

Universitätsklinik für Orthopädische Chirurgie und Traumatologie

Jahresbericht 2020

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Personelles

Klinikdirektor und Chefarzt

Prof. Dr. K.-A. Siebenrock

Teamleiter/Teamleiter-Stv./Leitende Ärzte

Prof. Dr. K.-A. Siebenrock	Hüfte, Becken
Prof. Dr. J. Bastian	Hüfte, Becken, Orthogeriatric
PD Dr. S. Steppacher	Hüfte, Becken
PD Dr. C. Albers, Co-Teamleiter	Wirbelsäule
Dr. M. Deml, Co-Teamleiter	Wirbelsäule
Prof. Dr. F. Klenke	Knie und Sportverletzungen, Tumorchirurgie
Dr. B. Kleer, Teamleiterin-Stv.	Knie und Sportverletzungen
Dr. M. Schär	Obere Extremität und Sport
Dr. J. Weihs, Teamleiter-Stv.	Obere Extremität und Sport
Prof. Dr. F. Krause	Sprunggelenk und Fuss

Spitalfachärzte/Oberärzte/OA-Stv.

Dr. med. Anwander Helen	Dr. med. Hecker Andreas	Luyet Anaïs, dipl. Ärztin
Dr. med. Attinger Marc	Dr. med. Kehl Christian	Dr. med. Milavec Helena
Dr. med. Bigdon Sebastian	Dr. med. Kolp Dagmar	Dr. med. Rüeger Tobias
Dr. med. Flückiger Remy	Dr. med. Kurze Christophe	Dr. med. Scacchi Philipp
Dr. med. Gieger Jochen	Dr. med. Liechti Emanuel	Dr. med. Tinner Christian

Konsiliarii

Prof. Dr. L. Benneker	Dr. Seidel Ulrich
Prof. Dr. M. Keel	Prof. Dr. M. Zumstein

Assistenzärzte

Afifi Mohamed, dipl. Arzt	Dr. med. Hanke Markus	Leibold Christiane, dipl. Ärztin
Ambühl Benedikt, dipl. Arzt	Hilverdink Elsa, dipl. Ärztin	Dr. med. Moser Helen
Dr. med. Behrends Dominique	Dr. med. Holtmann Julia	Pfeiffer Nele, dipl. Arzt
Brugger Robin, dipl. Arzt	Huber Christoph, dipl. Arzt	Dr. med. Schott Philipp
Eberlein Sophie, dipl. Ärztin	Hurni Philippe, dipl. Arzt	Schürholz Katharina, dipl. Arzt
Dr. med. Fairhurst Paul	Dr. med. Inglin Fabienne	Dr. med. Spasojevic Milos
Gewiess Jan, dipl. Arzt	Käser Dominic, dipl. Arzt	Dr. med. Suter Dominik
Dr. med. Häckel Sonja	Dr. med. Künzler Michael	Tsinas Dionysius, dipl. Arzt
		Dr. med. Wangler Sebastian

Wissenschaftliche Ärzte und Mitarbeiter

Prof. Benjamin Gantenbein	Tissue Engineering, Orthopaedic Research & Mechanobiology
Prof. Dr. E.-B. Hunziker	Zentrum für Regenerative Medizin der Skelettalen Gewebe
Dr. med. Malin Meier	Wissenschaftliche Assistenzärztin Hüfte
Dr. med. Katharina Oswald	Wissenschaftliche Assistenzärztin Wirbelsäule
Alexandra Keiser	Wissenschaftliche Sachbearbeiterin

Forschung und Lehre

Preise/Ehrungen

US-Magazin "Newsweek" recognizes Inselspital Bern, Orthopädische Chirurgie und Traumatologie as one of the world's Best specialized Hospitals 2021.



Häckel S., Gantenbein B.

06/2020 European Union's Horizon 2020 research and innovation programme (grant agreement No 825925) 'iP-Spine - Induced pluripotent stem cell-based therapy for spinal regeneration' (Consortium Member, <https://ipspine.eu/consortium/universitat-bern-2>).

Drittmittel

Anwander H

Swiss orthopaedics

Pressure Ultrasound Measurement of Lower Leg Compartment Elasticity in Healthy Subjects.

CHF 20'000

07/2020-06/2021

Anwander H

Clinical trial unit (CTU)

Functional Results one Year after Early Rehabilitation for an Acute Achilles Tendon Rupture.

