

# **Universitätsklinik für Orthopädische Chirurgie und Traumatologie**

## ***Jahresbericht 2025***

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## Personelles

### Klinikdirektor und Chefarzt

Prof. Dr. Moritz Tannast

### Stv. Klinikdirektor

vakant

### Teamleiter/Leitende Ärzte

Prof. Dr. M. Tannast	Hüfte, Becken
Prof. Dr. J. Bastian	Hüfte, Becken, Alterstraumatologie
PD Dr. A. Eggimann	Alterstraumatologie
Prof. Dr. S. Steppacher	Hüfte, Becken
Prof. Dr. M. Deml, Leiter	Wirbelsäule
Prof. Dr. Dr. F. Klenke	Tumorchirurgie
PD Dr. E. Liechti	Knie und Sportverletzungen
Prof. Dr. Th. Lustenberger	Wirbelsäule, Sprunggelenk und Fuss, Traumatologie
PD Dr. M. Schär, Leiter	Obere Extremität und Sport
PD Dr. H. Anwander	Sprunggelenk und Fuss

### Spitalfachärzte/Oberärzte/OA-Stv.

Despotidis Vasileios, dipl. Arzt	Ivanova Silviya, Dr. med.	Suter Dominik, Dr. med.
Eberlein Sophie, Dr. med.	Küenzler Michael, Dr. med.	Tinner Christian, Dr. med.
Gewiess Jan, Dr. med.	Kuttner Hannes, Dr. med.	Urbani Elisa, Dr. med.
Gussarow Philipp, Dr. med.	Leibold Christiane, Dr. med.	Wangler Sebastian, PD Dr. Dr.
Häckel Sonja, PD Dr.	Moser Helen, Dr. med.	Zurmühle Corinne, Dr. med.
Hecht Verena, Dr. med.	Stoerrle Philipp, dipl. Arzt	
Holtmann Julia, Dr. med.		

### Konsiliarii

Albers Christoph, Prof. Dr. med.	Siebenrock Klaus, Prof. em.
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### Assistenzärzte

Adamonis Saulius, dipl. Arzt	Heininger Friederike, dipl. Ärztin	Raber Christian, Dr. med.
Bachmann Michelle, dipl. Ärztin	Islami Valon, dipl. Arzt	Schaible Samuel, dipl. Arzt
Blunier Raphael, Dr. Med.	Karampitanis Spyridon, dipl. Arzt	Schmid Dominik, dipl. Arzt
Bonchis Raul, dipl. Arzt	Koffas Stefanos, dipl. Arzt	Vetter Philipp, Dr. Med.
Bubulis Domas, dipl. Arzt	Kuijpers Daniël, dipl. Arzt	Dr. med. univ. Volianskyi Ivan
Chantzara Andromachi, dipl. Ärztin	Lupi Valérie, dipl. Ärztin	Vytlačil Barbara, dipl. Ärztin
Egger Valentina, Dr. med. univ.	Nachtsheim Julian, Dr. med.	Vuillemin Nicolas, Dr. med.
Erbach Georg, dipl. Arzt	Papaccio Gabriele, dipl. Arzt	Westerkamp Robert, dipl. Arzt
Gussarow Philipp, dipl. Arzt	Petruska Michal, dipl. Arzt	Wetzel Oliver, Dr. med.
Haxhibeqiri Atdhe	Pohle Fabienne, Dr. med.	

## **Wissenschaftliche Ärzte und Mitarbeiter**

Alonso Domenech Elisabeth, dipl. Ärztin	Wissenschaftliche Assistenzärztin Hüfte
Gantenbein Benjamin, Prof.	Tissue Engineering, Orthopaedic Research & Mechanobiology
Gerber Kate, PD Dr.	AI in Orthopaedic Surgery
Gerber Nicolas, Dr.	AI in Orthopaedic Surgery
Meier Malin, Dr. Dr. med.	Wissenschaftliche Ärztin
Roshardt José, Dr. med. univ.	Wissenschaftlicher Arzt Hüfte

## Forschung und Lehre

### Preise/Ehrungen

Alonso Domenech B, Roshardt JA, Meier MK, Hirt J, Schmaranzer F, Ruckli A, Gerber N, Tannast M, Steppacher SD.

M.E. Müller Preis für die beste Arbeit Grundlagenforschung 2025:

Swiss orthopaedics Jahreskongress, Zürich, 2025.

AI-Powered 3D MRI Biochemical Analysis of Acetabular Cartilage Composition in Hip Protrusio and Dysplasia Using Volumetric dGEMRIC.

Bermudez Lekerika P.

Best PhD Thesis Award 2025:

Stem Cell and Regenerative Medicine Platform (SCRM), Faculty of Medicine, University of Bern, Switzerland.

Interpreting Intervertebral disc phenotypes: An in-vitro, ex-vivo and in-silico approach.

Crump KB, Segarra-Queralt M, Bermudez Lekerika P, Geris L, Noailly J, Gantenbein B.

ESB Youngster Poster Award:

29th Congress of the European Society of Biomechanics, Edinburgh, UK, 30 June - 3 July, 2024.

Effects of compression and TNF on human cartilaginous endplate cells in 3D agarose culture.

Häckel S.

Travel Grant AO Spine – Global Spine Conference 2025, CHF 1'500

AO Spine – Global Spine Conference 2025, (Rio De Janeiro, Brasil), April 2025.

Reisestipendium.

Häckel, S, Gantenbein B, Zwingenberger S, Deml M.

Forschungsförderungspreis verliehen von der Deutschen Wirbelsäulenstiftung (DWG) anlässlich des 20. Deutschen Wirbelsäulenkongresses in Wiesbaden, 10-12 Dec 2025:

Biologisch induzierte Bandscheibenfusion mittels BMP-2, L51P und Prostaglandinrezeptor EP4-Modulation - Eine präklinische Proof-of-Concept-Studie.

Hess H, Gerber K, Gerber N.

CCMT Award for the best PhD thesis:

BME Day 2025, Master in Biomedical Engineering.

Three-dimensional Diagnosis for Rotator Cuff Tear using Deep Learning Algorithm.

### Drittmittel

Bastian JD

MLR Stiftung

Management of fragility fractures facilitated with in a holistic approach

CHF 422'674

2024-2026

Bastian JD

Berner Fachhochschule

Rehabio: Prävention & Rehabilitation von Fall Fracture/Sturzfrakturverletzungen in der alternden Schweizer Bevölkerung, Care@home Projekt Call

CHF 50'000

2025

Bastian JD  
Weiterbildungskommission Universität Bern  
Neuentwicklung des CAS-Studienganges «CAS-Alterstraumatologie und Orthogeriatric»  
CHF 25'000  
2025

Bastian JD, Ivanonva S  
Inselheim-Stiftung  
Rehabio: Förderung der Rekonvaleszenz in der Übergangspflege zur Wiedererlangung von  
Selbständigkeit nach operativer Behandlung einer Fragilitätsfraktur am Inselspital mittels innovativer  
digitaler Plattform  
CHF 300'000  
2026-2029

Deml MC  
Depuy-Synthes – Fellowship  
CHF 120'000  
2025-2026

Eggimann AK  
Age-Stiftung  
Geriatrische Rehabilitation – daheim, digital, selbstbestimmt (GRIMSEL)  
CHF 100'000 CHF  
2026-2028

Eggimann AK  
FILMED  
Reframing aging – an educational intervention on communication for future healthcare professionals  
CHF 40'000  
2025-2027

Gerber K, Schär M  
SNF  
The role of bone loss in recurrent anterior shoulder instability – three-dimensional image based analysis  
CHF 811'947  
2024–2028

Gerber K, Schär M, Zumstein M, Medacta  
Innosuisse  
3D Pre-Operative Planning based on MRI for Shoulder Arthroplasty  
CHF 552'567  
2024–2027

Gerber N, Bastian JD  
SNF  
Expanding acetabular fracture classification using 3D CT analysis and deep learning techniques  
CHF 613'610  
2024–2028

Gerber N, CustomSurg AG  
Innosuisse  
Automatic segmentation of complex bone fractures from CT images  
CHF 336'588  
2023–2025

Gewiess J, Aiyangar A, Albers CE  
AO Foundation – AO NPR – AO Trauma  
Dynamic Imaging of (In-) Stability of Type 2 Odontoid Fractures  
CHF 15'000  
2025-2026

Gewiess J, Aiyangar A, Albers CE  
Alfred und Anneliese Sutter-Stöttner Stiftung  
Dynamic Imaging of (In-) Stability of Type 2 Odontoid Fractures  
CHF 50'000  
2025-2027

Häckel S  
University of Bern, Bern, Schweiz, Mai 2025.  
Project Pool University Bern (Organisation 2nd Spine Fracture Workshop)  
Organisation 2nd Spine Fracture Workshop  
CHF 2'500

Häckel S  
Schweizerischer Nationalfonds (SNSF) – SPARK  
Implant Free Spinal Fusion for the Elderly – Improved Biologics using Synergistic Action of BMP-2 Analog  
L51P and Prostaglandin Receptor EP4 Modulation  
CHF 100'000  
2026–2027

Häckel, S, Gantenbein B, Zwingenberger S, Deml M  
Deutsche Wirbelsäulenstiftung  
Forschungsförderungspreis verliehen von der Deutschen Wirbelsäulenstiftung (DWG) anlässlich des 20.  
Deutschen Wirbelsäulenkongresses in Wiesbaden, 10-12 Dec 2025.  
Biologisch induzierte Bandscheibenfusion mittels BMP-2, L51P und Prostaglandinrezeptor EP4-  
Modulation - Eine präklinische Proof-of-Concept-Studie  
€ 15,000  
Feb 2026-Jan 2027

Hess H (supervisor Gerber K)  
UniBE Venture Fellowship 2025 grant  
Deep-learning based diagnosis for rotator cuff tear patients  
CHF 100'000  
2025 – 2026

Roshardt JA  
Swiss Orthopaedics  
The Perfect Pelvic Radiograph: An AI-Based Technique for Digital Reconstructive Radiography from 3D  
MRI with Automatic Landmark Detection and Correction for Pelvic Malorientation  
CHF 20'000.  
2025 -2026

Schaible SF, Steppacher SD, Tannast M  
Digitalisierungskommission der Universität Bern  
Digital Hip Preservation Surgery: Establishing an AI-Powered 3D Printing Platform to Improve Accuracy  
of Proximal Femoral Osteotomies  
CHF 20'000.–  
2025-2026

Schaible SF, Tannast M  
Stipendienfonds Swiss Orthopaedics  
A Novel, Cartilage-Seated 3D-Printed Guide for Accurate Open Acetabular Rim Trimming – A Cadaveric Feasibility and Validation Study  
CHF 20'000.–  
2025-2026

Schär M, Gerber K  
sitem-insel Support Fund (SISF)  
Dynamic Biplanar Radiographic analysis of anterior shoulder instability and the effect of physical therapy  
CHF 125'000  
2024-2026

Scheel-Sailer A, Bastian JD  
Stiftung für medizinische Weiterbehandlung, Prävention und Rehabilitation BRH  
Rehabio: Förderung der Rekonvaleszenz in der Übergangspflege & stationären Rehabilitation zur Wiedererlangung von Selbständigkeit und Prävention von Sekundärfällen nach operativer Behandlung einer Fragilitätsfraktur mittels innovativer digitaler Plattform  
CHF 272'000  
2026-2029

Wangler S  
Swissorthopedics  
Automated 3D Assessment of Fatty Infiltration in Rotator Cuff Tears: Predicting Surgical Repair Outcomes  
CHF 20'000  
2025-2026

Torabi Rahvar P, Gantenbein B  
Sutter Stöttner Foundation  
Biomimetic Microgel-Based Cell and Cell-free Delivery Systems for Regeneration of the Intervertebral Disc (MimeDisK)  
CHF 150,000  
2026-2028

## Originalarbeiten

Aregger FC, Gewiess J, Albers CE, Deml MC, Schaible S, Hoppe S, Tinner C: Evaluation of the true lateral fluoroscopic projection for the relation of the S1 recess/foramen to safe corridors in transiliac-transsacral screw placement in human cadaveric pelvis. *Eur J Orthop Surg Traumatol*. 2024 Nov 28;35(1):31. doi: 10.1007/s00590-024-04157-5. PMID: 39607619; PMCID: PMC11604772.

