

Publications (Wessner)

- Neubauer, O., Sabapathy, S., Ashton, K. J., Desbrow, B., Peake, J. M., Lazarus, R., Wessner, B., Cameron-Smith, D., Wagner, K. H., Haseler, L. J., & Bulmer, A. C. (2014). Time course-dependent changes in the transcriptome of human skeletal muscle during recovery from endurance exercise: from inflammation to adaptive remodeling. *J Appl Physiol (1985)*, *116*(3), 274-287.
- Wessner, B. (2014). Regulation of Immunological Pathways by MicroRNAs in Health and Disease. *International Journal of Exercise Science: Conference Proceedings*
- Schlegel, W., Raimann, A., Halbauer, D., Scharmer, D., Sagmeister, S., Wessner, B., Helmreich, M., Haeusler, G., & Egerbacher, M. (2013). Insulin-Like Growth Factor I (IGF-1) Ec/Mechano Growth Factor - A Splice Variant of IGF-1 within the Growth Plate. *PLoS One*, *8*(10), e76133.
- Hart, N., Sarga, L., Csende, Z., Koltai, E., Koch, L. G., Britton, S. L., Davies, K. J., Kouretas, D., Wessner, B., & Radak, Z. (2013). Resveratrol enhances exercise training responses in rats selectively bred for high running performance. *Food Chem Toxicol*, *61*, 53-59.
- Halper, B., Hofmann, M., Oesen, S., Wagner, K-H., & Wessner, B. (2013). Age-related differences of microRNA-21 in leukocytes and its association with physical performance. *International Journal of Exercise Science: Conference Proceedings*.
- Wessner, B., Gryadunov-Masutti, L., Tschan, H., Bachl, N., & Roth, E. (2010). Is there a role for microRNAs in exercise immunology? A synopsis of current literature and future developments. *Exerc Immunol Rev*, *16*, 22-39.
- Goldspink, G., Wessner, B., Tschan, H., & Bachl, N. (2010). Growth factors, muscle function, and doping. *Endocrinol Metab Clin North Am*, *39*(1), 169-181, xi.
- Wirtitsch, M., Roth, E., Bachleitner-Hofmann, T., Wessner, B., & Sturlan, S. (2009). Omega-3 and omega-6 polyunsaturated fatty acids enhance arsenic trioxide efficacy in arsenic trioxide-resistant leukemic and solid tumor cells. *Oncol Res*, *18*(2-3), 83-94.
- Strasser, E. M., Stattner, S., Karner, J., Klimpfinger, M., Freynhofer, M., Zaller, V., Graf, A., Wessner, B., Bachl, N., Roth, E., & Quittan, M. (2009). Neuromuscular electrical stimulation reduces skeletal muscle protein degradation and stimulates insulin-like growth factors in an age- and current-dependent manner: a randomized, controlled clinical trial in major abdominal surgical patients. *Ann Surg*, *249*(5), 738-743.
- Petricevic, B., Wessner, B., Sachet, M., Vrbanc, D., Spittler, A., & Bergmann, M. (2009). CL097, a TLR7/8 ligand, inhibits TLR-4--dependent activation of IRAK-M and BCL-3 expression. *Shock*, *32*(5), 484-490.
- Bachl, N., Derman, W., Engebretsen, L., Goldspink, G., Kinzlbauer, M., Tschan, H., Volpi, P., Venter, D., & Wessner, B. (2009). Therapeutic use of growth factors in the musculoskeletal system in sports-related injuries. *J Sports Med Phys Fitness*, *49*(4), 346-357.
- Goldspink, G., Wessner, B., & Bachl, N. (2008). Growth factors, muscle function and doping. *Curr Opin Pharmacol*, *8*(3), 352-357.
- Bachl, N., Ruoff, G., Wessner, B., & Tschan, H. (2008). Electromagnetic interventions in musculoskeletal disorders. *Clin Sports Med*, *27*(1), 87-105, viii.
- Wirtitsch, M., Wessner, B., Spittler, A., Roth, E., Volk, T., Bachmann, L., & Hiesmayr, M. (2007). Effect of different lipid emulsions on the immunological function in humans: a systematic review with meta-analysis. *Clin Nutr*, *26*(3), 302-313.
- Wessner, B., Strasser, E. M., Koitz, N., Schmuckenschlager, C., Unger-Manhart, N., & Roth, E. (2007). Green tea polyphenol administration partly ameliorates chemotherapy-induced side effects in the small intestine of mice. *J Nutr*, *137*(3), 634-640.

