Budva, Yugoslavia, 1996. In: Advances in laboratory Medicine (N. Majkić-Singh, ed), Society of Medical Biochemists of Yugoslavia, Belgrade, 1996, p. 119-132.
12. **Matić, G.**, Dundjerski, J., Ristić, B., Stanošević, J. & Trajković, D.: Promene glukokortikoidnog receptora izazvane toplotnim stresom. Sastanak Društva medicinskih biohemičara Jugoslavije, Beograd, 1995, abstr. Yugoslav Med. Biochem. **14** (1-2), 1995, 63-64.
13. **Matić, G.**, Stanošević, J., Ristić, B. & Trajković, D.: Stress-induced modifications of rat liver glucocorticoid receptor structural and functional properties. XVth International Congress of Biochemistry, Fellows Course, Jerusalem, Israel, 1991, abstr. p. 26.
14. Trajković, D., Ribarac-Stepić, N., **Blečić, G.**, & Kanazir, D.: Binding of cortisol and estradiol to isolated uterine and liver nuclei and activation of RNA polymerases. Proc. Int. Symp. Neuroendocrine Regulat. Mech., Serb. Acad. Sci. Arts., Belgrade, 1979, pp. 165-172.

#### Saopštenjana naučnim skupovima

1. Gligorovska, Lj., Djordjevic, A., Bursać, B., Teofilović, A., Veličković, N., Vojnović Milutinović, D., Kovačević, S., **Matić, G.**: Glucocorticoid-mediated effects of MIF deficiency and fructose-enriched diet on lipid metabolism in the mouse intra-abdominal adipose tissue. The First Congress of Molecular Biologists of Serbia, Belgrade, Serbia, 20-22. September 2017, Book of abstracts, p. 38.
2. Jelača, S., Nestorov, J., Veličković, N., Teofilović, A., Djordjevic, A., Nikolić, M., Macut, Đ., Božić, I., **Matić, G.**, Vojnović Milutinović, D.: Glucocorticoid prereceptor metabolism in the liver of 5 $\alpha$ -dihydrotestosterone-treated rats as animal model of polycystic ovary syndrome. The First Congress of Molecular Biologists of Serbia, Belgrade, Serbia, 20-22. September 2017, Book of abstracts, p. 42.
3. Ilić, D., Teofilović, A., Bursać, B., Veličković, N., Djordjevic, A., Vojnović Milutinović, D., Nestorov, J., Preitner, F., Tappy, L., **Matić, G.**: The role of ampk in dietary fructose- and stress-induced metabolic inflammation. The First Congress of Molecular Biologists of Serbia, Belgrade, Serbia, 20-22. September 2017, Book of abstracts, p. 40.
4. Šešlija Jovanović, D., Ostojić, I., **Matić, G.**, Đorđević, M., Savković, U., Lazarević, J., Stojković, B.: Hsp 70 expression level in short- and long-lived populations of the seed beetle (*Acanthoscelides obtectus* SAY). The First Congress of Molecular Biologists of Serbia, Belgrade, Serbia, 20-22. September 2017, Book of abstracts, p. 72.
5. Djordjević, A., Veličković, N., Bursać, B., Shirif, A.Z., Vojnović Milutinović, D., Nestorov, J., Nikolić, M., Kovačević, S., Gligorovska, Lj., Tappy, L., **Matić, G.**:

Combined effects of stress and high fructose diet on lipid metabolism perturbations in the visceral adipose tissue of male Wistar rats. 13<sup>th</sup> Congress on Nutrition – Food and Nutrition: A Road to Better Health. Belgrade, 26-28. October 2016, p. 295.

6. Bursać, B., Vasiljević, A., Veličković, N., Vojnović-Milutinović, D., Gligorovska, Lj., Djordjevic, A., Elaković, I., Kovačević, S., **Matić, G.**, Nestorov, J., Nikolić, M., Tappy, L., Preitner, F.: Effects of high-fructose diet and stress on hepatic metabolism in the wistar rat: which is to blame? 13<sup>th</sup> Congress on Nutrition – Food and Nutrition: A Road to Better Health. Belgrade, 26-28. October 2016, p. 261-2.