Benneker LM, Despotidis V, Wangler S, Keel MJB, Deml MC, Gewiess J, Albers CE: Anterior column reconstruction with mono-segmental fusion and lag screw fixation of sagittal split for burst-split fracture of the thoracolumbar spine. *Eur J Trauma Emerg Surg*. 2025 Nov 25;51(1):349. doi: 10.1007/s00068-025-03018-y. PMID: 41288731

Bermudez-Lekerika P, Gualdi F, Le Maitre CL, Piñero J, Oliva B, Gantenbein B: In-silico proteomic analysis of the role of IL-4 and IL-10 in IVD degeneration: Protein-protein interaction networks for candidate prioritisation. *Comput Struct Biotechnol J*. 2025 Apr 14;27:1600-1613. doi: 10.1016/j.csbj.2025.04.015. PMID: 40291541; PMCID: PMC12033940.

Bermudez-Lekerika P, Tseranidou S, Kanelis E, Nüesch A, Crump KB, Alexopoulos LG, Wuertz-Kozak K, Noailly J, Le Maitre CL, Gantenbein B: Ex Vivo and In Vitro Proteomic Approach to Elucidate the Relevance of IL-4 and IL-10 in Intervertebral Disc Pathophysiology. *JOR Spine*. 2025 Feb 10;8(1):e70048. doi: 10.1002/jsp2.70048. PMID: 39931581; PMCID: PMC11808320.

Bigdon SF, Vialle E, Dandurand C, Scherer J, Camino-Willhuber G, Joaquim AF, Chhabra HS, El-Sharkawi M, Bransford R, Fisher CG, Schnake KJ, Schroeder GD: AO KF Trauma and Infection Members. Streamlining the Journey of Research Into Clinical Practice: Making Your Patients and Practice Flourish Evaluation and Treatment of Pyogenic Spondylodiscitis of the Spine: AO Spine Knowledge Forum Trauma and Infection. *Global Spine J*. 2025 Apr;15(3):1490-1497. doi: 10.1177/21925682251316814. Epub 2025 Jan 24. PMID: 39852953; PMCID: PMC11760070.

Chen S, Bigdon SF, Häckel S, Li Z, Albers CE, Gantenbein B: Noggin expression in human nucleus pulposus cells: A comparative study of degenerative and traumatic intervertebral discs. *Advanced Orthopaedics*. 2025:55–62.

Chen S, Li Z, Bigdon SF, Häckel S, Albers CE, Gantenbein B: Therapeutic Approaches for Enhancing Spinal Fusion in Low Back Pain: A Review With a Focus on the Elderly. *JOR Spine*. 2025 Nov 12;8(4):e70136. doi: 10.1002/jsp2.70136. PMID: 41235064; PMCID: PMC12606028.

Crump KB, Chapallaz C, Alminnawi A, Bermudez-Lekerika P, Geris L, Noailly J, Gantenbein B: Exploring Mechanotransduction and Inflammation in Human Cartilaginous Endplate Cells in Blended Collagen-Agarose Hydrogels Under Cyclic Compression. *Gels*. 2025 Sep 12;11(9):736. doi: 10.3390/gels11090736. PMID: 41002510; PMCID: PMC12469522.

Crump KB, Kanelis E, Segarra-Queralt M, Pascuet-Fontanet A, Bermudez-Lekerika P, Alminnawi A, Geris L, Alexopoulos LG, Noailly J, Gantenbein B: TNF induces catabolism in human cartilaginous endplate cells in 3D agarose culture under dynamic compression. *Sci Rep*. 2025 May 6;15(1):15849. doi: 10.1038/s41598-025-00538-w. PMID: 40328789; PMCID: PMC12056083.

Eberlein SC, Hess S, Schaible SF, Klenke FM, Hecker A: ACL tunnel placement using 3D printed surgical guides - a porcine feasibility study. *3D Print Med*. 2025 Feb 19;11(1):6. doi: 10.1186/s41205-024-00215-0. PMID: 39969672; PMCID: PMC11837315.

Eberlein SC, Schaible SF, Klenke FM, Hecker A: High-Accuracy reduction of comminuted diaphyseal femur fractures using on-site 3-D-printed guides. *Eur J Trauma Emerg Surg*. 2025 Sep 23;51(1):295. doi: 10.1007/s00068-025-02970-z. PMID: 40986085; PMCID: PMC12457565.

Egger V, Mittlmeier AS, Canal C, Neuhaus V: In-hospital outcome after trochanteric femur fractures is related to preoperative delay but not to the time of day of the procedure: a nationwide retrospective cohort study of 7184 patients. *Eur J Trauma Emerg Surg.* 2025 Nov 14;51(1):341. doi: 10.1007/s00068-025-03012-4. PMID: 41238820; PMCID: PMC12618339.

Eggimann AK, de Godoi Rezende Costa Molino C, Freystaetter G, Vellas B, Kanis JA, Rizzoli R, Kressig RW, Armbrecht G, Da Silva JAP, Dawson-Hughes B, Lang W, Gagesch M, Egli A, Bischoff-Ferrari HA: Effect of vitamin D, omega-3 supplementation, or a home exercise program on muscle mass and sarcopenia: DO-HEALTH trial. *J Am Geriatr Soc.* 2025 Apr;73(4):1049-1059. doi: 10.1111/jgs.19266. Epub 2024 Nov 20. PMID: 39565152; PMCID: PMC11970227.

Franken V, Blümel S, Schwab JM, Tannast M: Can surface landmarks help us identify the gibson interval during surgical hip dislocation: a study of 617 hips. *Arch Orthop Trauma Surg.* 2024 Dec 18;145(1):67. doi: 10.1007/s00402-024-05622-w

Gewiess J, D'Intino A, Santos A, Alini M, Vernengo A: Proteolytic Enzyme Models as Tunable Preclinical Platforms for Investigating Intervertebral Disc Degeneration. *Front. Cell Dev. Biol.* 2025 Nov 27. doi: 10.3389/fcell.2025.1683282

Gewiess J, Roth YE, Heini P, Benneker LM, Albers CE: Transiliac-Transsacral Screw Fixation is Superior to Lumbopelvic Stabilization in the Treatment of Minimally Displaced Sacral H-/U-Type Fragility Fractures. *Global Spine J.* 2025 May;15(4):1939-1949. doi: 10.1177/21925682241268141. Epub 2024 Jul 26. PMID: 39058691; PMCID: PMC11572038.

Gewiess J, Vögelin E, Kasparkova K, Keel MJB, Egli RJ, Deml MC, Albers CE: Surgical management of symptomatic retroperitoneal migratory disc herniation anterior to the sacral ala causing L5 radiculopathy using direct decompression and fusion: illustrative case. *J Neurosurg Case Lessons.* 2025 Apr 21;9(16):CASE24866. doi: 10.3171/CASE24866. PMID: 40258336; PMCID: PMC12013377.

Häckel S, Gaff J, Celenza A, Cunningham G, Kern M, Taylor P, Miles A: High Fusion Rates with Structured Titanium TLIF Cages: A Retrospective 1-Year Study with and Without Adjacent Level Dynamic Stabilization. *Surgeries.* 2025;6(3):52.

Hanauer, M, Heimann, A.F, Kricka, P, Blümel, S, Marti, D, Moosmann, A.M, Popa, V, Zurmühle, C.A, Schwab, J.M, Tannast, M: The PENG Block in Elective Primary Anterior Total Hip Arthroplasty Is Associated with Reduced Length of Stay: A Multidisciplinary Prospective Randomized Double-Blinded Controlled Trial. *Randomized Controlled Trial J Bone Joint Surg Am* 2025 Apr 16;107(8):805-810. doi: 10.2106/JBJS.24.00825. Epub 2025 Feb 28.

Hecht V, Mosimann ES, Krause F, Kurze C, Lustenberger T, Anwander H: The medial clearspace is a risk factor for secondary dislocation following cast immobilization after closed reduction in closed ankle fracture dislocations. *Eur J Trauma Emerg Surg.* 2025 Apr 3;51(1):161. doi: 10.1007/s00068-025-02803-z. PMID: 40178690; PMCID: PMC11968475.

Heimann, A.F, Wagner, M, Vavron, P, Brunner, A, Lerch, T.D, Schmaranzer, E, Schwab, J.M, Steppacher, S.D, Tannast, M, Sutter, R, Schmaranzer, F: Ischiofemoral impingement in joint preserving hip surgery: prevalence and imaging predictors. 2025 Apr 4;16(1):78. doi: 10.1186/s13244-025-01946-2.

Henle P, van Rooij F, Agu C, Egli S: Anterior cruciate ligament repair using dynamic intraligamentary stabilization grants 88.5% survival at minimum follow-up of 5 years. *Knee Surg Sports Traumatol Arthrosc.* 2025 Mar;33(3):846-855. doi: 10.1002/ksa.12417. Epub 2024 Aug 20. PMID: 39162350.

Hess H, Gussarow P, Rojas JT, Zumstein MA, Gerber K: Automatic 3-dimensional analysis of posterosuperior full-thickness rotator cuff tear size on magnetic resonance imaging. *J Shoulder Elbow Surg.* 2025 Jun;34(6):e309-e316. doi: 10.1016/j.jse.2024.09.041. Epub 2024 Dec 2. PMID: 39631559.

Hess H, Oswald A, Rojas JT, Lädermann A, Zumstein MA, Gerber K: Deep learning algorithms enable MRI-based scapular morphology analysis with values comparable to CT-based assessments. *Sci Rep.* 2025 Jan 10;15(1):1591. doi: 10.1038/s41598-024-84107-7. PMID: 39794358; PMCID: PMC11724003.

Holtmann JA, Kipfer B, Lehmann B, Galanis M, Hautz W, Exadaktylos A: Iatrogenic STEMI in a male trauma patient due to coronary artery compression by a left sided chest tube. *Am J Emerg Med.* 2025 Apr;90:253.e5-253.e6. doi: 10.1016/j.ajem.2025.01.040. Epub 2025 Jan 19. PMID: 39909802.

Holtmann JA: Response to: "Chest tubes and cardiac complications: Time to reevaluate placement strategies". *Am J Emerg Med.* 2025 Jul;93:227. doi: 10.1016/j.ajem.2025.03.042. Epub 2025 Mar 24. PMID: 40169332.

Hunziker EB, Nishii N, Shintani N, Lippuner K, Keel MJB, Voegelin E: The chondrogenic potential of the bovine tendon sheath-a novel source of stem cells for cartilage repair. *Stem Cells.* 2025 Feb 12;43(2):sxae071. doi: 10.1093/stmcls/sxae071. PMID: 39656905.

Ivanova S, Chantzara A, Egli RJ, Keel MJ, Bastian JD: The «gull sign» in acetabular fractures revisited: is it predictive for failure after osteosynthesis in older adults? *Injury.* 2025 Dec 11;57(2):112971. doi: 10.1016/j.injury.2025.112971. Epub ahead of print. PMID: 41406758.

Ivanova S, Hilverdink EF, Bastian JD, Jakob DA, Exadaktylos AK, Keel MJB, Schefold JC, Anwander H, Lustenberger T: Short- and Long-Term Mortality in Severely Injured Older Trauma Patients: A Retrospective Analysis. *J Clin Med.* 2025 Mar 18;14(6):2064. doi: 10.3390/jcm14062064. PMID: 40142872; PMCID: PMC11942779.

Ivanova S, Prochazka O, Giannoudis PV, Tosounidis T, Tannast M, Bastian JD: Rehabilitation Protocols for Surgically Treated Acetabular Fractures in Older Adults: Current Practices and Outcomes. *J Clin Med.* 2025 Jul 10;14(14):4912. doi: 10.3390/jcm14144912. PMID: 40725604; PMCID: PMC12294826.

Ivanova S, Rosenstock P, Leibold CS, Vuillemin N, Keel MJ, Egli RJ, Bastian JD: The "gull sign" in acetabular fractures revisited - is the dome impacted or elevated? *Injury.* 2025 Aug;56(8):112459. doi: 10.1016/j.injury.2025.112459. Epub 2025 May 27. PMID: 40466585.

Kuijpers D, Forst J, Podgurski A, Fujak A: Komplikationen nach dynamischer In-situ-Fixierung des Femurkopfes bei Patienten mit Epiphyseolysis capitis femoris [Complications after dynamic in-situ fixation of the femoral head in patients with slipped capital femoral epiphysis]. *Orthopädie (Heidelberg).* 2026 Jan;55(1):55-60. German. doi: 10.1007/s00132-025-04721-9. Epub 2025 Sep 12. PMID: 40938442.

