

Pracownia Bioenergetyki

Realizowane granty:

1. Projekt NCN PRELUDIUM 2018/29/N/NZ7/01627 pt. **Wpływ treningu pływackiego na przebieg autofagii i stres oksydacyjny w rdzeniu kręgowym myszy ze Stwardnieniem Zanikowym Boczny**; kierownik projektu - Katarzyna Dzik
2. Projekt NCN PRELUDIUM 2018/31/N/NZ7/03680 pt. **Korzystny wpływ witaminy D na metabolizm, stres oksydacyjny oraz atrofię w mięśni szkieletowym, podczas długotrwałego podwyższenia poziomu glikokortykoidów**; kierownik projektu - Mateusz Karnia

Publikacje od 2017 r.:

1. Cieminski K., Flis D., **Dzik K., Kaczor J.**, Czyrko E., Halon-Gołąbek M., Więckowski M., Antosiewicz J., Ziółkowski W.
Swim training affects Akt signaling and ameliorates loss of skeletal muscle mass in a mouse model of amyotrophic lateral sclerosis, Scientific Reports, Nature Publishing Group, vol. 11, 2021, s. 1-10
2. **Dzik K.**, Flis D., Bytowska Z., **Karnia M.**, Ziółkowski W., **Kaczor J.**
Swim training ameliorates hyperlocomotion of ALS mice and increases glutathione peroxidase activity in the spinal cord, International Journal of Molecular Sciences, vol. 22, nr 21, 2021, s. 1-15
3. **Karnia M., Korewo D.**, Myślińska D., Ciepielewski Z., Puchalska M., Konieczna-Wolska K., Kowalski K., **Kaczor J.**
The positive impact of vitamin D on glucocorticoid-dependent skeletal muscle atrophy Nutrients, 2021 : vol. 13, nr 3, art. nr 936, s. 1-15
4. Chromiec P., Urbaś Z., Jacko M., **Kaczor J.**
The Proper Diet and Regular Physical Activity Slow Down the Development of Parkinson Disease Aging and Disease, 2021 Oct 1;12(7):1605-1623
5. Kaczorowska-Hać B., Łuszczuk M., Wasilewska E., Antosiewicz J., **Kaczor J.**
Erythropoietin concentration in boys with p.His63Asp polymorphism of the HFE gene Journal of Pediatric Hematology Oncology, 2021, s. 1-6
6. **Karnia M.**, Myślińska D., **Dzik K.**, Flis D., Podlacha M., **Kaczor J.**
BST stimulation induces atrophy and changes in aerobic energy metabolism in rat skeletal muscles - the biphasic action of endogenous glucocorticoids International Journal of Molecular Sciences, : vol. 21, 2020, nr 8, art. S.1-13
7. Skrobot W., Perzanowska E., Krasowska K., Flis D., **Dzik K.**, Kloc W., **Kaczor J.**, Antosiewicz J.
Vitamin D supplementation improves the effects of the rehabilitation program on

- balance and pressure distribution in patients after anterior cervical interbody fusion-randomized control trial*
Nutrients, : vol. 12, 2020, nr 12, s. 1-14
8. Przewłócka K., Folwarski M., Kaźmierczak-Siedlecka K., Skonieczna-Żydecka K., **Kaczor J.**
Gut-muscle axis exists and may affect skeletal muscle adaptation to training Nutrients, vol. 12, 2020, nr 5, art. nr 1451, s. 1-19
 9. **Dzik K., Kaczor J.**
Mechanisms of vitamin D on skeletal muscle function : oxidative stress, energy metabolism and anabolic state
European Journal of Applied Physiology, : vol. 119, 2019, s. 825-839
 10. **Dzik K.,** Skrobot W., Kaczor K., Flis D., **Karnia M.,** Libionka W., Antosiewicz J., Kloc W., **Kaczor J.**
Vitamin D deficiency is associated with muscle atrophy and reduced mitochondrial function in patients with chronic low back pain
Oxidative Medicine and Cellular Longevity, 2019 : vol. 2019, art. ID 6835341, s. 1-11
 11. Flis D., **Dzik K., Kaczor J.,** Ciemiński K., Hałoń-Gołąbek M., Antosiewicz J., Więckowski M., Ziółkowski W.
Swim training modulates mouse skeletal muscle energy metabolism and ameliorates reduction in grip strength in a mouse model of amyotrophic lateral sclerosis
International Journal of Molecular Sciences, 2019 : vol. 20, nr 2, nr 233, s. 1-14
 12. Krasowska K., Skrobot W., Liedtke E., Sawicki P., Flis D., **Dzik K.,** Libionka W., Kloc W., **Kaczor J.**
The preoperative supplementation with vitamin D attenuated pain intensity and reduced the level of pro-inflammatory markers in patients after posterior lumbar interbody fusion
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 13. Skrobot W., Liedtke E., Krasowska K., **Dzik K.,** Flis D., Samoraj-Dereszkiewicz A., Libionka W., Kortas J., Kloc W., Antosiewicz J., **Kaczor J.**
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Nutrients, 2019 : vol. 11, nr 9, art. nr 2202, s. 1-11
 14. **Dzik K.,** Skrobot W., Flis D., **Karnia M.,** Libionka W., Kloc W., **Kaczor J.**
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European Journal of Applied Physiology, 2018 : vol. 118, nr 1, s. 143-151
 15. Flis D., **Dzik K., Kaczor J.,** Hałoń-Gołąbek M., Antosiewicz J., Więckowski M., Ziółkowski W.
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- mitochondrial cholesterol content in amyotrophic lateral sclerosis mice*
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16. **Karnia M.**, Myślińska D., **Dzik K.**, Flis D., Ciepielewski Z., Podlacha M., **Kaczor J.**
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 17. Hałoń-Gołąbek M., Borkowska A., **Kaczor J.**, Ziółkowski W., Flis D., Knap N., Kasperuk K., Antosiewicz J.
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 19. Sawicki P., Dornowski M., Grzywacz T., **Kaczor J.**
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 20. Sawicki P., **Kaczor J.**
The preliminary analysis of protein catabolism and nitrogen balance in young gymnasts
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 21. Kaszubowska L., Foerster J., **Kaczor J.**, Schetz D., Ślebioda T., Kmieć Z.
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 22. Kaczorowska-Hać B., Łuszczuk M., Antosiewicz J., Ziółkowski W., Adamkiewicz-Drożyńska E., Myśliwiec M., Miłoś E., **Kaczor J.**
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Journal of Pediatric Hematology Oncology, 2017 : vol. 39, nr 5, s. e240-e243
 23. **Kaczor J.**, Robertshaw H., Tarnopolsky M.
Higher oxidative stress in skeletal muscle of McArdle disease patients Molecular Genetics and Metabolism Reports, 2017 : vol. 12, s. 69-75