7. Veličković, N., Vojnović-Milutinović, D., Djordjevic, A., Elaković, I., **Matić, G.**, Nestorov, J.: Fructose in court of justice: good or bad sugar? Sixth Conference of the Serbian Biochemical Society “Biochemistry and Interdisciplinarity: Transcending the Limits of Field”, Belgrade, Serbia, 18.11.2016, p. 83-97.
8. Bjekić-Macut, J., Božić, I., Bursać, B., Vasiljević, A., Veličković, N., Vojnović-Milutinović, D., Djordjevic, A., **Matić, G.**, Macut, Đ., Nestorov, J., Nikolić, M.: Dihydrotestosterone treatment led to development of visceral obesity and inflammation in the visceral adipose tissue of the rat model of polycystic ovary syndrome. 2nd International Symposium on Advances in PCOS and Women's Health, Belgrade, Serbia, 14-16. April 2016, p. 1347.
9. Vojnović Milutinović, D., Nikolić, M., Djordjevic, A., Veličković, N., Bursać, B., Teofilović, A., Božić Antić, I., Bjekić Macut, J., **Matić, G.**, Macut, D.: Enhanced inflammation and unchanged insulin sensitivity in the visceral adipose tissue of the rat model of polycystic ovary syndrome [abstract]. In: Sharpe R, editor. ESE Basic Endocrinology Course in Reproductive Endocrinology Course Booklet, 2015 Feb 18-20; Edinburgh, United Kingdom. Bristol (UK): European Society of Endocrinology; 2015. pp 31.
10. Djordjevic, A., Vojnović Milutinović, D., Veličković, N., Nestorov, J., Bursać, B., Teofilović, A., **Matić, G.**: The effects of different dietary fructose loads on hypothalamic inflammation, leptin and insulin sensitivity and visceral adiposity in male rats [abstract]. 6th Swiss Winter Conference on Ingestive Behavior, St. Moritz, Switzerland, 28 February - 5 March 2015.
11. Vojnović Milutinović, D., Veličković, N., Djordjevic, A., Elaković, I., Nestorov, J., Bursać, B., Teofilović, A., Kovačević, S., Nikolić, M., **Matić, G.**: Interactions between stress and dietary fructose in the development of the metabolic-like phenotype in Wistar rat [abstract]. 6th Swiss Winter Conference on Ingestive Behavior, St. Moritz, Switzerland, 28 February - 5 March 2015.
12. Veličković, N., Teofilović, A., Djordjevic, A., Vojnović Milutinović, D., Bursać, B., **Matić, G.**: High dietary fructose load affects oxidation and lipogenesis without increasing lipid deposition in the liver of Wistar rat [abstract]. Abstract of the Hot topic conference: Dietary Sugars, Obesity, Metabolic Disease Risk; 2015 June 29-30; Berlin, Germany. Abstract book; 2015, p. 33.
13. Djordjevic, A., Bursać, B., Vojnović Milutinović, D., Nestorov, J., Nikolić, M., Nestorović, N., Vasiljević, A., Veličković, N., Elaković, I. & **Matić, G.**: The role of hypothalamic leptin signalling and glucocorticoids in fructose diet-induced visceral adiposity of rats. ESE Basic Endocrinology Course on “Neuroendocrinology” Amsterdam, Netherlands, 15-17 January 2014, pp 12.



14. Bursać, B., Djordjevic, A., Vasiljević, A., Vojnović Milutinović, D., Veličković, N., **Matić, G.**: Contribution of hypothalamic glucocorticoid signaling in fructose-diet induced visceral adiposity and leptin resistance of rats [abstract]. Training School in Neuroendocrinology; 2013 July27-Aug2; Prato; Italy. Training School Abstr. 2013, 03. 2.
15. Macut, D., Vojnović Milutinović, D., Božić, I., Nestorov, J., Topalović, V., Bjekić Macut, J., Kastratovic, B., **Matić, G.**: The influence of combined oral contraceptives containing ethinylestradiol plus drospirenone on the hypothalamic-pituitary-adrenal axis and glucocorticoid receptor expression in women with polycystic ovary syndrome [abstract]. In: Macut D, Pfeifer M, et al., editors. International Symposium on Advances in PCOS, 2012 Nov 16-17; Belgrade, Serbia. Bristol (UK): European Society of Endocrinology; 2012. FC6.