Leibold CS, Hecker A, Schmaranzer F, Siebenrock KA: Bone wax can lead to foreign body reaction and local osteolysis after open femoroacetabular impingement (FAI) surgery. *Arch Orthop Trauma Surg.* 2025 Apr 5;145(1):224. doi: 10.1007/s00402-025-05821-z. PMID: 40186677; PMCID: PMC11972202.

Marti D, Petitat F, Heimann AF, Popa V, Gautier E, Hanauer M, Hirt J, Schwab JM, Tannast M: The Burch-Schneider Reinforcement Ring : 200 cases over a 40-year period with a mean follow-up of 11 years. *Bone Joint J.* 2025 Jun 1;107-B(6 Supple B):23-30. doi: 10.1302/0301-620X.107B6.BJJ-2024-1106.R1. PMID: 40449546.

Meier MK, Helfenstein RA, Boschung A, Nanavati A, Ruckli A, Lerch TD, Gerber N, Jung B, Afacan O, Tannast M, Siebenrock KA, Steppacher SD, Schmaranzer F: A deep learning approach for automatic 3D segmentation of hip cartilage and labrum from direct hip MR arthrography. *Sci Rep.* 2025 Feb 7;15(1):4662. doi: 10.1038/s41598-025-86727-z. PMID: 39920175; PMCID: PMC11805980.

Meier MK, Roshardt JA, Ruckli AC, Gerber N, Lerch TD, Jung B, Tannast M, Schmaranzer F, Steppacher SD: Contribution of Labrum and Cartilage to Joint Surface in Different Hip Deformities: An Automatic Deep Learning-Based 3-Dimensional Magnetic Resonance Imaging Analysis. *Am J Sports Med.* 2025 Jul;53(8):1860-1868. doi: 10.1177/03635465251339758. Epub 2025 Jun 7. PMID: 40481726.

Menze J, Croci E, Andersen MS, Hess H, Lund ME, De Pieri E, Zumstein MA, Ferguson SJ, Müller AM, Mündermann A, Gerber K: Advancing musculoskeletal shoulder modeling: reflecting glenohumeral translation with bony, ligamentous, and muscular stability constraints. *Front Bioeng Biotechnol.* 2025 Mar 27;13:1441530. doi: 10.3389/fbioe.2025.1441530. PMID: 40213640; PMCID: PMC11983330.

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Chen S, Tian X, Zwingenberger S, Albers CE, Gantenbein B, Häckel S: Improved Intervertebral Disc Fusion with Biologics: The prostaglandin E2 receptor 4 agonist KMN159 acts synergistically with BMP2 and L51P to induce osteogenic differentiation of human annulus fibrosus cells. 33rd Annual Meeting of the European Orthopaedic Research Society: AO Orthopaedic Research Summit 2025, Davos, 16-19 June, 2025.

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Corr F, Stengel FC, Hastings J, Grimm D, Albrecht C, Joerger A, Albrecht A, Häckel S, Störrle P, Lupi V: Machine Learning–Based Prediction of In-Hospital Mortality in Spondylodiscitis: A Multicenter Retrospective Analysis. SGS Annual Meeting 2025, Basel, Schweiz, 04.–05.09.2025.

Crump KB, Chappallaz C, Alminnawi A, Segarra-Queralt M, Bermudez-Lekerika P, Geris L, Noailly J, Gantenbein B: Poster TERMIS25\_1015 - Dynamically compressed collagen-agarose hydrogels for 3D culture of human cartilaginous endplate cells. Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting, Freiburg im Breisgau, Germany, 19-23 May, 2025.

Dirnberger RD, Ruckli AC, Hess H, Zamboni L, Bau I, Zumbunn T, Hess S, Liechti EF, Gerber N: Automatic segmentation of tibial fracture fragments for preoperative reduction planning. Swiss Orthopaedics Kongress 2025, Zürich, Schweiz, 25–27.06.2025.

Egger V, Mittlmeier AS, Canal C, Neuhaus V: Trochanteric Femur Fractures: Timely Surgery Matters. 7th Swiss Orthogeriatrics Day, Zürich, Switzerland, 17.09.2025.

Eggimann AK. Alter(n) neu sehen - Reframing aging. Nacht der Forschung 2025, Universität Bern, Schweiz.

Eggimann AK. Dein Muskel Check – von der Kraft bis zur Form. Nacht der Forschung 2025, Universität Bern, Schweiz

Gantenbein B: Invited Keynote: Developing Patient-Specific Therapy for the Intervertebral Disc – When to Regenerate and when to Fuse? 33rd Annual Meeting of the European Orthopaedic Research Society: AO Orthopaedic Research Summit 2025 - Intervertebral disc across lab cultures, animals, humans and computers, Davos, 16-19 June, 2025.

Hecht V, Mosimann E, Krause F, Kurze C, Lustenberger T, Anwander H: The medial clearspace is a risk factor for secondary dislocation following cast immobilization after closed reduction in ankle fracture dislocations. 24th European Congress of Trauma and Emergency Surgery, Aachen, Deutschland, 15.04.2025

Hecht V, Mosimann ES, Krause F, Kurze C, Lustenberger T, Anwander H: The medial clearspace is a risk factor for secondary dislocation following cast immobilization after closed reduction in closed ankle fracture dislocations. D.A.F Kongress, Mai 08.-10., 2025

Ivanova S, Bastian JD: Wenn das Becken und die Hüfte brechen: Moderne Wege zurück zur Bewegung, Nacht der Forschung, Bern, Schweiz, 06.09.2025

Ivanova S, Schaefer R, Keel MJB, Egli R, Bonel H, Bastian JD: The Pararectus approach in the treatment of acetabular fractures – is it learnable? EFORT, Lion, Frankreich, 11.06.2025

Kumar A, van Leemput S, Fernandes Marques SF, Torabi Rahvar P, Wöltje M, Gantenbein B: Poster Presentation: The Role of GDF5 in Enhancing Cell Survival on Silk Scaffolds for Intervertebral Disc Regeneration. 33rd Annual Meeting of the European Orthopaedic Research Society: AO Orthopaedic Research Summit 2025, Davos, 16-19 June, 2025.

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Roshardt JA, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: Revising the coxa profunda sign reveals no association with acetabular deformities or 3D lunate surface area. EFORT Congress 2025, Lyon, Frankreich, 13.06.2025

Roshardt JA, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher S, Schmaranzer F: Revising The Coxa Profunda Sign Reveals No Association With Acetabular Deformities Or 3D Lunate Surface Area. 85. Jahreskongress swiss orthopaedics 2025, Zürich, Schweiz, 26.06.2025

Roshardt JA, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher S, Schmaranzer F: AI-Powered Automatic 3D Segmentation Of Hip Labrum And Cartilage From Non-Contrast Hip MRI. 85. Jahreskongress swiss orthopaedics 2025, Zürich, Schweiz, 26.06.2025

Roshardt JA, Meier MK, Lerch T, Tannast M, Hoch A, Sommer S, Sutter R, Schmaranzer F: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. GCB Symposium, Bern, Schweiz, 26.06.2025

Roshardt JA, Meier MK, Lerch T, Tannast M, Hoch A, Sommer S, Sutter R, Schmaranzer F: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. 16th EHS Congress, Thessaloniki, Griechenland, 15.–17.10.2025

Roshardt JA, Schroeter-Sakslund P, Meier MK, Lerch T, Tannast M, Steppacher S, Schmaranzer F: Differences In Femoral Torsion Measurements Across Four Methods In Asymptomatic Volunteers Compared To Symptomatic Patients. 85. Jahreskongress swiss orthopaedics 2025, Zürich, Schweiz, 26.06.2025

Rothenfluh E, Erbach GF, Frauchiger DA, Egli RJ: High-Resolution Peripheral Quantitative Computed Tomography (HR-pQCT) for Assessment of Avascular Necrosis of the Lunate. Jahreskongress Federation of European Societies for Surgery of the Hand (FESSH) 2025, Helsinki, Finnland, 25. - 28.06.2025

Schaible SF, Bieri Y, Gewiess J, Deml MC. Radiographic and Clinical Outcomes of a 3D-Printed Mesh Polyamide Brace for Adolescent Idiopathic Scoliosis: A Retrospective Study. 85. Jahreskongress der Swiss Orthopaedics, Zurich, Switzerland, June 25-27, 2025.

Schlagenhof L, Raffaele C, Zivko C, Luciani P, Hashemi Gheinani A, Gantenbein B: Poster Presentation: A Comparison of Bovine Adipose-Derived Mesenchymal Stromal Cells With Nucleus Pulposus Progenitor Cells: Exploring Extracellular Vesicle Therapy for Intervertebral Disk Regeneration. 33rd Annual Meeting of the European Orthopaedic Research Society: AO Orthopaedic Research Summit 2025, Davos, 16-19 June, 2025.

Tseranidou S, Gualdi F, Bermudez-Lekerika P, Kanelis E, Gantenbein B, Alexopoulos LG, Le Maitre CL, Piñero J, Noailly J: Poster Presentation: Enhancing Protein Interaction Networks in IVDD Using Machine Learning Link Prediction. 33rd Annual Meeting of the European Orthopaedic Research Society: AO Orthopaedic Research Summit 2025, Davos, 16-19 June, 2025.

Veenstra A, Arni A, Bigdon SF, Albers CE, Deml MC, Häckel S: Geschlechtsspezifische Unterschiede bei traumatischen Wirbelsäulenverletzungen: Epidemiologie, Knochenqualität und Behandlung – 10-Jahres-Kohortenstudie. 20. Jahrestagung der Deutschen Wirbelsäulengesellschaft (DWG) / Deutscher Wirbelsäulenkongress 2025, Wiesbaden, Deutschland, 10.–12.12.2025

Veenstra A, Arni A, von Gernler M, Babic A, Milavec H, Albers CE, Deml MC, Häckel S: Sex Differences in Epidemiology, Treatment, and Outcomes of Traumatic Spinal Fractures: A Retrospective Cohort Study and Scoping Review. Global Spine Congress 2025, Rio de Janeiro, Brasilien, 28.–31.05.2025.

Veenstra A, von Gernler M, Babic A, Milavec H, Wiesner C, Albers CE, Deml MC, Häckel S: Sex Differences in Traumatic Thoracic and Lumbar Spine Fractures – A Rapid Scoping Review. 85. Jahreskongress swiss orthopaedics 2025, Zürich-Oerlikon, Schweiz, 25.–27.06.2025.

Warnke P, Hurni P, Schaible S, Pohle F, Häckel S, Deml MC: Long-term Surgical and Radiological Outcomes Following Posterior Carbon Fiber/PEEK Instrumentation for Thoracolumbar Spinal Metastases: A Retrospective Cohort Analysis of 66 Cases. SGS Annual Meeting 2025, Basel, Schweiz, 04.–05.09.2025.

Warnke P, Hurni P, Schaible S, Pohle F, Häckel S, Deml MC: Mittelfristige Ergebnisse von Carbonfaser/PEEK- gegenüber Titan-Instrumentierung bei thorakolumbalen Metastasen: Eine vergleichende Analyse von Fixation und Fusion. 20. Jahrestagung der Deutschen Wirbelsäulengesellschaft (DWG) / Deutscher Wirbelsäulenkongress 2025, Wiesbaden, Deutschland, 10.–12.12.2025.

