

## Publikationen 2023

- Alt, T., Knicker, A., Nodler, Y., & Strüder, H. K. (2023). What Are We Aiming for in Eccentric Hamstring Training: Angle-Specific Control or Supramaximal Stimulus? *Journal of sport rehabilitation*, 1-8. <https://doi.org/10.1123/jsr.2022-0372>
- Alt, T., Nolte, K., Horn, D., & Knicker, A. (2023). Discrete isokinetic knee flexor and extensor data - Normative values of 201 female and 308 male healthy athletes. [https://www.researchgate.net/publication/369579659\\_Discrete\\_isokinetic\\_knee\\_flexor\\_and\\_extensor\\_data\\_-\\_Normative\\_values\\_of\\_201\\_female\\_and\\_308\\_male\\_healthy\\_athletes](https://www.researchgate.net/publication/369579659_Discrete_isokinetic_knee_flexor_and_extensor_data_-_Normative_values_of_201_female_and_308_male_healthy_athletes)
- Bauhaus, H., Erdogan, P., Braun, H., & Thevis, M. (2023). Continuous Glucose Monitoring (CGM) in Sports—A Comparison between a CGM Device and Lab-Based Glucose Analyser under Resting and Exercising Conditions in Athletes. *International Journal of Environmental Research and Public Health*, 20(15), [6440]. <https://doi.org/10.3390/ijerph20156440>
- Deuker, A., Behm, S., Stapmanns, L., Fay, L., Klemp, M., Braunstein, B., Vogt, T., & Rein, R. (2023). Direction matters when designing football practice – Investigating the representativeness of possession games via positional data. in *eProceedings of the European College of Sport Science (ECSS): 28th Annual Congress of the European College of Sport Science, Explore Enlighten Perform*, 4-7 July 2023, France [775].
- Deuker, A., Braunstein, B., Chow, J. Y., Fichtl, M., Kim, H., Körner, S., & Rein, R. (2023). “Train as you play”: Improving effectiveness of training in youth soccer players. *International Journal of Sports Science & Coaching*. <https://doi.org/10.1177/17479541231172702>
- Deuker, A., Wittkugel, J., Dublin, Y., Klatt, S., Körner, S., Vogt, T., Braunstein, B., Rein, R., & Klemp, M. (2023). Analyzing the effect of reduced field sizes on tactical behaviour in 11 versus 11 football practice. in *Book of Abstracts : WCSF Gro (S. 240)*. [P253] World Congress on Science and Football.
- Deutsch, J-P., Rieke, M., Rein, R., Braunstein, B., & Bassek, M. (2023). Change of direction demands in German high-performance soccer. in *Book of Abstracts: WCSF Gro (S. 139)*. [O741] World Congress on Science and Football.
- Dragutinovic, B., Jacobs, M., Feuerbacher, J., Goldmann, J-P., Cheng, S., & Schumann, M. (2023). Evaluation of the vmaxpro sensor for assessing movement velocity and load-velocity variables: accuracy and implications for practical use. *Biology of sport*, 41(1), 41-51. <https://doi.org/10.5114/biolSport.2024.125596>
- Fischer, J., Keller, S., & Wahl, P. (2023). Comparison of modeled lactate threshold with maximal metabolic steady state in running and cycling. in T. Schlesinger, E. Grimmer-Seidensticker, A. Ferrauti, M. Kellmann, C. Thiel, & L. Kullik (Hrsg.), *Leistung steuern. Gesundheit stärken. Entwicklung fördern: 26. dvs-Hochschultag, Bochum, 20.–22. September 2023 : Abstracts (Band 301, S. 294)*. (Schriften der Deutschen Vereinigung für Sportwissenschaft; Band 301). Feldhaus, Edition Czwalina.
- Franz, A., Bielitzki, R., Behrendt, T., Centner, C., Behrens, M., Held, S., Donath, L., Augste, C., Sandau, I., Granacher, U., Hoppe, M. W., Wegener, F., stadtfeld, T., Beitzel, K., Wahl, P., Fett, D., Horn, A., & Behringer, M. (2023). Positionspapier zum Blood-Flow-Restriction Training. Bundesinstitut für Sportwissenschaft.
- Funken, J., Zedler, M., Lüdorff, S., Alt, T., Heinrich, K., & Potthast, W. (2023). Force Profile of Functional Leg Muscle Groups in Curve Sprinting - Preliminary Results. in *ISBS Conference Proceedings Archive: 41st International Society of Biomechanics in Sports Conference (Band 41, S. 1-4)*.

- <https://commons.nmu.edu/cgi/viewcontent.cgi?article=2648&context=isbs>
- Goldmann, J-P., & Braunstein, B. (2023). Schnelles Laufen - Biomechanische Aspekte linearer Beschleunigung. in Abstractband des NRW Kongress 2023 – Nachwuchsförderung
- Goldmann, J-P., Grothe, S., & Kersting, U. (2023). Arch-spring or windlass mechanism? The stiffness of sprinters' and swimmers' feet: A pilot study. in G. Guilhem, G. Rabita, F. Brocherie, E. Tsolakidis, A. Ferrauti, J. W. Helge, & M. F. Piacentini (Hrsg.), Book of Abstracts of the 28 th Annual Congress of the European College of Sport Science, 4 – 7 July 2023 (S. 690-691). ECSS.