16. Vojnović Milutinović, D., Djordjevic, A., Nikolić, M., Korićanac, G., Tepavčević, S., Žakula, Z., Nestorović, N., Božić, I., Bjekić Macut, J., **Matić, G.**, Macut, D.: Characteristics of metabolic syndrome in hyperandrogenemic female rat model of polycystic ovary syndrome [abstract]. In: Macut D, Pfeifer M, et al., editors. International Symposium on Advances in PCOS, 2012 Nov 16-17; Belgrade, Serbia. Bristol (UK): European Society of Endocrinology; 2012. P2.
17. Bjekić-Macut, J., Božić, I., Vojnović-Milutinović, D., Damjanović, S., **Matić, G.**, Macut, Dj., Petakov, M., Stanojlović, O., Popović, B., Bogavac, T., Ognjanović, S., Isailović, T., Elezović, V., Čivčić, M., Erceg, S.: Significance of obesity in the genesis of metabolic syndrome in women with polycystic ovary syndrome. 15th International and 14th European Congress of Endocrinology, European Society of Endocrinology, Italy, 05-09. May 2012, p. 971.
18. Bjekić-Macut, J., Božić, I., Vojnović-Milutinović, D., Damjanović, S., **Matić, G.**, Macut, Dj., Petakov, M., Stanojlović, O., Popović, B., Bogavac, T., Ognjanović, S., Isailović, T., Elezović, V., Čivčić, M., Erceg, S., Spanos, N., Panidis, D.: Lipid accumulation product as a marker of metabolic syndrome in women with polycystic ovary syndrome. 15th International and 14th European Congress of Endocrinology, European Society of Endocrinology, Italy, 05-09. May 2012, p. 972.
19. Djordjevic, A., Djordjevic, J., Elaković, I., Adžić, M., Radojčić, M., **Matić, G.**: Fluoxetine affects brain plasticity and apoptosis and normalizes behavior of chronically isolated rats [abstract]. 8th FENS Forum of European Neuroscience, Barcelona, Spain. FENS Forum Abstr. 2012, 067.05.
20. **Matić, G.**, Veličković, N., Djordjevic, A., Vojnović Milutinović, D., Elaković, I., Nestorov, J., Bursać, B., Vasiljević, A., Nikolić, M. & Dundjerski, J.: Glucocorticoid signaling in the liver and adipose tissue of male and female fructose-fed rats. Metabolism, Diet and Disease conference, Washington DC, USA, BMC Proceedings, 6 (3), 2012, abstract P35, p. S22.
21. Savić, D., Vermetten, E., Knežević, G., **Matić, G.**, Špirić, Ž. & Damjanović, S.: HPA-axis behavior is correlated with personality. 9<sup>th</sup> World Congress of Biological Psychiatry, Paris, France, 2009, Book of Abstracts, p. 248.

22. **Matić, G.**, Brkljačić, J., Elaković, I., Manitašević Jovanović, S., Vojnović Milutinović, D., Perišić, T., Dundžerski, J., Savić, D., Knežević, G., Špirić, Ž. & Vermetten, E.: Lymphocyte glucocorticoid receptor expression and functional properties in Balkan war veterans with and without PTSD. 9<sup>th</sup> World Congress of Biological Psychiatry, Paris, France, 2009, Book of Abstracts, p. 244.
23. Brkljačić, J., Tanić N., Vojnović Milutinović, D., Elaković, I., Manitašević Jovanović, S., Perišić, T., Dundžerski, J. & **Matić, G.**: Glucocorticoid receptor mRNA level in war veterans with and without PTSD. 9<sup>th</sup> World Congress of Biological Psychiatry, Paris, France, 2009, Book of Abstracts, p. 245.
24. Elaković, I., Brkljačić, J. & **Matić, G.**: Gender differences in the effects of tricyclic antidepressant imipramine on corticosteroid system in the pituitary and brain. IV Congress of Serbian Neuroscience Society, Kragujevac, 2008, Abstracts, p. 360.
25. Manitašević, S., Vuleta, A., **Matić, G.**, Dundžerski, J. & Tucić, B.: Resource sharing among interconnected ramets enhances stress tolerance in *Iris pumila*. 3<sup>rd</sup> Cell Stress Society International Congress on Stress Responses in Biology and Medicine & 2<sup>nd</sup> World Conference of Stress, Budapest, Hungary, 2007, Book of Abstracts, p. 215.