## Vorträge

Alonso Domenech B: AI-Powered 3D MRI Biochemical Analysis of Acetabular Cartilage Composition in Hip Dysplasia and Protrusio Using Volumetric dGEMRIC. Swiss Orthopaedics, Zürich, Schweiz, June 25-27 2025

Alonso Domenech B: AI-Powered 3D MRI Biochemical Analysis of Acetabular Cartilage Composition in Hip Dysplasia and Protrusio Using Volumetric dGEMRIC. SÉCOT, Madrid, Spain, September 1-3 2025

Alonso Domenech B: AI-Powered 3D MRI Biochemical Analysis of Acetabular Cartilage Composition in Hip Dysplasia and Protrusio Using Volumetric dGEMRIC. DKOU, Berlin, Deutschland, September 28-31 2025

Alonso Domenech B: Differences in Femoral Torsion Measurements Across Four Methods in Asymptomatic Volunteers Compared to Symptomatic Patients. EFFORT, Lyon, France, June 11-13 2025

Alonso Domenech B: Differences in Femoral Torsion Measurements Across Four Methods in Asymptomatic Volunteers Compared to Symptomatic Patients. DKOU, Berlin, Deutschland, September 28-31 2025

Anwander H: Ankle at risk: The challenge of syndesmosis injuries, SFAS, Zürich, 2025

Anwander H: Die Ein-Jahres-Mortalität korreliert mit der Frakturlokalisation bei geriatrischen Patienten nach einem Trauma der unteren Extremitäten, DKOU, Berlin, 2025

Anwander H: Die operative Therapie der Fibulafraktur, BGO Wetlab, Bern, 2025

Anwander H: DKOU, Einfluss einer hüftgelenkserhaltenden Operation auf sexuelle Aktivität und Zufriedenheit bei Patienten mit Hüftpathologien, Berlin, 2025

Anwander H: Therapieentschied bei Sprunggelenkfrakturen: Was sagt die Evidenz?, DKOU, Berlin, 2025

Bastian JD: "Moderne" Zugangswege Acetabulum: Pararectus, 23. AO Trauma Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie (mit praktischen Übungen), Homburg/Saar, Deutschland, 02.-04.07.2025

Bastian JD: Acetabulum Fracture, AO Trauma Symposium @13th Fragility Fracture Network 2025, Porto, Portugal, 3.10.2025

Bastian JD: Atypical fractures – Education Session 1, 13th Fragility Fracture Network 2025, Porto, Portugal, 1.-4.10.2025

Bastian JD: Chirurgische Hüftluxation, 1. Salzbuger Beckenkurs der OTC Austria, Salzburg, Österreich, 06.-07.04.2025

Bastian JD: Impact of surgical approach and stem selection for surgical outcome – case based warm up, Meet the Experts Session in Revision of the Femoral component; 16th Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Bastian JD: Periarticular fractures after THA, Swiss Pelvic & Acetabular Course, Zürich, Schweiz, 17.-18. Januar

Bastian JD: Periprosthetic Acetabular Fractures – Classification and Management options; Fragility Fracture Network Webinar on periprosthetic fragility trauma webinar, 6.11.2025 online

Bastian JD: Periprosthetic Femur Fractures at the Hip Joint – Treatment concepts and Hands On, Spezialsession Fragility Fracture Network, Workshop 3, 85. Jahreskongress Swiss Orthopaedics 2025, Zürich, Schweiz, 25.06.2025

Bastian JD: Periprosthetische Azetabulumfrakturen, 7th Orthogeriatrics Day in Zürich, USZ, 17.09.2025

Bastian JD: Principles of acetabular fracture management, Advanced Principles of Fracture Management, AO Trauma Course, Davos, Switzerland, 8.-11.2025

Bastian JD: Surgical treatment of anterior pelvic ring injuries, 11th European Pelvic Course, Amsterdam, Netherlands, 08.-10.05.2025

Bastian JD: Trochanteric flip and hip dislocation, Swiss Pelvic & Acetabular Course, Zürich, Schweiz, 17.-18. Januar

Bastian JD: Versorgungskonzepte proximale Femurfrakturen, Fragility Fracture Network Switzerland, Inselspital, Bern, 14.11.2025

Bastian JD: Versorgungsstrategien bei proximalen Femurfrakturen, Schulthess Clinic Academy 2025, Hip, Zürich, Schweiz, 28.-29.08.2025

Chen S, Tian X, Zwingenberger S, Albers CE, Gantenbein B, Häckel S: Podium TERMIS25\_355 - Promoting Intervertebral Disc Fusion: The prostaglandin E2 receptor 4 agonist KMN159 acts synergistically with BMP2 and L51P to induce osteogenic differentiation of human annulus fibrosus cells. Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting, Freiburg im Breisgau, Germany, 19-23 May, 2025.

Chen S: Förderung der Bandscheibenfusion – die synergistische Wirkung von BMP2, L51P und dem EP4-Agonisten KMN159 auf die Osteoinduktion humaner Annulus-fibrosus-Zellen in vitro. Deutscher Wirbelsäulenkongress (DWG) 2025, Wiesbaden, Deutschland, Dezember 10–12, 2025.

Deml M: Endoscopy in Spine Surgery, Toulouse – Spine Meeting France, 11/2025

Eggimann AK: Altersmedizin und Orthopädie = Altersorthopädie. Weiterbildung Orthopädie, 26. Mai 2025. Inselspital Bern.

Eggimann AK: Die Bedeutung der Muskulatur im Alter. Weiterbildungscurriculum Geriatrie, Universität Zürich, 4. September 2025, Waidspital, Zürich, Schweiz.

Eggimann AK: Frailty DD Sarkopenie im Alter. Curriculum Allgemeine Innere Medizin, Inselspital, Bern, Schweiz

Eggimann AK: Geriatric research and experiences. Kongress SFGG, 4. April 2025, Bern, Schweiz.

Eggimann AK: Sarkopenie – Diagnose und Pocus. Weiterbildungscurriculum Geriatrie Kantonsspital Baselland, 11. September 2025, Bruderholz, Schweiz.

Eggimann AK: Sarkopenie. PraxisUpdateBern – Curriculum für Hausarztmedizin. 30. Oktober 2025, Bern, Schweiz.

Gantenbein B: Invited Lecture: "Therapeutic Drugs for Improved Spinal Fusion in the Elderly". CABMM Scientific Seminar Series: "New Approaches to Intervertebral Bony Fusion in Veterinary Medicine", 3 April 2025, Zürich, 2025.

Gantenbein B: Invited Talk: Rückenschmerzen und die Gesundheit der Wirbelsäule in einer alternden Bevölkerung - Sind Stammzellen der Schlüssel? Bern Event Forum, 19. interdisziplinäres Symposium 13.11.2025 "Kontraste", Bern, 2025.

Häckel S: Evidence-Based Choices in Spine Trauma: Lessons from a Randomized Trial. GHS Symposium 2025 (17th Symposium Graduate School for Health Sciences), Gerzensee, Schweiz, November 26–27, 2025.

Häckel S: Mentoring-Programme für MedizinerInnen. Mitgliederversammlung VSAO, Bern, Schweiz, April 24, 2025.

Häckel S: Osteolyse nach zervikaler Bandscheibenprothese: Der Fall der M6-C – Prävalenz, Risikofaktoren und Validierung einer neuen CT-basierten Bewertungsskala. Deutscher Wirbelsäulenkongress (DWG) 2025, Wiesbaden, Deutschland, Dezember 10–12, 2025.

Häckel S: Osteolysis After Cervical Disc Arthroplasty: Prevalence, Risk Factors, and Validation of a Novel CT-Based Grading Scale. SGS Annual Meeting 2025, Basel, Schweiz, September 4–5, 2025.

Häckel S: Promoting Intervertebral Disc Fusion: Synergistic Osteogenic Induction of Human Annulus Fibrosus Cells Using BMP2, L51P, and the EP4 Agonist KMN159. SGS Annual Meeting 2025, Basel, Schweiz, September 4–5, 2025.

Häckel S: Sex-related design aspects in biomaterials research and applications – Why Sex Matters in Surgery: Clinical Perspectives for Biomaterial Design and Application. ESB 2025 (34th Annual Conference of the European Society for Biomaterials), Torino, Italien, September 7–11, 2025.

Häckel S: Update Bandscheibenfusion – Osteoinduktion als Schlüssel zur nicht-invasiven Fusion. Spine Science Symposium 2025, Frankfurt am Main, Deutschland, Mai 15–16, 2025.

Hecht V, Mosimann E, Krause F, Kurze C, Lustenberger T, Anwander H: The medial clearspace is a risk factor for secondary dislocation following cast immobilization after closed reduction in closed ankle fracture dislocations, DAF, 2025

Holtmann JA. Strengthening Health Services Through Local Partnerships in Syria and Nepal. 7th Swiss Symposium on Refugee and Migrant Health, 09/2025 Bern, Switzerland

Ivanova S. Rehabilitation Protocols for Surgically Treated Acetabular Fractures in Older Adults: Current Practices and Outcomes. EHS, Tessaloniki, Griechenland, 17.10.2025

Ivanova S. The "gull sign" in acetabular fractures revisited - is the dome impacted or elevated? EHS, Tessaloniki, Griechenland, 17.10.2025

Kumar A, van Leemput S, Fernandes Marques SF, Torabi Rahvar P, Wöltje M, Gantenbein B: The Cyto-Compatibility of Biomimetic Bombyx mori Silk and Growth and Differentiation Factor 5 (GDF5). 11th Swiss Bone Mineral Society School: Exploring Bone Biology & Beyond, Interlaken, Switzerland, 12-13 June, 2025.

Liechti EF: Hip Flexion Influences Cross-Section–Based Measurement of Femoral Torsion: A Three-Dimensional Comparative Analysis of the Murphy and Waidelich Methods. 42. AGA-Kongress, Hamburg, Germany, September 11th – 13th, 2025

Lustenberger T, Zingg T: The ten most important ACS papers in 2024. 14th Swiss Trauma & Acute Care Surgery Days 2025, Bern, Schweiz, 13.03.2025

Lustenberger T: Fractures around the knee – Retrograde nailing, plating or direct prosthesis? 24th European Congress of Trauma and Emergency Surgery, Aachen, Deutschland, 15.04.2025

Lustenberger T: Indications for Hindfoot Nailing in the Orthogeriatric Patient. 7th Swiss Orthogeriatric Day, Zürich, Schweiz, 17.09.2025

Lustenberger T: Interactive Case Discussion Polytrauma, 28. Bieler Fortbildungstage, Biel, Schweiz, 30.10.2025

Lustenberger T: Polytrauma im Trauma-Zentrum. 3. Aargauer Intensivmedizin Symposium, Gränichen, Schloss Liebegg, 13.05.2025

Moser HL, S Wangler, A Guetg, T Schmocker, N Renz, M Schär: Management of periprosthetic infection after shoulder arthroplasty: A retrospective cohort study. 42. AGA Kongress Hamburg

Roshardt JA: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. EFORT Congress 2025, Lyon, Frankreich, 11.06.2025

Roshardt JA: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. 85. Jahreskongress swiss orthopaedics, Zürich, Schweiz, 26.06.2025

Roshardt JA: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. 16th EHS Congress, Thessaloniki, Griechenland, 17.10.2025

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Roshardt JA: Differences in femoral torsion measurements across four methods in asymptomatic volunteers compared to symptomatic patients. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA: Differences in femoral torsion measurements across four methods in asymptomatic volunteers compared to symptomatic patients. EFORT Congress 2025, Lyon, Frankreich, 13.06.2025

Roshardt JA: Femoral head decentration on hip MRA: A key marker for hip instability in young patients with hip pain. EFORT Congress 2025, Lyon, Frankreich, 13.06.2025

Roshardt JA: Radiografías virtuales de la pelvis basadas en resonancia magnética 3D para la evaluación de la cobertura y versión acetabular: un estudio de viabilidad en pacientes jóvenes evaluados para cirugía de preservación de cadera. 62º Congreso SECOT 2025, Madrid, Spanien, 01.10.2025

Roshardt JA: Reevaluando el signo de coxa profunda: no existe asociación con deformidades acetabulares o con el área 3D de las facies lunata. 62º Congreso SECOT 2025, Madrid, Spanien, 01.10.2025

Roshardt JA: Revising the coxa profunda sign reveals no association with acetabular deformities or 3D lunate surface area. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA: Revising the coxa profunda sign reveals no association with acetabular deformities or 3D lunate surface area. 16th EHS Congress, Thessaloniki, Griechenland, 17.10.2025

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E. Impact of Hip Flexion on CT-Based Femoral Torsion Measurements: A Three-Dimensional Comparative Analysis. 85. Jahreskongress der Swiss Orthopaedics, Zurich, Switzerland, June 25-27, 2025.

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E: Hip Flexion Alters CT-Based Femoral Torsion Measurement: 3-D Comparison of Murphy Versus Waidelich Methods. 16th Congress of the European Hip Society, Thessaloniki, Greece, October 17-18, 2025.

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E: Hip Flexion Influences Cross-Section-Based Measurement of Femoral Torsion: A Three-Dimensional Comparative Analysis of the Murphy and Waidelich Methods. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, Germany, October 28-31, 2025.

Schlagenhof L, Raffaèle CI, Zivko C, Hashemi Geihnani A, Gantenbein B: Isolation and Characterization of Extracellular Vesicles from bovine Tie2+ and Tie2- Nucleus Pulposus Cells. Oral Presentation TERMIS-EU Chapter Meeting, Freiburg i. Breisgau, Germany 20-23 May, 2025.

