

Pracownia Neurobiologii

Realizowane granty:

- UGrants First, nr 533-D000-GF52-21, 2021, kierownik: dr Beata Grembecka

Publikacje (od 2016 r.):

- Wrona D., Majkutewicz I., Świątek G., Dunacka J., Grembecka B., Glac W.: Dimethyl fumarate as the peripheral blood inflammatory mediators inhibitor in prevention of streptozotocin-induced neuroinflammation in aged rats. *Journal of Inflammation Research*, 2022, vol. 15, s. 33-52.
- Glac W., Dunacka J., Grembecka B., Świątek G., Majkutewicz I., Lewandowska D.: Prolonged peripheral immunosuppressive responses as consequences of random amphetamine treatment, amphetamine withdrawal and subsequent amphetamine challenges in rats, *Journal of NeuroImmune Pharmacology*, 2021, vol. 16, s. 870-887, DOI:10.1007/s11481-021-09988-1
- Grembecka B., Glac W., Listowska M., Jerzemowska G., Plucińska K., Majkutewicz I., Badtke P., Wrona D.: Subthalamic deep brain stimulation affects plasma corticosterone concentration and peripheral immunity changes in rat model of Parkinson's disease, *Journal of NeuroImmune Pharmacology*, vol. 16, nr 2, 2021, s. 454-469, DOI:10.1007/s11481-020-09934-7
- Pierzynowska K., Podlacha M., Gaffke L., Majkutewicz I., Mantej J., Węgrzyn A., Osiadły M., Myślińska D., Węgrzyn G.: Autophagy-dependent mechanism of genistein-mediated elimination of behavioral and biochemical defects in the rat model of sporadic Alzheimer's disease, *Neuropharmacology*, vol. 148, 2019, s. 332-346, DOI:10.1016/j.neuropharm.2019.01.030
- Grygier B., Kubera M., Wrona D., Roman A., Basta-Kaim A., Gruca P., Papp M., Rogoz Z., Leskiewicz M., Budziszewska B.: Stimulatory effect of desipramine on lung metastases of adenocarcinoma MADB 106 in stress highly-sensitive and stress non-reactive rats, *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, vol. 80, nr C, 2018, s. 279-290, DOI:10.1016/j.pnpbp.2017.04.024
- Majkutewicz I., Kurowska E., Podlacha M., Myślińska D., Grembecka B., Ruciński J., Pierzynowska K., Wrona D.: Age-dependent effects of dimethyl fumarate on cognitive and neuropathological features in the streptozotocin-induced rat model of Alzheimer's disease, *Brain Research*, vol. 1686, 2018, s. 19-33, DOI:10.1016/j.brainres.2018.02.016
- Kuzyniak W., Schmidt J., Glac W., Berkholz J., Steinemann G., Hoffmann B., Ermilov E., Gürek A., Ahsen V., Nitsche B.: Novel zinc phthalocyanine as a promising photosensitizer for photodynamic treatment of esophageal cancer, *International Journal of Oncology*, vol. 50, nr 3, 2017, s. 953-963, DOI:10.3892/ijo.2017.3854
- Majkutewicz I., Kurowska E., Podlacha M., Myślińska D., Grembecka B., Ruciński J., Plucińska K., Jerzemowska G., Wrona D.: Dimethyl fumarate attenuates intracerebroventricular streptozotocin-induced spatial memory impairment and hippocampal neurodegeneration in rats, *Behavioural Brain Research*, vol. 308, 2016, s. 24-37, DOI:10.1016/j.bbr.2016.04.012
- Podlacha M., Glac W., Listowska M., Grembecka B., Majkutewicz I., Myślińska D., Plucińska K., Jerzemowska G., Grzybowska M., Wrona D.: Medial septal NMDA glutamate receptors are involved in modulation of blood natural killer cell activity in rats, *Journal of Neuroimmune Pharmacology*, vol. 11, nr 1, 2016, s. 121-132, DOI:10.1007/s11481-015-9632-y

Zrealizowane granty:

- dr Wojciech Glac – Mechanism and individual differences of amphetamine effects on the immune system in rats, NCN, nr 2012/07/B/N24/00216, 2013-2019, kierownik: dr Wojciech Glac
- Wpływ fumaranu dimetylu na obwodowe markery stanów zapalnych u zróżnicowanych behawioralnie szczurów z modelem choroby Alzheimera, Młodzi Naukowcy, nr 538-L124-B145-18, 2018, kierownik: mgr Joanna Dunacka
- The influence of dimethyl fumarate on the spatial memory, neurogenesis neurodegeneration and cerebral inflammation in the rat model of Alzheimer's disease, NCN , nr 2013/09/D/NZ4/01658, 2014-2017, kierownik: dr Irena Majkutewicz
- The impact of the subthalamic nucleus stimulation on lymphocytes apoptosis in rat model of Parkinson's disease, UG, nr 538-L124-B240-16, 2016, kierownik: dr Beata Grembecka
- The role of the subthalamic nucleus in the regulation of natural killer (NK) cell function in rats (KBN/N N303 299937, 2009-2011, kierownik: dr hab. Danuta Lewandowska, prof. UG
- Individual differentiation of anti-tumor activity of NK cells in condition of behavioral depression and antidepressant drug administration in rats, KBN, nr N N303 333536, 2009-2012, kierownik: dr hab. Danuta Lewandowska, prof. UG
- The impact of high frequency subthalamic nucleus stimulation on inflammation and c-Fos expression in hemiparkinsonian rats, UG, nr 538-L125-0776-1, 2011, kierownik: dr Beata Grembecka