- Haller, N., Behringer, M., Reichel, T., Wahl, P., Simon, P., Krüger, K., Zimmer, P., & Stöggl, T. (2023). Blood-Based Biomarkers for Managing Workload in Athletes: Considerations and Recommendations for Evidence-Based Use of Established Biomarkers. *Sports medicine (Auckland, N.Z.)*, 53(7), 1315-1333. <https://doi.org/10.1007/s40279-023-01836-x>
- Haller, N., Reichel, T., Zimmer, P., Behringer, M., Wahl, P., Stöggl, T., Krüger, K., & Simon, P. (2023). Blood-Based Biomarkers for Managing Workload in Athletes: Perspectives for Research on Emerging Biomarkers. *Sports medicine (Auckland, N.Z.)*. <https://doi.org/10.1007/s40279-023-01866-5>
- Heydenreich, J., Koehler, K., Braun, H., Grosshauser, M., Hesecker, H., Koenig, D., Lampen, A., Mosler, S., Niess, A., Schek, A., & Carlsohn, A. (2023). Effects of internal cooling on physical performance, physiological and perceptual parameters when exercising in the heat: A systematic review with meta-analyses. *Frontiers in Physiology*, 14, 1-17. <https://doi.org/10.3389/fphys.2023.1125969>
- Ji, S., Franz, A., Behringer, M., & Wahl, P. (2023). Acute local and systemic responses to a modulated exercise stimulus using Blood Flow Restriction. in Book of Abstracts of 28th Annual Congress of the European College of Sport Science: 4 - 7 July 2023 (S. 807 - 808).
- Keller, S., Ji, S., Feuerbacher, J. F., Dragutinovic, B., Schumann, M., & Wahl, P. (2023). Development and Interplay of Metabolic and Mechanical Performance Determinants Over an Annual Training Period in Adolescent National-Level Squad Swimmers. *International journal of sports physiology and performance*, 1-14. <https://doi.org/10.1123/ijsp.2023-0072>
- Keller, S., & Wahl, P. (2023). RELATIONSHIP BETWEEN METABOLIC AND MECHANICAL DETERMINANTS AND PERFORMANCE IN YOUNG FEMALE SQUAD SWIMMERS. in M. Witt (Hrsg.), Book of Abstract of the XIVth International Symposium on BIOMECHANICS AND MEDICINE IN SWIMMING (S. 43)
- Knicker, A., Abdulhafiz, H., & Horn, D. (2023). Muskuläre Dysbalancen - Einfluss auf sportliche Leistung und Verletzungssymptomaten. in Abstractband des NRW Kongress 2023 – Nachwuchsförderung
- Lingscheid, R., Göll, F., Nuesse, R., Albracht, K., & Braunstein, B. (2023). Does frequent high-Gz fast jet flying affect the mechanical properties of the neck muscles? Eurofighter pilots versus matched non-pilots. *Aerospace Medicine and Human Performance*, 94(4), 281. [352].
- Oepfert, T., Zedler, M., Goldmann, J-P., Braunstein, B., Willwacher, S., & Alt, T. (2023). A novel framework for the analysis of linear acceleration mechanics focussing on 'Shin Roll'. How to Rock N' Roll'? in eProceedings of the European College of Sport Science (ECSS): 28th Annual Congress of the European College of Sport Science, Explore Enlighten Perform, 4-7 July 2023, France [3083].
- Poweleit, A., & Ohlert, J. (2023). Wissenschaftliches Denken und Arbeiten im Sport-Lehramtsstudium: Zufriedenheit und gewünschte Zusatzangebote. *Zeitschrift für Studium und Lehre in der Sportwissenschaft*, 6(1), 15-23. <https://doi.org/10.25847/zsls.2021.054>
- Röhrs, G., Keller, S., & Wahl, P. (2023). Strenuous cycling does not affect running economy and kinematics in youth squad triathletes. in T. Schlesinger, E. Grimminger-Seidensticker, A. Ferrauti, M. Kellmann, C. Thiel, & L. Kullik (Hrsg.), Leistung steuern. Gesundheit stärken. Entwicklung fördern: 26. dvs-Hochschultag, Bochum, 20.–22. September 2023 : Abstracts (Band 301, S. 295). (Schriften der Deutschen Vereinigung für Sportwissenschaft; Band 301). Feldhaus, Edition Czwalina.