Schlagenhof L, Raffaele CI, Zivko C, Hashemi Gheinani A, Gantenbein B: Podium TERMIS25\_1467 - Isolation and Characterization of Extracellular Vesicles from bovine Tie2+ and Tie2- Nucleus Pulposus Cells. Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting, Freiburg im Breisgau, Germany, 19-23 May, 2025.

Stirnemann A, Fabian Ille, Gantenbein B, Schlagenhof L: Podium TERMIS25\_1085 - Comparative Transcriptomics of Tie2-Positive Progenitor Cells in the Nucleus Pulposus. Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting, Freiburg im Breisgau, Germany, 19-23 May, 2025.

Tannast M: Arthroplasty in the Young Adult, Practical Course Orthopaedics, Toulouse Frankreich, 05 21-23 2025, Faculty

Tannast M: Automated animated 3D MRI hip motion analysis (of native & / or replaced hip). 16th Congress of the European Hip Society Thessaloniki Griechenland 10 16-17 2025

Tannast M: Case 2: Dual mobility cups. AO Kurs Recon Genf Schweiz, 08 28-29 2025, Faculty

Tannast M: case-based discussion – Classificationen and treatment of acetabular fractures. 11. European Pelvic Course. Amsterdam, Niederlande, 05 08-10 2025

Tannast M: Die Zukunft der PAO. Medacta DACH Hüftmeeting Wien Österreich 11 13 2025 Faculty

Tannast M: FAI, Dysplasia, Extra-articular Pathology, Practical Course Orthopaedics, Toulouse Frankreich, 05 21-23 2025, Faculty

Tannast M: FAI: past, present and future, International Hip Surgery Course, Chile Südamerika, 05 29-30 2025

Tannast M: femoroacetabular Impingement. ESSKA-EHPA Meeting, Cambridge England, 04 24-25 2025

Tannast M: Hip. 85. Jahreskongress Zürich Schweiz, 06 25-27 2025

Tannast M: How to access the hip joint – Surgical hip dislocation. M.O.R.E. Excellence Young Surgeon Path, Medacta, Bern, 31.03.2025.

Tannast M: Interaktive Fallbeispiele. 16. Pflegekongress für Chirurgen, Luzern Schweiz, 05 07 2025

Tannast M: L'esperienza nella chirurgia conservativa in traumatologia dell'acetabolo. A.I.P. Congresso Nazionale Torino Italien 10 23-24 2025 Faculty

Tannast M: La lussazione chirurgica dell'anca: Tips&Tricks. A.I.P. Congresso Nazionale Torino Italien 10 23-24 2025 Faculty

Tannast M: Long term results after Bernese Periacetabular Ostetotomy, International Hip Symposium Peking China 09 13-15 2025

Tannast M: operative rechnique and clinical outcome of Burch-Schneider cage. 55th Annual Meeting of the Japanese Society for Replacement Arthroplasty, Nagoya Japan, 02 22 2025

Tannast M: Pararectus Approach Indications and technique. P&A Cadaveric course Cambridge, UK, 03 17-18 2025

Tannast M: Pararectus approach. 11. European Pelvic Course. Amsterdam, Niederlande, 05 08-10 2025

Tannast M: Pathomechanisms of the hip: how labral tears occur. International Hip Symposium Peking China 09 13-15 2025

Tannast M: PE-A8 Unmet Clinical Needs. PEEG Meeting, Philadelphia, USA, 04 10 2025

Tannast M: Pelvic discontinuity. AO Kurs Recon Genf Schweiz, 08 28-29 2025, Faculty

Tannast M: Plaatten und Schrauben Design. AO Trauma Studierenden Kurs – Young academy Switzerland, Bern 09 04 2025

Tannast M: Practical exercise 4 Supraacetabular external fixator, C-clamp, standard external fixator for pelvis. AO Trauma Course Davos Schweiz, 12 01-12 2025 Faculty

Tannast M: Preserving the Joint, Restoring the future, Advances in Hip Preservation. Ortho-Sport Day Genolier Schweiz 05 16 2025

Tannast M: Principles of pelvic injuries. AO Trauma Course Davos Schweiz, 12 01-12 2025 Faculty

Tannast M: Surgical treatment of pelvic fractures – continued. European Pelvic Course. Amsterdam, Niederlande, 05 08-10 2025

Tannast M: Treatment concepts in pelvic fracture. AO Trauma Course Davos Schweiz, 12 01-12 2025 Faculty

Tannast M: Trochanteric osteotomy & relative femoral neck lengthening – indications & techniques. 16th Congress of the European Hip Society Thesaloniki Griechenland 10 16-17 2025

Tannast M: Update on FAI and Dysplasia – A Global View on Management Faculty. ISAKOS Congress, München Deutschland, 06 07-08 2025, Faculty

Tannast M: Well-fixed implant removal, AO Kurs Recon Genf Schweiz, 08 28-29 2025, Faculty

Tannast M: Wetlab. Residents Curse Hüftprothetik, Zuchwil Schweiz, 07 04 2025 (Leitung Prof. Tannast Moritz)

Tannast M: What an orthopaedic Surgeon shoud know on a pelvic X-ray. M.O.R.E. Excellence Young Surgeon Path, Medacta, Bern, 31.03.2025.

Tannast M: What´s new”-“State of the art. DACH Master Seminar Giessen Deutschland 10 09-10 2025

Tinner C, Häckel S, Geismar C, Schaible SF, Broger I, Schoenborn V, Albers CE: Single-Stage Versus Two-Stage Posterior Fusion Procedure in Unstable Thoracolumbar Fractures of the Spine – A Bicentric Trial. 85. Jahreskongress der Swiss Orthopaedics, Zurich, Switzerland, June 25-27, 2025.

Tinner C: Single-stage versus two-stage 360° fusion procedure in unstable thoracolumbar burst fractures – a bicentric trial. DKOU Berlin, 10/2025

Torabi Rahvar P, Schlagenhof L, Kumar A, Abdekhodaie M, Wöltje M, Gantenbein B: Podium TERMIS25\_782 - Differentiation of human bone marrow-derived mesenchymal stromal cells towards nucleus pulposus-like cells: The role of 3D culture. Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting, Freiburg im Breisgau, Germany, 19-23 May, 2025.

Wangler S, Kohlprath R, Erdbrink Stephanie, Künzler M, Moser H, Schär M: Isolated Fracture of the Greater Tuberosity: Prediction of Superior and Posterior Fracture. Displacement on Plain Radiographs, Swissorthopedics

Wangler S, Kohlprath R, Erdbrink Stephanie, Künzler M, Moser H, Schär M: Isolated Fracture of the Greater Tuberosity: Prediction of Superior and Posterior Fracture. Displacement on Plain Radiographs. DKOU Berlin

## Organisation Kurse/Symposien

Anwander H: Operative Treatment of malleolar fractures, Wetlab, 01.11. 2025 (Berner Gesellschaft der Orthopädischen Chirurgen)

Anwander H: BGO – Fortbildungsabend 01.5. 2025 (Berner Gesellschaft der Orthopädischen Chirurgen)

Anwander H: SFAS Surgery Day and Wetlab 29.03.2025 (Swiss foot and ankle society)

Anwander H, Knupp M, Krause F: SFAS Surgeries Days. Bern, Schweiz, 9.2.2024.

Bastian JD, Pape HC, Freystätter G: 7th Orthogeriatrics Day in Zürich, USZ, 17.09.2025

Bastian JD: Meet the Experts Session in Revision of the Femoral component; 16th Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Bastian JD: Osteoporose und Frakturen, Fragility Fracture Network Switzerland, Inselspital, Bern, 14.11.2025

Bastian JD: Workshops 1-3, Fragilty Fracture Network Spezialsession, 85. Jahreskongress Swiss Orthopaedics 2025, Zürich, Schweiz, 25.06.2025

Deml MC, Netzer C: Wintermeeting der SGC – Schweizer Gesellschaft für Spinale Chirurgie, Inselspital Bern, Schweiz 01/2025

Eggimann AK: Workshop Sarkopenie – hands-on. Swiss Orthogeriatric Day, Zürich, 17. September 2025.

Erbach GF, Grob N, Liechti R, Vögelin E: Quantitative Muscle Ultrasound by Elastography and Grayscale Analysis in Innervated and Denervated Intrinsic Hand Musculature. Jahreskongress Federation of European Societies for Surgery of the Hand (FESSH) 2025, Helsinki, Finnland, 25. - 28.06.2025

Häckel S: 1st Bern Fracture Workshop (Inselspital/Junges Forum DWG). Bern, Schweiz, März 2025.

Ivanova S: AO Trauma Young Academy, Bern, Schweiz, 04.09.2025

Ivanova S: Berner Anatomie-Prüfungs-Vorbereitungskurs für angehende Orthopäden im Kanton Bern, Anatomisches Institut, Februar, 25-26, 2025

Ivanova S: AO Trauma Young Academy, Bern, Schweiz, September, 04, 2025

Meier C, Spross C, Ilchmann T, Acklin Y, Beerers F, Eichin M, Gamulin A, Giesinger K, Grab J, Lustenberger T, Neuhaus V, Stoffel K, Wagner D: 28. Bieler Fortbildungstage, Biel, Schweiz, 29./30.10.2025

Netzer Deml MC et. al.: 25. Jahreskongress der Schweizer Gesellschaft für Spinale Chirurgie (2 Tage), Basel, Mercurion Hotel, 08/2025

Pape HC, Pfeifer R, Bastian JD, Keel M, Höch A: Swiss Pelvic & Acetabular Course, Zürich, Schweiz, 17. – 18. Januar

Schnüriger B, Exadaktylos A, Pfortmüller C, Lustenberger T, Haltmeier T, Widmer L: 14th Swiss Trauma & Acute Care Surgery Days 2025, Bern, Schweiz, 13.-14.03.2025

Schöberlein Andreina, Amiq Gazdhar, Volker Enzmann, Benjamin Gantenbein, Eliane Müller, Carsten Riether, Deborah Stroka: Annual Meeting of the Stem Cell and Regenerative Medicine Platform of the University of Bern, 14 Nov 2025, Haus der Universität, Schösslipark, Bern.

Tannast M: Wetlab. Residents Course Hüftprothetik, Zuchwil Schweiz, 07 04 2025

Tannast M: AO Trauma Studierende Kurs Young Academy Switzerland, Bern, Schweiz, 09 04 2025

Tannast M: M.O.R.E. Medacta Excellence Young Surgeons Path, Bern, Schweiz, 31-1-2025

## **Fakultät bei Kursen/Symposien**

Bastian JD: 1. Salzbuger Beckenkurs der OTC Austria, Salzburg, Österreich, 06.-07.04.2025

Bastian JD: 23. AO Trauma Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie (mit praktischen Übungen), Homburg/Saar, Deutschland, 02.-04.07.2025

Bastian JD: 7th Orthogeriatrics Day in Zürich, USZ, 17.09.2025

Bastian JD: Advanced Principles of Fracture Management, AO Trauma Course, Davos, Switzerland, 8.-11.2025

Bastian JD: Surgical treatment of anterior pelvic ring injuries, 11th European Pelvic Course, Amsterdam, Netherlands, 08.-10.05.2025

Bastian JD: Swiss Pelvic & Acetabular Course, Zürich, Schweiz, 17.-18. Januar

Deml MC: AO- Spine Course Davos, Complex Thoracolumbar Spine Reconstruction, Davos, 30.11.-02.12.2025

Deml MC: AO-Spine Cours Wirbelsäule, From Freehand to Robotics, Bern, Schweiz, 11-22.09.2025

Deml MC: Endoscopy in Spine Surgery, Zuchwil, 05/2025

Deml MC: Minisymposium Kinderorthopädie, Inselspital Bern, Kinderwirbelsäule, 11/2025

Deml MC: NSpine- London, Complex Spinal Trauma, 09/2028

Eggimann AK: Swiss Orthogeriatric Day, Jährliche Fachveranstaltung für Ärzt\*innen, Therapeut\*innen, Pflege in der Altersorthopädie. Universitätsspital Zürich, Zürich, 17. September 2025.