26. Dundžerski, J., Brkljačić, J., Perišić, T. & **Matić, G.**: Influence of mercury on rat renal glucocorticoid receptor association with Hsp90 and Hsp70. 3<sup>rd</sup> Cell Stress Society International Congress on Stress Responses in Biology and Medicine & 2<sup>nd</sup> World Conference of Stress, Budapest, Hungary, 2007, Book of Abstracts, p. 253.
27. **Matić, G.**, Elaković, I. & Brkljačić, J.: Gender-related differences in response of rat brain corticosteroid receptors and heat shock proteins to antidepressant imipramine. 3<sup>rd</sup> Cell Stress Society International Congress on Stress Responses in Biology and Medicine & 2<sup>nd</sup> World Conference of Stress, Budapest, Hungary, 2007, Book of Abstracts, p. 384.
28. Macut, Dj., Vojnović Milutinović, D., Božić, I., Damjanović, S. & **Matić, G.**: Glucocorticoid receptor binding parameters in women with polycystic ovary syndrome. 5<sup>th</sup> Annual Meeting of Androgen Excess Society & 89<sup>th</sup> Annual Meeting of Endocrine Society, Toronto, Canada, 2007, Book of Abstracts, p.
29. Brkljačić, J., Vojnović Milutinović, D., Dundžerski, J. & **Matić, G.**: Association of rat liver glucocorticoid receptor with Hsp90 and Hsp70 upon mercury intoxication. 30<sup>th</sup> FEBS Congress and 9<sup>th</sup> IUBMB Conference – The Protein World, Budapest, Hungary, July 2005. *FEBS J.* 2005, 272 (Suppl. 1), p. 481.
30. Brkljačić, J., Vojnović-Milutinović, D., Dundžerski, J. & **Matić, G.**: Mercury reduces rat liver and kidney glucocorticoid receptor hormone binding activity. FEBS Special Meeting on Signal Transduction, Brussels, Belgium, 2003, *Eur. J. Biochem.* 270 (Suppl. 1), 2003, p.115.
31. Dundžerski, J., Predić, J., Čvoro, A. & **Matić, G.**: A possible mechanism protecting glucocorticoid receptor against cadmium intoxication. IV Yugoslav Symposium “Chemistry and Environment”, Zrenjanin, 2001, p. 265-267.
32. Elez, D., Dundžerski, J., Trajković, D. & **Matić, G.**: Cadmium binds to sulfhydryl groups of glucocorticoid receptor. IV Yugoslav Symposium “Chemistry and Environment”, Zrenjanin, 2001, p. 262-264.

33. Čvoro, A., Vidović, S., Dundjerski, J. & **Matić, G.**: Hsp70 level in the rat liver cytosol and nuclei after 41°C and 42°C whole body hyperthermia. International Symposium – Molecular Cell Biology of the Heat Stress Response, Frankfurt/Main, Germany, 1998, abstract P6.
34. **Matić, G.**, Čvoro, A., Dundjerski, J. & Trajković, D.: Hsp70 level and polymorphism in the rat liver after heat stress. 17th International Congress of Biochemistry and Molecular Biology, San Francisco, California, USA, abstr. FASEB J. 11, 1997, A902.
35. Čvoro, A., Dundjerski, J., Trajković, D. & **Matić, G.**: The glucocorticoid receptor heterocomplexes composition upon stress and adrenalectomy. 17th International Congress of Biochemistry and Molecular Biology, San Francisco, California, USA, abstr. FASEB J. 11, 1997, A915.
36. **Matić, G.**, Čvoro, A., Dundjerski, J. & Trajković, D.: Heat shock-dependent alterations in the assembly of the glucocorticoid receptor complexes. Stress of Life: Stress and Adaptation from Molecules to Man, Budapest, Hungary, 1997, p. 33.
37. Čvoro, A., Dundjerski, J., Trajković, D. & **Matić, G.**: Heat shock and glucocorticoid hormones influence rat liver Hsp70 concentration and phosphorylation. Stress of Life: Stress and Adaptation from Molecules to Man, Budapest, Hungary, 1997, p. 34.
38. **Matić, G.**: Heat stress interferes with glucocorticoid receptor-mediated signal transduction pathway. 4th Meeting of the Balkan Clinical Laboratory Federation, Budva, Yugoslavia, 1996, abstr. Balkan J. Clin. Lab., 3, 1996, p. 29.