CHF 80'000

01/2021 – 12/2022

Flückiger R

Medartis AG, Hochbergstrasse 60E, 4057 Basel, Schweiz

Implantation of a wrist spanning plate for complex distal radius fractures – A prospective observational study.

CHF 36'000

2020–2023

Flückiger R, Weihs J, Schär MO

Medartis AG, Hochbergerstrasse 60E, 4057 Basel

Klinische Studie mit Evaluation Wrist Spanning Plate.

CHF 12'924

2020

Gantenbein B

H2020 European Commission Grant

"disc4all" Marie Skłodowska-Curie Innovative Training Network (ITN), Grant Agreement #955735

CHF 640'000

2020-2025

Gantenbein B

Schweizerischer Nationalfonds (SNF)

Fibre-based 3D implants from regenerated silk fibroin for intervertebral disc regeneration

CABMM: Analysing the Transcriptome of Cells of Intervertebral Discs with Modic Changes and its Relevance for Spinal Fusion. Grant # 310030E_192674/1

CHF 340'000

2020-2023

Gantenbein B

Center of Applied Biotechnology and Molecular Medicine (CABMM), Universität Zürich

Analysing the Transcriptome of Cells of Intervertebral Discs with Modic Changes and its Relevance for Spinal Fusion

CHF 38'000

2020-2021

Häckel S

AO Spine ESA Young researchers Grants 2020

Treating Discogenic Pain by Reducing Nerve Sensitization and Ingrowth using COX-2 Inhibitor Celecoxib.

CHF 7'500

2021-2022

Häckel S, Bastian JD

Swiss Orthopaedics

Refinement of current rehabilitation protocols to increase the compliance to weight bearing restrictions in elderly after fracture fixation.

CHF 20'000

2020 –2021

Häckel S; Bastian JD

Swiss Orthopaedics Research Fund

Refinement of current rehabilitation protocols to increase the compliance to weight-bearing restrictions in elderly after fracture fixation.

CHF 20'000.-

2020–2021

Hofstetter W, Klenke FM

Alfred & Anneliese Sutter-Stöttner Stiftung, Münchwilen, Schweiz

Heilung von Defekten in osteoporotischen Knochen unter Behandlung mit Bisphosphonaten.

CHF 150'000.-

2019-2021

Klenke FM

Medacta International, Castel San Pietro, Schweiz

Assessment of reperfusion injury in primary total knee arthroplasty. A prospective, randomized controlled trial.

CHF 180'000.-

2018-2020

Klenke FM

Zimmer Biomet, Winterthur, Schweiz

Treatment of Periprosthetic joint infection of the knee

CHF 95'000.-

2019-2020

Künzler MB, Moser HL, Zumstein MA
Forschungscampus der Stiftung Lindenhof Bern (Campus SLB)
Early Degenerative Changes after Rotator Cuff Tear in Infraspinatus Muscle of PARP-1 Knock-Out Mice
CHF 10'000
2020-2022

Künzler MB, Schär MO
Swiss Orthopaedics
Biologic Augmentation of Rotator Cuff Tear Healing
25'000
2020-2022

Lerch TD
SNF Schweizerischer Nationalfonds
Titel: 3D MRI based automatic segmentation of 3D models of the hip joint for patient-specific diagnosis and improved surgical outcome for children with Slipped capital femoral epiphysis and Femoro-acetabular Impingement. Early Postdoc.Mobility.
CHF 51'000
2021

Moser HL, Künzler MB, Zumstein MA
Forschungscampus der Stiftung Lindenhof Bern (Campus SLB)
The effect of PARP1 on the infraspinatus tendon following rotator cuff tear.
CHF 7500.-
2020-2022

Schär MO, Weihs J, Flückiger R
Medacta
Nachsorge und klinische Evaluation der Medacta Schulterprothese.
CHF 66'000
2020

Schär MO, Weihs J, Flückiger R
Chemex Trading AG, Route Saint-Nicolas-de-Flüe 10, 1700 Fribourg
Klinische Evaluation von Knochenankern in der Schulterchirurgie.
CHF 10'000
2020

Vernengo A, Grad S, Häckel S
ON Foundation Kickstarter Grant
3D Printed Multi-Scale, Cell Instructive Tissue Engineering Scaffolds for Annulus Fibrosus Tissue Regeneration.
CHF 10'000.-
2020–2021