Häckel S: AO Spine Courses – Lecturer/Faculty. (Davos, Switzerland), Dezember 2025. AO Spine Course—Mastering Fundamental Techniques in Spine Surgery, December 1-3, 2025, Davos, Switzerland

Henle P: Patella Instability, Alignment Strategy – Torsion and Axis. 2. Swiss Knee Ligament Summit, Bern, November, 14, 2025

Liechti EF: 2nd Swiss Knee Ligament Summit, Bern, Schweiz, November 14, 2025

Liechti EF: Nextar knee expert meeting. Medacta, M.O.R.E. Verona, Italy, November 18th – 19th, 2025

Lustenberger T: Polytrauma in focus: management strategies, 28. Bieler Fortbildungstage, Biel, Schweiz, 29./30.10.2025

Tannast M: Arthroplasty in the Young Adult, Practical Course Orthopaedics, Toulouse Frankreich, 05 21-23 2025, Faculty

Tannast M: Case 2: Dual mobility cups. AO Kurs Recon Genf Schweiz, 08 28-29 2025, Faculty

Tannast M: Die Zukunft der PAO. Medacta DACH Hüftmeeting Wien Österreich 11 13 2025 Faculty

Tannast M: FAI, Dysplasia, Extra-articular Pathology, Practical Course Orthopaedics, Toulouse Frankreich, 05 21-23 2025, Faculty

Tannast M: L'esperienza nella chirurgia conservativa in traumatologia dell'acetabolo. A.I.P. Congresso Nazionale Torino Italien 10 23-24 2025 Faculty

Tannast M: La lussazione chirurgica dell'anca: Tips&Tricks. A.I.P. Congresso Nazionale Torino Italien 10 23-24 2025 Faculty

Tannast M: Pelvic discontinuity. AO Kurs Recon Genf Schweiz, 08 28-29 2025, Faculty

Tannast M: Practical exercise 4 Supraacetabular external fixator, C-clamp, standard external fixator for pelvis. AO Trauma Course Davos Schweiz, 12 01-12 2025 Faculty

Tannast M: Principles of pelvic injuries. AO Trauma Course Davos Schweiz, 12 01-12 2025 Faculty

Tannast M: Treatment concepts in pelvic fracture. AO Trauma Course Davos Schweiz, 12 01-12 2025 Faculty

Tannast M: Update on FAI and Dysplasia – A Global View on Management Faculty. ISAKOS Congress, München Deutschland, 06 07-08 2025, Faculty

Tannast M: Well-fixed implant removal, AO Kurs Recon Genf Schweiz, 08 28-29 2025, Faculty

Tinner C. AO Spine Advanced Level Specimen Course—  
Complex Degenerative Pathologies: Current Concept and Future Directions. Bern, Schweiz, September 11-12, 2025

Tinner C. AO Trauma ORP – Rund ums Femur. Solothurn, Schweiz, März 19, 2025

## Instruktor bei Kursen/Symposien

Bastian JD: 23. AO Trauma Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie (mit praktischen Übungen), Homburg/Saar, Deutschland, 02.-04.07.2025

Bastian JD: Advanced Principles of Fracture Management, AO Trauma Course, Davos, Switzerland, 8.-11.2025

Eggimann AK: Leitung und Moderation Journal Club, BESAS Siloah, 11. Dezember 2025.

Eggimann AK: Leitung und Moderation Journal Club, BESAS Siloah, 13. Februar 2025.

Eggimann AK: Leitung und Moderation Journal Club, BESAS Siloah, 23. Oktober 2025.

Eggimann AK: Leitung und Moderation Journal Club, BESAS Siloah, 3. April 2025.

Eggimann AK: Leitung und Moderation Journal Club, BESAS Siloah, 5. Juni 2025.

Eggimann AK: Leitung und Moderation Journal Club, BESAS Siloah, 7. August 2025.

Gerber K: Biomedical Engineering Laboratory. M.Sc., 6 ECTS. University of Bern, Switzerland, February–June, 2025.

Gerber K, Gerber N: Computer Assisted Surgery. M.Sc., 3 ECTS. University of Bern, Switzerland, February–June, 2025.

Häckel S: Lecture on Spine for Residents. Johnson and Johnson University, Zuchwil, Schweiz, August 2025. J&J University 22nd August 2025, Focus: Lumbar spine, Trauma, Degen, Tumor, Deformity Introduction to Spine Surgery

Ivanova S: AO Trauma Young Academy, Bern, Schweiz, September, 04, 2025

Lustenberger T: Medial Malleolus, Operative treatment of malleolar fractures, BGO Fortbildung, SITEM/Inselspital, Bern Schweiz, 01.11.2025

Schaible SF: Vorbereitungskurs zur Anatomieprüfung (Arthrex). Institut für Anatomie, Universität Bern, Bern, Switzerland, January 31, 2025.

Tannast M: L'esperienza nella chirurgia conservativa in traumatologia dell'acetabolo, A.I.P. Congresso Nazionale Torino, Italien, Oktober,23-24, 2025

Tannast M: La lussazione chirurgica dell'anca: Tips&Tricks, A.I.P. Congresso Nazionale Torino, Italien, Oktober,23-24, 2025

Tannast M: Eidg.Prüfungen, Studentenunterricht, Bern, Schweiz, September, 01 2025

Vetter P: Makroskopische Anatomie 2.Studienjahr, Institut für Anatomie – Medizinische Fakultät - Universität Bern, Schweiz. 17. September – 10.Dezember 2025 (wöchentlich)

## Abstracts

Alonso Domenech B: AI-Powered 3D MRI Biochemical Analysis of Acetabular Cartilage Composition in Hip Dysplasia and Protrusio Using Volumetric dGEMRIC. Swiss Orthopaedics, Zürich, Schweiz, June 25-27 2025

Alonso Domenech B: AI-Powered 3D MRI Biochemical Analysis of Acetabular Cartilage Composition in Hip Dysplasia and Protrusio Using Volumetric dGEMRIC. DKOU, Berlin, Deutschland, September 28-31 2025

Alonso Domenech B: Differences in Femoral Torsion Measurements Across Four Methods in Asymptomatic Volunteers Compared to Symptomatic Patients. DKOU, Berlin, Deutschland, September 28-31 2025

Alonso Domenech E, Roshardt J, Meier M, Hirt J, Schmaranzer F, Ruckli A, Gerber N, Tannast M, Steppacher SD: AI-powered 3D MRI biochemical analysis of acetabular cartilage composition in hip dysplasia and protrusion using volumetric dGEMRIC. German Congress of Orthopaedics and Traumatology (DKOU), Berlin, Germany, October 28-31, 2025.

Bastian JD, Ivanova S, Chantzara A, Egli RJ, Keel MJB. The “Gull sign” in acetabular fractures does not predict early failure, 16th Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Bastian JD, Ivanova S, Prochatzka O, Giannoudis PV, Tosounidis T. Rehabilitation protocols for surgically treated acetabular fractures in older adults: current practices and outcomes, 16th Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Bastian JD, Ivanova S, Rosenstock P, Leibold CS, Vuillemin N, Keel MJB, Egli RJ. The “Gull sign” in acetabular fractures revisited – is the dome impacted or elevated? 16th Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Beckmann N, Ernst R, Jakob S, Müller M, Kuttner H, Bastian JD: Comparison of the biomechanical stability of two fix-and-replace techniques in an acetabular fracture model with pelvic discontinuity, 16th Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Chen S, Tian X, Zwingenberger S, Albers CE, Gantenbein B, Häckel S: Improved Intervertebral Disc Fusion with Biologics: The EP4 agonist KMN159 acts synergistically with BMP2 and L51P to induce osteogenic differentiation of annulus fibrosus cells. 33rd Annual Meeting of the European Orthopaedic Research Society (EORS) / AO Orthopaedic Research Summit 2025, Davos, Switzerland, Juni 16–19, 2025.

Chen S, Tian X, Zwingenberger S, Gantenbein B, Albers CE, Häckel S: Promoting Intervertebral Disc Fusion: The EP4 agonist KMN159 acts synergistically with BMP2 and L51P to induce osteogenic differentiation of annulus fibrosus cells. TERMIS EU Congress 2025 (TERMIS European Chapter Meeting), Freiburg, Germany, Mai 19–23, 2025.

Corr F, Stengel FC, Hastings J, Grimm D, Albrecht C, Joerger A, Albrecht A, Häckel S, Störrle P, Lupi V: Machine Learning–Based Prediction of In-Hospital Mortality in Spondylodiscitis: A Multicenter Retrospective Analysis. Swiss Spine Society Congress 2025, Locarno, Switzerland, September 4–5, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S1):104368.

Croci E, Hess H, Nüesch C, Baumgartner D, Gerber K, Müller AM, Mündermann A: Differences in rotator cuff morphology between shoulders with and without rotator cuff tears. ESB 2025 Congress, Zürich, Switzerland, July 6-9, 2025.

Dirnberger RD, Ruckli AC, Hess H, Zamboni L, Bau I, Zumbrunn T, Hess S, Liechti EF, Gerber N: Automatic segmentation of complex tibial fracture fragments from CT images. Computer Assisted Radiology and Surgery 39th International Congress and Exhibition (CARS), Berlin, Germany, June 17-20, 2025.

Dirnberger RD, Ruckli AC, Hess H, Zamboni L, Bau I, Zumbrunn T, Hess S, Liechti EF, Gerber N. Automatic segmentation of tibial fracture fragments for preoperative reduction planning. Swiss Orthopaedics, Zürich, Schweiz, Juni 25-27, 2025.

Gaff J, Häckel S, Celenza A, Pabbruwe M, Amaya J, Amlani A, Berg A, Kern M, Taylor P, Miles A: Osteolysis After Cervical Disc Arthroplasty: Prevalence, Risk Factors, and Validation of a Novel CT-Based Grading Scale. Swiss Spine Society Congress 2025, Locarno, Switzerland, September 4–5, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S1):104355.

Häckel S, Chen S, Xinggui T, Zwingenberger S, Albers CE, Gantenbein B: Promotion of intervertebral disc fusion: Synergistic effect of BMP2, L51P and the EP4 agonist KMN159 on osteoinduction of annulus fibrosus cells in vitro. German Spine Congress 2025 (DWG), Wiesbaden, Germany, Dezember 10–12, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S4):105688.

Häckel S, Chen S, Xinggui T, Zwingenberger S, Albers CE, Gantenbein B: Promoting Intervertebral Disc Fusion: Synergistic Osteogenic Induction of Human Annulus Fibrosus Cells Using BMP2, L51P, and the EP4 Agonist KMN159. Swiss Spine Society Congress 2025, Locarno, Switzerland, September 4–5, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S1):104341.

Häckel S, Gaff J, Celenza A, Pabbruwe M, Amaya J, Amlani A, Berg A, Kern M, Miles A, Taylor P: Osteolysis after cervical disc arthroplasty: The case of M6C – prevalence, risk factors, and validation of a new CT-based assessment scale. German Spine Congress 2025 (DWG), Wiesbaden, Germany, Dezember 10–12, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S4):105665.

Hefti E, Müller K, Fava Altes AA, Ivanova S, Bastian JD, Frischknecht V, Marcin T, Wilhelm M, Martinez-De la Torre A, Scheel-Sailer A. Rehabilitation nach Hüft-Fragilitätsfraktur bei älteren Erwachsenen: Einflussfaktoren für die Rückkehr zur vorbestehenden Lebenssituation, Zürich 7th Orthogeriatrics Day, 2025

Ivanova S, Bastian JD: Wenn das Becken und die Hüfte brechen: Moderne Wege zurück zur Bewegung, Nacht der Forschung, 2025

Ivanova S. Rehabilitation Protocols for Surgically Treated Acetabular Fractures in Older Adults: Current Practices and Outcomes. EHS, Tesseloniki, Griechenland, 17.10.2025

Ivanova S. The "gull sign" in acetabular fractures revisited - is the dome impacted or elevated? EHS, Tesseloniki, Griechenland, 17.10.2025

Kamradt S, Oswald A, Hess H, Ruckli A, Rojas J, Jacxsens M, Lädemann A, Zumstein M, Gerber K, Schär M: Automated 3D analysis of glenoid bone loss for anteroinferior instability assessment using deep learning. SESEC, Rotterdam, The Netherlands, September 17-19, Jahr 2025.

Kamradt S, Oswald A, Hess H, Ruckli A, Rojas J, Jacxsens M, Lädemann A, Zumstein M, Schär M, Gerber K: Deep learning basierte 3D-Quantifizierung von Knochenverlust bei Schulterinstabilität. Kongress der DVSE, Zürich, Switzerland, May 15-16, 2025.