- Strasser, E. M., Wessner, B., & Roth, E. (2007). [Cellular regulation of anabolism and catabolism in skeletal muscle during immobilisation, aging and critical illness]. *Wien Klin Wochenschr*, *119*(11-12), 337-348.
- Wessner, B., Strasser, E. M., Manhart, N., & Roth, E. (2006). Supply of R-alpha-lipoic acid and glutamine to casein-fed mice influences the number of B lymphocytes and tissue glutathione levels during endotoxemia. *Wien Klin Wochenschr*, *118*(3-4), 100-107.
- Sadeghi, K., Wessner, B., Laggner, U., Ploder, M., Tamandl, D., Friedl, J., Zugel, U., Steinmeyer, A., Pollak, A., Roth, E., Boltz-Nitulescu, G., & Spittler, A. (2006). Vitamin D3 down-regulates monocyte TLR expression and triggers hyporesponsiveness to pathogen-associated molecular patterns. *Eur J Immunol*, *36*(2), 361-370.
- Ploder, M., Pelinka, L., Schmuckenschlager, C., Wessner, B., Ankersmit, H. J., Fuerst, W., Redl, H., Roth, E., & Spittler, A. (2006). Lipopolysaccharide-induced tumor necrosis factor alpha production and not monocyte human leukocyte antigen-DR expression is correlated with survival in septic trauma patients. *Shock*, *25*(2), 129-134.
- Strasser, E. M., Wessner, B., Manhart, N., & Roth, E. (2005). The relationship between the anti-inflammatory effects of curcumin and cellular glutathione content in myelomonocytic cells. *Biochem Pharmacol*, *70*(4), 552-559.
- Roth, E., & Wessner, B. (2005). [L-arginine: an amino acid with multiple effects]. *Wien Klin Wochenschr*, *117*(19-20), 666-672.
- Roth, E., Manhart, N., & Wessner, B. (2004). Assessing the antioxidative status in critically ill patients. *Curr Opin Clin Nutr Metab Care*, *7*(2), 161-168.
- Baumgartner, M., Sturlan, S., Roth, E., Wessner, B., & Bachleitner-Hofmann, T. (2004). Enhancement of arsenic trioxide-mediated apoptosis using docosahexaenoic acid in arsenic trioxide-resistant solid tumor cells. *Int J Cancer*, *112*(4), 707-712.
- Wessner, B., Strasser, E. M., Spittler, A., & Roth, E. (2003). Effect of single and combined supply of glutamine, glycine, N-acetylcysteine, and R,S-alpha-lipoic acid on glutathione content of myelomonocytic cells. *Clin Nutr*, *22*(6), 515-522.
- Tamandl, D., Bahrami, M., Wessner, B., Weigel, G., Ploder, M., Furst, W., Roth, E., Boltz-Nitulescu, G., & Spittler, A. (2003). Modulation of toll-like receptor 4 expression on human monocytes by tumor necrosis factor and interleukin-6: tumor necrosis factor evokes lipopolysaccharide hyporesponsiveness, whereas interleukin-6 enhances lipopolysaccharide activity. *Shock*, *20*(3), 224-229.
- Sturlan, S., Schneeberger, A., Fang, M., Beinbauer, B. G., Luhrs, P., Kutil, R., Wessner, B., Huang, L., Aasen, A. O., & Rogy, M. A. (2003). Intraperitoneal administration of pMP6/liposome complexes inhibits the growth of co-localized colon-26 adenocarcinoma cells by inducing a tumor-specific immune response. *Anticancer Res*, *23*(6C), 4843-4851.
- Roth, E., Zellner, M., Wessner, B., Strasser, E., Manhart, N., Oehler, R., & Spittler, A. (2003). Glycine--an inert amino acid comes alive. *Nutrition*, *19*(9), 817-818.
- Roth, E., Oehler, R., Manhart, N., Exner, R., Wessner, B., Strasser, E., & Spittler, A. (2002). Regulative potential of glutamine--relation to glutathione metabolism. *Nutrition*, *18*(3), 217-221.
- Exner, R., Wessner, B., Manhart, N., & Roth, E. (2000). Therapeutic potential of glutathione. *Wien Klin Wochenschr*, *112*(14), 610-616.