- Singla, R., Niederer, D., Franz, A., Happ, K., Zilkens, C., Wahl, P., & Behringer, M. (2023). The course of knee extensor strength after total knee arthroplasty: a systematic review with meta-analysis and -regression. *Archives of orthopaedic and trauma surgery*. <https://doi.org/10.1007/s00402-022-04750-5>
- Singla, R., Niederer, D., Franz, A., Happ, K., Zilkens, C., Wahl, P., & Behringer, M. (2023). Correction to: The course of knee extensor strength after total knee arthroplasty: a systematic review with meta-analysis and -regression (*Archives of Orthopaedic and Trauma Surgery*, (2023), 10.1007/s00402-022-04750-5): The course of knee extensor strength after total knee arthroplasty: a

- systematic review with meta-analysis and -regression. Archives of orthopaedic and trauma surgery. <https://doi.org/10.1007/s00402-023-04808-y>
- Sommer, A., Fischer, R., Borges, U., Laborde, S., Achtzehn, S., & Liepelt, R. (2023). The effect of transcutaneous auricular vagus nerve stimulation (taVNS) on cognitive control in multitasking. *Neuropsychologia*, 187, [108614]. <https://doi.org/10.1016/j.neuropsychologia.2023.108614>
- Stöggel, T. L., Strepp, T., Blumkaitis, J., Schmuttermair, A., Wahl, P., & Haller, N. (2023). Unraveling the mystery of isocaloric endurance training - Influence of exercise modality, biological sex, and physical fitness. *Metabolism: clinical and experimental*, 144, [155582]. [doi.org/10.1016/j.metabol.2023.155582](https://doi.org/10.1016/j.metabol.2023.155582)
- Tuma, C., Thomas, A., Braun, H., & Thevis, M. (2023). Quantification of 25-hydroxyvitamin D2 and D3 in Mitra® devices with volumetric absorptive microsampling technology (VAMS®) by UHPLC-HRMS for regular vitamin D status monitoring. *Journal of pharmaceutical and biomedical analysis*, 228, 115314. <https://doi.org/10.1016/j.jpba.2023.115314>
- Wahl, P., & Keller, S. (2023). Von der Diagnostik zum individualisierten Training – Ansätze aus dem Schwimmen. in NRW Kongress Nachwuchsförderung 2023: Mit angewandter Wissenschaft zur sportlichen Exzellenz
- Wahl, P., Sommer, A., & Schifferdecker, I. (2023). Zusammenhänge zwischen Geschwindigkeits-/Leistungsprofilen und physiologischen Charakteristika. in NRW Kongress Nachwuchsförderung 2023: Mit angewandter Wissenschaft zur sportlichen Exzellenz
- Wieber, J., Brandt, J., Hirschhäuser, E., Pieper, M., Rein, R., Catala-Lehnen, P., Reer, R., & Braunstein, B. (2023). Effects of body orientation and direction of movement on a knee joint angle reproduction test in healthy subjects: an experimental study. *German Journal of Sports Medicine*, 74(4), 155. [242 PT-10-008]. [www.germanjournalsportsmedicine.com/fileadmin/content/archiv2023/Issue\\_4/DtschZSportmed\\_Abstracts\\_2023-04.pdf](http://www.germanjournalsportsmedicine.com/fileadmin/content/archiv2023/Issue_4/DtschZSportmed_Abstracts_2023-04.pdf)
- Wieber, J., Brandt, J., Pieper, M., Hirschhäuser, E., Catalá-Lehnen, P., Rein, R., & Braunstein, B. (2023). Effects of body orientation and direction of movement on a knee joint angle reproduction test in healthy subjects: An experimental study. *Technology and health care : official journal of the European Society for Engineering and Medicine*. <https://doi.org/10.3233/THC-220747>
- Wieber, J., Rein, R., Pieper, M., Hirschhäuser, E., Brandt, J., Catala-Lehnen, P., Reer, R., & Braunstein, B. (Angenommen/Im Druck). The measurement of the knee joint position sense – Different test settings affecting the resulting angle reproduction error. in Abstractsband des 7. Forschungssymposiums für Physiotherapiewissenschaft (Band 7).
- Wittkugel, J., Deuker, A., Jakobs, J., Braunstein, B., Rein, R., & Vogt, T. (2023). Influence of reduced field area on tactical behaviour in 11vs11 football practice games. in eProceedings of the European College of Sport Science (ECSS): 28th Annual Congress of the European College of Sport Science, Explore Enlighten Perform, 4-7 July 2023, France [1508] European College of Sport Science.
- Zedler, M., Braunstein, B., Potthast, W., & Goldmann, J-P. (2023). Evaluating performance measures for the bobsleigh push start. in eProceedings the annual conference of the International Society of Biomechanics in Sports (ISBS) (Band 41, S. 1-4). <https://commons.nmu.edu/cgi/viewcontent.cgi?article=2614&context=isbs>
- Zedler, M., Schopper, V., Potthast, W., & Goldmann, J-P. (2023). Predicting active foot contact in the acceleration phase of athletic sprinting through accelerometer measurements. in ISBS Conference Proceedings Archive: 41st International Society of Biomechanics in Sports Conference (1 Aufl., Band 41, S. 1-4). [117] International Society of Biomechanics in Sports. <https://commons.nmu.edu/isbs/vol41/iss1/117/>