Kamradt S, Oswald A, Hess H, Ruckli A, Rojas J, Jacxsens M, Lädemann A, Zumstein M, Schär M, Gerber K: AI-based 3D analysis of glenoid bone loss. 30th Congress of the European Society of Biomechanics, ESB, Zürich, Switzerland, Juli 6-9, 2025.

Kamradt S, Oswald A, Hess H, Ruckli A, Rojas JT, Jacxsens M, Lädemann A, Zumstein M, Gerber K, Schär M: Deep learning-based 3D quantification of glenoid bone loss. Swiss Orthopaedics, Zürich, Schweiz, Juni 25-27, 2025.

Kamradt S, Oswald AR, Hess H, Ruckli AC, Rojas JT, Jacxsens M, Lädermann A, Zumstein MA, Schär M, Gerber K: Prediction of the pre-morbid glenoid shape using deep learning for automatic bone loss calculation. Computer Assisted Radiology and Surgery 39th International Congress and Exhibition (CARS), Berlin, Germany, June 17-20, 2025.

Meier MK, Roshardt J, Ruckli A, Gerber N, Lerch TD, Jung B, Tannast M, Schmaranzer F, Steppacher SD: How much do the labrum and cartilage contribute to joint contact surface in different hip deformities? – An automatic deep learning based 3D MRI analysis. 84. Jahreskongress Swiss Orthopedics, Lausanne, Schweiz, 26. -28. Juni, 2024.

Moser HL, Wangler S, Guetg A, Schmocker T, Renz N, Schär M: Management of periprosthetic infection after shoulder arthroplasty: A retrospective cohort study. 42. AGA Kongress Hamburg

Müller K, Hefti E, Antoni FAA, Ivanova S, Bastian JD, Frischknecht V, Marcin T, Wilhelm M, Martinez-De la Torre A, Scheel-Sailer A: Assoziation von Frakturtyp und kognitiver Funktionsfähigkeit auf motorische Funktionsfähigkeit nach einer Hüftfraktur in der post-akuten stationären Rehabilitation, 7th Orthogeriatrics Day, 2025

Mündermann A, Croci E, Nüesch C, Hess H, Baumgartner D, Gerber K, Müller AM: Functional scores are primarily related to muscle morphology and strength and less to osseous anatomy in rotator cuff pathologies and healthy controls. XXX Congress of the International Society of Biomechanics (ISB), Stockholm, Sweden, July 27-31, 2025.

Oswald A, Hess H, Rojas JT, Zumstein M, Gerber K: Effect of posterior humeral subluxation on glenohumeral forces in osteoarthritic scapulae. Swiss Orthopaedics, Zürich, Schweiz, Juni 25-27, 2025.

Oswald A, Hess H, Rojas JT, Zumstein M, Gerber K: Effect of posterior humeral subluxation on glenohumeral forces in osteoarthritic scapulae. SESEC, Rotterdam, The Netherlands, September 17-19, 2025.

Oswald A, Hess H, Rojas JT, Zumstein M, Gerber K: Effect of posterior humeral subluxation on glenohumeral joint forces in Walch B osteoarthritic scapulae. 30th Congress of the European Society of Biomechanics, ESB, Zürich, Switzerland, Juli 6-9, 2025.

Oswald A, Hess H, Rojas JT, Zumstein M, Gerber K: Einfluss der posterioren Humerussubluxation auf die glenohumeralen Gelenkkräfte bei Walch-B-osteoarthritischen Scapulae. Kongress der DVSE, Zürich, Switzerland, May 15-16, 2025.

Roshardt J, Meier M, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: Revising the coxa profunda sign reveals no association with acetabular deformities or 3D lunate surface area. German Congress of Orthopaedics and Traumatology (DKOU), Berlin, Germany, October 28-31, 2025.

Roshardt J, Meier M, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. German Congress of Orthopaedics and Traumatology (DKOU), Berlin, Germany, October 28-31, 2025.

Roshardt J, Meier M, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher S, Schmaranzer F: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. 16th EHS Congress, Thessaloniki, Greece, 15.–17.10.2025

Roshardt J, Meier M, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: Revising the coxa profunda sign reveals no association with acetabular deformities or 3D lunate surface area. 16th EHS Congress, Thessaloniki, Griechenland, 15.–17.10.2025

Roshardt J, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. EFORT 26th Annual Congress, Lyon, France, June 11-13, 2025.

Roshardt JA, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher SD, Schmaranzer F: Revising the coxa profunda sign reveals no association with acetabular deformities or 3D lunate surface area. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA, Meier MK, Lerch T, Ruckli A, Gerber N, Tannast M, Steppacher S, Schmaranzer F: AI-powered automatic 3D segmentation of hip labrum and cartilage from non-contrast hip MRI. EFORT Congress 2025, Lyon, Frankreich, 13.06.2025

Roshardt JA, Meier MK, Lerch TD, Tannast M, Hoch A, Sommer S, Sutter R, Steppacher SD, Schmaranzer F: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. EFORT Congress 2025, Lyon, Frankreich, 11.06.2025

Roshardt JA, Meier MK, Lerch TD, Tannast M, Hoch A, Sommer S, Sutter R, Steppacher SD, Schmaranzer F: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA, Meier MK, Lerch TD, Tannast M, Hoch A, Sommer S, Sutter R, Steppacher SD, Schmaranzer F: 3D MRI-based virtual radiographs of the pelvis for assessment of acetabular coverage and version: A feasibility study in young patients evaluated for joint preserving hip surgery. 85. Jahreskongress swiss orthopaedics, Zürich, Schweiz, 26.06.2025

Roshardt JA, Schroeter-Sakslund P, Meier MK, Lerch TD, Tannast M, Steppacher SD, Schmaranzer F: Differences in femoral torsion measurements across four methods in asymptomatic volunteers compared to symptomatic patients. DKOU 2025, Berlin, Deutschland, 30.10.2025

Roshardt JA, Schroeter-Sakslund P, Meier MK, Lerch TD, Tannast M, Steppacher SD, Schmaranzer F: Differences in femoral torsion measurements across four methods in asymptomatic volunteers compared to symptomatic patients. EFORT Congress 2025, Lyon, France, 13.06.2025

Schaible SF, Bieri Y, Gewiess J, Deml MC: Radiographic and Clinical Outcomes of a 3D-Printed Mesh Polyamide Brace for Adolescent Idiopathic Scoliosis: A Retrospective Study. 85. Jahreskongress der Swiss Orthopaedics, Zurich, Switzerland, June 25-27, 2025

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E: Hip Flexion Alters CT-Based Femoral Torsion Measurement: 3-D Comparison of Murphy Versus Waidelich Methods. 16th Congress of the European Hip Society, Thessaloniki, Greece, October 17-18, 2025.

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E: Hip Flexion Influences Cross-Section-Based Measurement of Femoral Torsion: A Three-Dimensional Comparative Analysis of the Murphy and Waidelich Methods. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, Germany, October 28-31, 2025.

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E: Hip Flexion Influences Cross-Section-Based Measurement of Femoral Torsion: A Three-Dimensional Comparative Analysis of the Murphy and Waidelich Methods. 42. AGA Kongress, Hamburg, Germany, September 11-13, 2025.

Schaible SF, Hess S, Hecker A, Lerch T, Liechti E: Impact of Hip Flexion on CT-Based Femoral Torsion Measurements: A Three-Dimensional Comparative Analysis. 85. Jahreskongress der Swiss Orthopaedics, Zurich, Switzerland, June 25-27, 2025.

Schaible SF, Warnke PJ, Gewiess J, Deml MC. 3D-Printed Polyamide-12 Mesh Brace for Adolescent Idiopathic Scoliosis: A Preclinical Validation and Clinical Pilot Study [Conference Abstract]. Brain Spine. 2025; Article 104362.

Schaible SF, Westerkamp R, Lerch TD, Liechti EF: Hip Flexion Influences Cross-Section–Based Measurement of Femoral Torsion: A Three-Dimensional Comparative Analysis of the Murphy and Waidelich Methods. 42. AGA-Kongress, Hamburg, Germany, September 11th – 13th, 2025

Tinner C, Häckel S, Geismar C, Schaible SF, Broger I, Schoenborn V, Albers CE. Single-stage versus two-stage 360° fusion procedure in unstable thoracolumbar burst fractures – a bicentric trial. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, Germany, October 28-31, 2025.

Tinner C, Häckel S, Geismar C, Schaible SF, Broger I, Schoenborn V, Albers CE. Single-Stage Versus Two-Stage Posterior Fusion Procedure in Unstable Thoracolumbar Fractures of the Spine – A Bicentric Trial. 85. Jahreskongress der Swiss Orthopaedics, Zurich, Switzerland, June 25-27, 2025.

Veenstra AC, Arni A, Bigdon S, Albers CE, Deml MC, Häckel S: Sex-specific Differences in the Epidemiology, Bone Quality, and Management of Traumatic Spinal Injuries: A 10-Year Cohort Study. German Spine Congress 2025 (DWG), Wiesbaden, Germany, Dezember 10–12, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S4):105732.

Veenstra AC, Arni A, Gernler M, Babic A, Milavec H, Albers CE, Deml MC, Häckel S: Sex Differences in Traumatic Spine Injuries: A Combined Retrospective and Scoping Review. Swiss Spine Society Congress 2025, Locarno, Switzerland, September 4–5, 2025. Publiziert in: Brain and Spine. 2025;5(Suppl. S1):104372.

Wangler S, Kohlprath R, Erdbrink Stephanie, Künzler M, Moser H, Schär M: Isolated Fracture of the Greater Tuberosity: Prediction of Superior and Posterior Fracture. Displacement on Plain Radiographs, Swissorthopedics

Wangler S, Kohlprath R, Erdbrink Stephanie, Künzler M, Moser H, Schär M: Isolated Fracture of the Greater Tuberosity: Prediction of Superior and Posterior Fracture. Displacement on Plain Radiographs. DKOU Berlin

## **Vorsitz/Rundtischdiskussion bei Kursen/Symposien**

Bastian JD: 23. AO Trauma Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie (mit praktischen Übungen), Homburg/Saar, Deutschland, 02.-04.07.2025

Bastian JD: Advanced Principles of Fracture Management, AO Trauma Course, Davos, Switzerland, 8.-11.2025

Bastian JD, Drosos G: Free paper session, Revision. 16<sup>th</sup> Congress of the European Hip Society, Thessaloniki – Greece, 16.-17.10.2025

Gerber K: Biomedical imaging II: AI and medical image analysis, Chair, EMBC, 30th Congress of the European Society of Biomechanics, July 6-9, 2025

Häckel S: Spine Science Symposium „Cartilage and Bone“. Moderation/Vorsitz. Spine Science Symposium Cartilage and Bone 2025, Frankfurt am Main, Deutschland, Mai 15–16, 2025.

Häckel S: Rapid Fire Session. Chair. SGS Annual Meeting 2025, Hyperion Hotel, Basel, Schweiz, September 4, 2025.

Häckel S: Rapid Fire 6 „Grundlagen“. Moderation/Vorsitz (Donnerstag, 11:10–12:20, Event-Stage; Co-Vorsitz: S. Lang). 20. Jahrestagung der Deutschen Wirbelsäulengesellschaft (DWG), Wiesbaden, Deutschland, Dezember 10–12, 2025.

Häckel S: Spine Science Symposium. Moderation/Vorsitz (Donnerstag, 11:10–12:20, Event-Stage; Co-Vorsitz: Stefan Zwingenberger, S. Lang). 20. Jahrestagung der Deutschen Wirbelsäulengesellschaft (DWG), Wiesbaden, Deutschland, Dezember 10–12, 2025.

Tannast M: Moderator, Complex primary total hip arthroplasty (THA), AO Recon Course—Complex Total Hip Arthroplasty, Genf, 28.-29.08.2025.

Tannast M: Moderator, M.O.R.E. Medacta Excellence Young Surgeons Path, Bern, Schweiz, 31-1-2025

Tannast M: Moderator, Hip Round Table Johnson&Johnson, Bern, Schweiz, 09 24 2025

### **Zusätzliche Lehrleistungen**

Gantenbein B: Gastdozent ZHAW und ETH Zürich, “Mechanobiology, Bioreactors and Mechanical Forces” 23 Oct 2025, 2 Lektionen

Gantenbein B: Gastdozent Universität Basel, Cells and Technologies in Regenerative Surgery Master of Biomedical Engineering 24 Oct 2025, Mechanobiology, Bioreactors and Mechanical Forces” Lektionen. Course Number 53825-01.

