

# Forschungoutput

## 1 Journalpublikationen

- Bartsch, A., Nüesch, C., Rieger, B., Mündermann, A. and Egloff, C. (2022): *Dynamic versus static medial patellofemoral ligament reconstruction technique in the treatment of recurrent patellar dislocation: a randomized clinical trial protocol*. J Orthop Surg Res 17: 345.
- Baumgartner, W., Wolint, P., Hofmann, S., Nüesch, C., Calcagni, M., Brunelli, M. and Buschmann, J. (2022): *Impact of Electrospun Piezoelectric Core-Shell PVDFhfp/PDMS Mesh on Tenogenic and Inflammatory Gene Expression in Human Adipose-Derived Stem Cells: Comparison of Static Cultivation with Uniaxial Cyclic Tensile Stretching*. Bioengineering (Basel) 9.
- Bless, N., Keller, N., Steinitz, A., Klein, T. and Rikli, D. (2022): *Analysis of the subcapital two-part humerus fracture by fluoroscopy: objective criteria for classification and decision making*. Arch Orthop Trauma Surg 142: 2253-2262.
- Boutellier, A., Nüesch, C., Suter, P., Perrot, G. and Mündermann, A. (2022): *Trunk muscle function and its association with functional limitations in sedentary occupation workers with and without chronic nonspecific low back pain*. J Back Musculoskelet Rehabil 35: 783-791.
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- Croci, E., Eckers, F., Nüesch, C., Aghlmandi, S., Kovacs, B. K., Genter, J., Baumgartner, D., Müller, A. M. and Mündermann, A. (2022): *Load-Induced Glenohumeral Translation After Rotator Cuff Tears: Protocol for an In Vivo Study*. JMIR Res Protoc 11: e43769.
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- De Pieri, E., Nüesch, C., Pagenstert, G., Viehweger, E., Egloff, C. and Mündermann, A. (2022): *High tibial osteotomy effectively redistributes compressive knee loads during walking*. J Orthop Res.
- Dlaska, C., Ismailidis, P., Doma, K., Brandon, B., Wilkinson, M. and Hazratwala, K. (2022): *Femoral Component Rotation in Total Knee Arthroplasty Using a Tibia-First, Gap-Balancing, "Functional Alignment" Technique*. J Clin Med 11.
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- Kvarda, P., Puelacher, C., Clauss, M., Kuehl, R., Gerhard, H., Müller, C., Morgenstern, M. and Group, B. A.-P.-O. R. (2022): *Perioperative myocardial injury and mortality after revision surgery for orthopaedic device-related infection*. Bone Joint J 104-B: 696-702.
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## 2 Kongressbeiträge

- Bartsch A, Nüesch C, Rieger B, Mündermann A, Egloff C. Dynamic versus static medial patellofemoral ligament operation technique for recurrent patellar dislocation: a randomized clinical trial protocol. 39th AGA Congress; Sept 2022, 2022; Vienna, Austria.
- Baum C, Stojanov T, Audigé L, Moroder S, Müller SA, Müller AM. Development and validation of a diagnostic prediction model for the active shoulder flexion in patients undergoing arthroscopic rotator cuff repair in the context of the ARCR\_Pred cohort study. DVSE Congress; Jul 2022, 2022; Munich, Germany.
- Bilici M, Reinhardt J, Vermes T, Morgenstern M, Müller AM, Rikli D. Outcome Oriented Clinical Research and Quality Measurement in Fracture Care. Jahreskongress Schweizer Gesellschaft für Chirurgie; Jun 2022, 2022; Bern, Switzerland.
- Bilici M, Reinhardt J, Vermes T, Morgenstern M, Rikli D. Outcome Oriented Clinical Research and Quality Measurement in Fracture Care. Surgical Research Day 2022; Febr 2022, 2022; Basel, Switzerland.
- Borukhov I, Esposito C, Ismailidis P, et al. CT-based Assessment of Native Trochlear Sulcus Orientation in Non-Arthritic Knees. Consequences for TKA Design. 82. Annual Conference of Swiss Orthopaedics; Jun 2022, 2022; Basel, Switzerland.
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- Bühl L, Bleichner N, Nüesch C, et al. Proprioception, muscle activity and tibial translation during heel strike in running: role of ACL surgery type. 27th Congress of the European Society of Biomechanics (ESB); June 2022, 2022; Porto, Portugal.
- Bühl L, Müller S, Nüesch C, Pagenstert G, Mündermann A, Egloff C. Leistungsdefizite im Gleichgewicht und Sprung: VKB Naht und InternalBrace vs. VKB Rekonstruktion vs. Gesund. 32nd Congress of the German Society of Orthopaedics and Traumatology in Sports (GOTS); May 2022, 2022; Berlin, Germany.
- Bühl L, Müller SA, Nüesch C, Pagenstert G, Mündermann A, Egloff C. Knieleistung in funktionellen Tests 2 Jahre nach VKB Operation: Ein Vergleich zwischen VKB Naht und InternalBraceTM, VKB Rekonstruktion und Gesunden. Congress of the German Society of Biomechanics (DGfB); Sept 2022, 2022; Cologne, Germany.
- Bühler D, Heinrich A, Kunz S, Eckardt A, Ilchmann T. Effect of the surgical approach on the introduction of an enhanced recovery pathway for elective total hip arthroplasty SGOT Jahreskongress 2022; June 2022; Basel, Switzerland.
- Bühler D, Hilpert M, Wolf F, et al. Age-independent increase of cellular senescence and Ezh2 expression in human chronic shoulder tendinopathies and its positive response to senotherapeutics. ESSKA Jahreskongress 2022; Apr 2022; Paris, France.
- Bühler D, Hilpert M, Wolf F, et al. Age-Independent Increase Of Cellular Senescence In Chronic Human Shoulder Tendinopathies And Its Attenuation By Enhancer Of Zeste 2 Inhibition. OARSI Jahreskongress 2022; Apr 2022; Berlin, Germany.
- Bühler D, Kaim A, Eckardt A, Ilchmann T. Effect Of Introducing An Enhanced Recovery Pathway For Elective Total Knee Arthroplasty In A Swiss Hospital. EFORT Jahreskongress 2022; June 2022; Lissabon, Portugal.
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- Croci E, Born M, Eckers F, et al. Reliability of isometric shoulder strength during abduction and rotation movements with the Biodex dynamometer. Congress of the German Society of Biomechanics (DGfB); Sept 2022, 2022; Cologne, Germany.