39. Korać, B., **Matić, G.**, Čvoro, A., Buzadžić, B., Saičić, Z. & Dundjerski, J.: Metallothionein response to heat shock in rat skin: effect of antioxidants pretreatment. World Congress of Pharmacy '96, Jerusalem, Israel, 1996, p. 155.
40. **Matić, G.**, Vidović, S., Čvoro, A., Dundjerski, J. & Trajković, D.: Tyrosine aminotransferase activity in liver of rats exposed to hyperthermic stress. 2nd International Conference of the Hungarian Biochemical Society, Szeged, Hungary, 1995, p. 63.
41. Čvoro, A., Dundjerski, J., Kipić, J., Trajković, D. & **Matić, G.**: The induction of HSP70 in the rat liver by whole body hyperthermia. 2nd International Conference of the Hungarian Biochemical Society, Szeged, Hungary, 1995, p.96.
42. Hutchison, K. A., **Matić, G.**, Meshinchi, S., Bresnick, E. & Pratt, W. B.: Studies on non-DNA-binding forms of the mouse glucocorticoid receptor. Xth International Symposium of The Journal of Steroid Biochemistry and Molecular Biology, Paris, France, 1991, p.46.
43. **Matić, G.**, Stanošević, J., Ristić, B. & Trajković, D.: Stress-induced modifications of rat liver glucocorticoid receptor structural and functional properties. XVth International Congress of Biochemistry, Jerusalem, Israel, 1991, p. 66.
44. Budec, M., Trajković, D., **Matić, G.** & Ćirić, O.: <sup>3</sup>H/Estradiol binding in hypothalamus of the rat chronically treated with ethanol. International Symposium: Brain Damage and Plasticity, Kotor, 1988.

45. **Matić, G.**, Trajković, D., Šuša, M., Damjanović, S. & Petrović, J.: *In vitro* studies on rat liver glucocorticoid receptor binding properties and transformation in hyperthermia. 14th International Congress of Biochemistry, Prague, 1988, p.110.
46. **Matić, G.**, Trajković, D., Šuša, M., Damjanović, S. & Petrović, J.: Characterization of rat liver glucocorticoid receptor in insulin-induced hypoglycemic stress. XIV Kongres Saveza fizioloških društava Jugoslavije, Satellite Symposium "Stress and Trauma", Beograd, 1988, p. 217.
47. Budec, M., **Matić, G.**, Trajković, D. & Ćirić, O.: Specific binding of estradiol in the rat uterus and adenohipophysis after chronic treatment with ethanol. IV Congress of Yugoslav endocrinologists, Herceg Novi, 1988, Abstracts, p. 210.
48. Damjanović, S., Trajković, D., **Matić, G.** & Petrović, J.: The influence of hypoglycemia on rat liver cytosol glucocorticoid receptor. IV Congress of Yugoslav endocrinologists, Herceg Novi, 1988, Abstracts, p. 14.
49. Damjanović, S., Trajković, D., **Matić, G.**, Šuša, M. & Petrović, J.: The effects of hyperthermia on glucocorticoid receptor properties. 18th FEBS Meeting, Ljubljana, 1987, p.137.
50. Damjanović, S., Trajković, D., Šuša, M., **Matić, G.** & Petrović, J.: Hyperthermia-induced proteins in rat liver cytosol. 18th FEBS Meeting, Ljubljana, 1987, p.194.
51. **Matić, G.** & Trajković, D.: Studies on the structure and function of rat liver glucocorticoid receptor on the purified preparation. VII Congress of Yugoslav biologists, Budva, 1986, Abstracts, p. 305.
52. Petrović, J., Šoškić, V., Trajković, D., **Matić, G.**, Damjanović, S. & Šuša, M.: Alterations of the rat central dopaminergic system induced by hypoglycemic shock. VII Congress of Yugoslav biologists, Budva, 1986, Abstracts, p. 313.
53. **Matić, G.**, Trajković, D., Damjanović, S., Šuša, M., Petrović, J. & Šoškić, V.: Binding affinity and capacity of the rat liver glucocorticoid receptor upon hypoglycemic and hyperthermic stress. IV Congress of the Federation of Biochemical Societies of Yugoslavia, Sarajevo, 1986, Abstracts, p. 21.
54. Šuša, M., Trajković, D., Petrović, J. & **Matić, G.**: Changes in the rat liver ribosome organization induced by stress. Promene u organizaciji ribozoma jetre pacova izazvane stresom. IV Congress of the Federation of Biochemical Societies of Yugoslavia, Sarajevo, 1986, Abstracts, p. 20.