Bastian JD: Wahlpraktikum Nr. 36078 "Klinische Anatomie der traumatologisch-orthopädischen operativen Zugangswege – Untere Extremität" für Studierende im 2. Studienjahr, Institut für Anatomie, Universität Bern

Bastian JD: Wahlpraktikum Nr. 30575 "Klinische Anatomie der traumatologisch-orthopädischen operativen Zugangswege – Obere Extremität" für Studierende im 2. Studienjahr, Institut für Anatomie, Universität Bern

Häckel S: Dozentin an der Berner Fachhochschule (BFH), Departement Gesundheit (laufend). Angaben zu Titel der Vorlesung, Datum/Zeitraum 2025 und 2h. 26. Mai 2025 PD Dr. med. Sonja Häckel  
Grundlagen der Wirbelsäulenchirurgie

Henle P: Organisator: Orthopaedic Practical Course, Wochenkurs Orthopädie, Universität Bern, Masterstudiengang Biomedical Engineering, 9.-13.9.2023, 40 Lehrstunden

Henle P: Dozent: Ligamys – Restoring the ruptured ACL; Design of Biomedical Systems; Universität Bern, Masterstudiengang Biomedical Engineering, 28.11.2024, 2 Lehrstunden

Tannast M: Vorlesungen 3. Studienjahr. Studentenunterricht, Bern, Schweiz, Februar, 02, 2025

Vetter P: Makroskopische Anatomie 2.Studienjahr, Institut für Anatomie – Medizinische Fakultät - Universität Bern, Schweiz. 17.09 – 10.12.2025 (wöchentlich)

### **Habilitationen**

PD Dr. med. Emanuel F Liechti, Universitätsklinik für Orthopädische Chirurgie und Traumatologie, Inselspital, wurde am 25.03.2025 die Habilitation für das Fach Orthopädische Chirurgie und Traumatologie erteilt

## Stipendien

-

## Masterarbeiten

Abplanalp Dominik

Demographic Changes in ACPHT Over the Last 15 Years.

Leitung: Prof. Dr.med. Johannes Bastian, Dr.med. Nicolas Vuillemin, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Biebuyck Antoine

Development of Image Guidance Solution for Novel Cerebral Therapy Devices

Leitung: PD Dr. Kate Gerber, Department of Orthopaedic Surgery and Traumatology, Inselspital, Bern University Hospital, University of Bern, 2025

Busato Dario Luca

Is the survival rate at mid-term followup after surgery for post-traumatic FAI, using conversion to THA as the endpoint? - A single-center retrospective

Leitung: Prof. Dr. med. Moritz Tannast, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Canal Johannes

Morphological variations of the pelvis between DDH and AR identified through 3D-CT reconstructions

Leitung: Prof. Dr.med. Simon Steppacher, Dr.med. Nicolas Vuillemin, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Depestel Cassy-Lou

Mechanobiological Evaluation of a Liposomal Formulation for Intervertebral Disc Therapy.

Leitung: Prof. Dr. Benjamin Gantenbein, Department of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern Dr. Gregor Bordon, Department of Chemistry, Biochemistry and Pharmaceutical Sciences (DCBP), Faculty of Science, University of Bern 30 September, 2025

Ender Jana

Towards Clinical Application of Musculoskeletal Modeling: An OpenSim-based Approach

Master of Science-Programm «Biomedical Engineering» ETH Zürich

Leitung: Dr. Patric Eichelberger, Bern Movement Lab, Bern University of Applied Sciences

PD Dr. med. Emanuel Liechti, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Ferhat Kara

Implementation of a hands-on workshop on disabilities to a geriatric teaching program for dental students: Analysis of a student feedback questionnaire.

Leitung: PD Anna Eggimann, Department of Orthopaedic Surgery and Traumatology, and Department of Geriatrics, Inselspital, University of Bern, 2025

Klimov Artem

Development of an Isolation Protocol for Subacromial Bursa-Derived Cells: A laboratory study

Leitung: PD Dr. med. Michael Schär, PD Dr. Dr. med. Sebastian Wangler, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Meier Jonathan Simeon Evaluation of intraoperative workflow, screw accuracy, and clinical outcomes of navigated spinal instrumentation for spinal deformity using the mobile AIRO CT scanner: a retrospective cohort study. Supervisors: Dr. med. Samuel F. Schaible, Prof. Dr. Moritz C. Deml, Department of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025.

Murmann Valérie

Unterschiede der Beckeninklination und Beckenrotation bei symptomatischem femoroazetabulären Pincer-Impingement und Hüftdysplasie

Leitung: Prof. Dr. med. Moritz Tannast, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Schroeter-Sakslund P

Differences in femoral torsion measurements across four methods in asymptomatic volunteers compared to symptomatic patients.

Leitung: Prof. Dr. med. Simon D. Steppacher, Dr. med. univ. Jose A. Roshardt, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Spreng Joshua

SupraReactor: A novel bioreactor system to investigate the biomechanical characteristics of the supraspinatus enthesis

Leitung: Prof. Dr. Benjamin Gantenbein, PD Dr. Michael Schär, Department of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 15 April, 2025.

Sutter Andrin

Mechanobiologische Studie über die Enthese der Rotatorenmanschette in einem Ex-vivo-Schafmodell

Leitung: PD Dr. med. Michael Schär, PD Dr. Dr. med. Sebastian Wangler, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Torres Revelo Isabella

Automatic Acetabular Fracture Classification from CT using Deep Learning Techniques

Leitung: Dr. Nicolas Gerber, Prof. Dr. med. Johannes Bastian, Department of Orthopaedic Surgery and Traumatology, Inselspital, Bern University Hospital, University of Bern, 2025

Wallkamm Julia

Treatment Approaches for Traumatic Thoracolumbar Burst Fractures – A Comparative Analysis

Leitung/Betreuung: Prof. Dr. med. Christoph E. Albers / Georg F. Erbach, Department of Orthopaedic Surgery and Traumatology, University of Bern, 2025

Zwimpfer Lina

The impact of a hands-on workshop using an age simulation suit on geriatric attitude among undergraduate dental students. Survey analysis

Leitung: PD Anna Eggimann, Department of Orthopaedic Surgery and Traumatology, and Department of Geriatrics, Inselspital, University of Bern, 2025

## Dissertationen

Crump Katherine Briana, PhD

Mechanobiology and pro-inflammatory cytokines in the intervertebral disc: An *in vitro*, *ex vivo*, and *in silico* investigation

Leitung: Prof. Dr. Benjamin Gantenbein, Department of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 28 May, 2025.

Leimbacher Thierry

Normal range of femoral version for different measurement methods on CT or MRI - scoping review of normal femoral version

Leitung: PD Dr. med. Emanuel Liechti, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, December 10th, 2025

Merz Nicola

Impact of sarcopenia diagnosed by point-of care ultrasound on geriatric rehabilitation outcomes: a prospective cohort study.

Leitung: PD Anna Eggimann, Department of Orthopaedic Surgery and Traumatology, and Department of Geriatrics, Inselspital, University of Bern, 2025.

Mosimann Eleonore

The medial clearspace is a risk factor for secondary dislocation following cast immobilization after closed reduction in closed ankle fracture dislocations.

Leitung: PD Dr. med. Helen Anwander, Dr. med. Verena Hecht Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Prochazka Ondrej

Rehabilitation Protocols for Surgically Treated Acetabular Fractures in Older Adults: Current Practices and Outcomes

Leitung: Dr. med. S. Ivanova, Prof. Dr. med. J. D. Bastian, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Rosenstock Piet-Lennart

The "gull sign" in geriatric acetabular fractures revisited - is the dome impacted or elevated

Leitung: Prof. Dr. med. Johannes D. Bastian, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025.

Ruch Christian

Difference in discharge disposition, adherence to clinical care standards and functional outcomes of older hip fracture patients receiving an orthogeriatric model of care versus routine care.

Leitung: PD Anna Eggimann, Department of Orthopaedic Surgery and Traumatology, and Department of Geriatrics, Inselspital, University of Bern, 2025

Ruckli Adrian

Uncertainty-based Error Localization and Correction for Deep Learning Anatomy Segmentation for Treatment Planning in Orthopaedics.

Leitung: PD Dr. Kate Gerber, Department of Orthopaedic Surgery and Traumatology, Inselspital, Bern University Hospital, University of Bern, 2025

Schaible Samuel Friedrich Feasibility and Efficacy of Portocaval Shunts in Preventing Hemodynamic Changes associated with Small for Size Syndrome Following Extended Hepatectomy in a Porcine Model.

Supervisor: Prof. Dr. med. Arianeb Mehrabi, Chirurgische Universitätsklinik, Universitätsklinikum Heidelberg, 2025.

Segessenmann Jannine Tabea

Validation of a computerized model for a new biomechanical concept - the fossa-foveolar mismatch - the answer to lesions of the ligamentous fossa-foveolar complex in the hip?

Leitung: Prof. Dr. med. Moritz Tannast, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2025

Shuimu Chen, MD-PhD

A Mechanistic Study of Different Intervertebral Disc Phenotypes and Their Effects on Spinal Fusion

Leitung: Prof. Dr. Benjamin Gantenbein, Department of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 29 July, 2025

Zehnder Rahel

Discriminative Ability and Associations of Sarcopenia Using Point-of-Care Ultrasound with Functional, Mobility and Frailty Status in Older Inpatients.

Leitung: PD Anna Eggimann, Department of Orthopaedic Surgery and Traumatology, and Department of Geriatrics, Inselspital, University of Bern, 2025

## Patente

Gerber K, Gerber N, Weber S, Anso J, Williamson T: System for determining proximity of a surgical tool to key anatomical features, US patent US12201374B2, January 21, 2025  
<https://patents.google.com/patent/US12201374B2/en>

Fortlaufende Liste der Ernennungen ab 2005		v 27.06.2025
<b>Professuren</b>		
2025	Prof. Dr. med. Moritz Deml	
2023	Prof. Dr. med. Simon Steppacher	
2023	Prof. Dr. med. Christoph Albers	
2020	Prof. Dr. med. Johannes Bastian	
2020	Prof. Dr. med. Frank Klenke	
2019	Prof. Dr. med. Fabian Krause	
2018	Prof. Dr. med. Moritz Tannast	
2017	Prof. Dr. med. Matthias Zumstein	
2016	Prof. Dr. med. Emin Aghayev	
2016	Prof. Dr. med. Lorin Benneker	
2015	Prof. Dr. med. Martin Weber	
2014	Prof. Dr. med. Christoph Röder	
2014	Prof. Dr. med. Martin Beck	
2010	Prof. Dr. med. Stefan Eggli	
2008	Prof. Dr. med. Paul Ferdinand Heini	
2005	Prof. Dr. med. Klaus Arno Siebenrock	
<b>SNF Förderungsprofessur</b>		
2013	Prof. Dr. med. Moritz Tannast	
<b>Habilitationen</b>		
2025	PD Dr. Emanuel Liechti	
2024	PD Dr. Dr. Sebastian Wangler	
2024	PD Dr. Sonja Häckel	
2023	PD Dr. Sebastian Bigdon	
2023	PD Dr. Andreas Hecker	
2022	PD Dr. Michael Schär	
2022	PD Dr. Bertolo Alessandro	
2022	PD Dr. med. Helen Anwander	
2022	PD Dr. med. Peter Wahl	
2021	PD Dr. med. Moritz Deml	
2020	PD Dr. med. Philipp Henle	
2020	PD Dr. med. Christoph Albers	
2019	PD Dr. med. Simon Steppacher	
2018	PD Dr. med. Sven Hoppe	
2017	PD Dr. med. Timo Ecker	
2017	PD Dr. med. Daniel Haschtmann	
2017	PD Dr. med. Sandro Kohl	
2016	PD Dr. med. Lorenz Büchler	
2016	PD Dr. med. Johannes Bastian	
2015	PD Dr. med. Beat Kaspar Moor	
2014	PD Dr. med. Moritz Tannast	
2013	PD Dr. med. Frank M. Klenke	
2011	PD Dr. med. Fabian Krause	
2011	PD Dr. med. Lorin Michael Benneker	
2011	PD Dr. med. Matthias Zumstein	
2010	PD Dr. med. Richard Walter Nyffeler	
2010	PD Dr. med. Christoph Röder	
2008	PD Dr. med. Martin Weber	
2006	PD Dr. med. Martin Beck	