- Croci E, Künzler M, Börlin S, et al. Reliability of fluoroscopic assessment of glenohumeral translation during a 30° shoulder abduction test. 27th Congress of the European Society of Biomechanics (ESB); June 2022, 2022; Porto, Portugal.
- Croci E, Warmuth F, Künzler M, et al. Assessment of glenohumeral translation: motion capture vs. fluoroscopy. International Shoulder Group Conference; August 2022, 2022; Delft, The Netherlands.
- De Pieri E, Nüesch C, Pagenstert G, Viehweger E, Egloff C, Mündermann A. High tibial osteotomy normalizes knee ambulatory loads. 27th Congress of the European Society of Biomechanics (ESB); June 2022, 2022; Porto, Portugal.
- Dreiner M, Zaucke F, Mündermann A, Liphardt AM, Niehoff A. Blood cartilage biomarkers in response to 21-days bed rest with exercise and nutrition countermeasures. 2022 World Congress of the Osteoarthritis Research Society International (OARSI); April 2022, 2022; Berlin, Germany.
- Eckers F, Croci E, Künzler M, et al. Fluoroskopische Reliabilität der Glenohumeralen Translation während eines Abduktions-Adduktions-Zyklus von 0° bis 30°. 28. Jahreskongress der Deutschen Vereinigung für Schulter- und Ellenbogenchirurgie, July 2022, Munich, Germany; July 2022, 2022; Munich, Germany.
- Eckhardt H, Morgenstern M, Cadosch D, Stoffel K. Fluoroscopic control of tibia torsion after intramedullary nailing, a technical trick. Swiss Orthopaedic Association Congress; Jun 2022, 2022; Basel, Switzerland.
- Genter J, Croci E, Eckers F, et al. Glenohumeral contact pressure path: an ex-vivo study. Congress of the German Society of Biomechanics (DGfB); Sept 2022, 2022; Cologne, Germany.
- Genter J, Croci E, Eckers F, et al. Glenohumeral instability in rotator cuff tears: an ex-vivo study. International Shoulder Group Conference; August 2022, 2022; Delft, The Netherlands.
- Genter J, Rauter G, Rohner M, Müller AM, Mündermann A, Baumgartner D. Control system of a muscular controlled, experimental glenohumeral simulator. 27th Congress of the European Society of Biomechanics (ESB); June 2022, 2022; Porto, Portugal.
- Genter J, Rauter G, Rohner M, Müller AM, Mündermann A, Baumgartner D. A muscular controlled, ex vivo glenohumeral simulator. 81st Annual Congress of swiss orthopaedics; June 2022, 2022; Basel, Switzerland.
- Gueorguiev B, Stoffel K, Zderic I, et al. Anterior Variable Angle Locked Plating Of Simple And Complex Patella Fractures Advantageous Over Tension Band Wiring? A Biomechanical Cadaveric Study. EFORT Congress; Jun 2022, 2022; Lisbon, Portugal.
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