55. Šoškić, V., Trajković, D., Petrović, J., **Matić, G.**, Damjanović, S. & Šuša, M.: The response of central dopaminergic system to Nesdonal and heat-shock. XVI Jugoslovenski Simpozijum biofizike, Kranjska gora, 1985, p. 58.
56. Trajković, D., **Matić, G.**, Šoškić, V. & Petrović, J.: Modulation of glucocorticoid receptor binding capacity and nuclear uptake by phosphorylation/dephosphorylation processes. 16th FEBS Meeting, Moscow, 1984, p. 424.
57. Šoškić, V., Trajković, D., Petrović, J., **Matić, G.** & Kidrič, M.: Interaction of some agonists and antagonists with dopamine receptors of the bovine *Nucleus caudatus*. Second Camerino Symposium - Recent Advances in Receptor Chemistry, Camerino, Italy, 1983, p.69.

58. Šoškić, V., Petrović, J., Trajković, D., **Matić, G.** & Kidrič, M.: Influence of some synthetic ergolines on D<sub>1</sub> receptor-bound adenylate cyclase in brain synaptosomes. Second Camerino Symposium - Recent Advances in Receptor Chemistry, Camerino, Italy, 1983, p. 76.
59. Trajković, D., Šoškić, V., Petrović, J. & **Matić, G.**: The effects of some dopamine agonists and antagonists on its binding to specific receptors in bovine *Nucleus caudatus*. XXV Meeting of the Serbian Chemists, Belgrade, 1983, The Journal of the Serbian Chemical Society, 48, 1983, C73.
60. Šoškić, V., Petrović, J., Trajković, D., Kidrič, M. & **Matić, G.**: The abundance of dopamine receptors in various synaptosomal fractions of bovine *Nucleus caudatus*. XXV Meeting of the Serbian Chemists, Belgrade, 1983, The Journal of the Serbian Chemical Society, 48, 1983, C73.
61. Dundjerski, Z., Trajković, D., Petrović, J., Radojčić, M. & **Matić, G.**: The influence of sinter on some ecological and biochemical processes in the soil Micromammalia. VIII Symposium on soil fauna in Yugoslavia, Piran 1982.
62. Trajković, D. & **Matić, G.**: Modification of rat liver glucocorticoid receptor by ATP, alkaline phosphatase and phosphatase inhibitors. FEBS Meeting on Cell Function and Differentiation, Athens, 1982, p.262.
63. **Blečić, G.**, Trajković, D. & Kanazir, D.: Early effects of cortisol on protein phosphorylation in rat liver cytosol. Second Int. Congress on Cell Biology, West Berlin, 1980, Eur. J. Cell Biol., 22, 1980, 71.
64. Trajković, D., **Blečić, G.** & Kanazir, D.: Modulation of glucocorticoid receptor binding capacity by ATP and phosphokinase and phosphatase inhibitors. Second Int. Congress on Cell Biology, West Berlin, 1980, Eur. J. Cell Biol., 22, 1980, 71.
65. **Blečić, G.**, Trajković, D. & Kanazir, D.: Early *in vivo* effects of cortisol on the activity of protein phosphokinases and phosphatases in the rat liver cytosol. II Congress of the Federation of Biochemical Societies of Yugoslavia, Belgrade, 1980, Abstracts, S110.
66. Trajković, D., **Blečić, G.** & Kanazir, D.: The role of the receptor protein phosphorylation/dephosphorylation in glucocorticoid hormones action. II Congress of the Federation of Biochemical Societies of Yugoslavia, Belgrade, 1980, Abstracts, S202.
67. Trajković, D., **Blečić, G.** & Kanazir, D.: Phosphorylation of proteins upon steroid hormones action. XI Int. Congress on Biochemistry, Toronto, 1979, p. 611.
68. Ribarac-Stepić, N., Trajković, D., **Blečić, G.**, Radojčić, M., Metlaš, R., Stefanović, D., Katan, M., Popić, S., Djordjević-Marković, R. & Kanazir, D.: The structure and regulatory function(s) of steroid receptor(s) - New ideas. Int. Symph. Frontiers Bioorg. Chem. Mol. Biol., Moscow-Tashkent, 1978, p. 31-34.