Wangler S
Stipendienfonds SGO/SSO
Medical Development/Medical Education/Engineering Research: Development of an affordable arthroscopic virtual reality (VR) trainer robot based on a standalone VR platform
CHF 4'500
2020-2021

Wangler S, Hoppe S
Swiss Orthopedics
Immunomodulatory and regenerative treatment of traumatic and degenerative intervertebral disc cells by mesenchymal stem cell secretome
CHF 20'000
2020-2021

Wangler S, Knobel S

Swiss Orthopedics

Development of an arthroscopic virtual reality (VR) trainer robot based on a standalone VR platform

CHF 4'500

2020-2021

Originalarbeiten

Ahmad SS, Schürholz K, Liechti EF, Hirschmann MT, Kohl S, Klenke FM: Seventy percent long-term survival of the repaired ACL after dynamic intraligamentary stabilization. *Knee Surg Sports Traumatol Arthrosc.* 2020 Feb;28(2):594-598.

Arenas-Miquelez A, Murphy RJ, Rosa A, Caironic D, Zumstein MA: Impact of humeral and glenoid component variations on range of motion in reverse geometry total shoulder arthroplasty: a standardized computer model study. *J Shoulder Elbow Surg.* 2020 Aug;S1058-2746(20)30621-2.

Bäcker HC, Busko M, Krause FG, Exadaktylos AK, Klukowska-Roetzler J, Deml MC: Exertional rhabdomyolysis and causes of elevation of creatine kinase. *Phys Sportsmed.* 2020 May;48(2):179-185. doi: 10.1080/00913847.2019.1669410. Epub 2019 Sep 30. PMID: 31532694.

Bäcker HC, Vosseller JT, Exadaktylos AK, Perka C, Benneker LM, Krause FG, Deml MC: Epidemiology and injury patterns of aerial sports in Switzerland. *World J Orthop.* 2020 Feb 18;11(2):107-115. doi: 10.5312/wjo.v11.i2.107. PMID: 32190554; PMCID: PMC7063457.

Bäcker HC, Wu CH, Vosseller JT, Exadaktylos AK, Benneker LM, Krause FG, Hoppe S, Albers CE: Spinopelvic dissociation in patients suffering injuries from airborne sports. *Eur Spine J.* 2020 Oct;29(10):2513-2520. doi: 10.1007/s00586-019-05983-6. Epub 2019 Apr 29. PMID: 31037422.

Bakirci E, Tschan K, May RD, Ahmad SS, Kleer B, Gantenbein B: The importance of plasmin for the healing of the anterior cruciate ligament. *Bone & Joint Res.* 2020;9:543-553.

Bastian JD, Näf DR, Cullmann JL, Keel MJ, Giannoudis PV: Does increased acetabular depth affect safe infra-acetabular screw placement in acetabular fracture fixation? *Eur J Trauma Emerg Surg.* 2020 Jul 29. doi: 10.1007/s00068-020-01455-5.

Bigdon SF, Weihs J, Schaer MO: Traumatische Schulterluxation – ein praktischer Leitfadentext. *Therapeutische Umschau.* 2020;77(5), S. 189-198. Huber 10.1024/0040-5930/a001174.

Deml MC, Mazuret Sepulveda CA, Albers CE, Hoppe S, Bigdon SF, Häckel S, Milavec H, Benneker LM: Anterior column reconstruction of the thoracolumbar spine with a new modular PEEK vertebral body replacement device: retrospective clinical and radiologic cohort analysis of 48 cases with 1.7-years follow-up. *Eur Spine J.* 2020 Dec;29(12):3194-3202. doi: 10.1007/s00586-020-06464-x. Epub 2020 May 28. PMID: 32468192.

Fairhurst PG, Tsinas D, Shokiche CC, Keel MJB, Siebenrock KA, Bastian JD: The use of the E-PASS scoring system in determining complication development in patients with isolated acetabular fractures. *Eur J Trauma Emerg Surg.* 2020 May;23. doi: 10.1007/s00068-020-01395-0.

Fösel AC, Seidel A, Attinger MC, Zderic I, Gueorguiev B, Krause FG: Ankle Joint Pressure in Supination-External Rotation Injuries: A Biomechanical Study in an Unrestrained Cadaver Model. *Foot Ankle Spec.* 2020 Sep;2:1938640020950183. doi: 10.1177/1938640020950183. Online ahead of print. PMID: 32875824.

Gantenbein B, Tang S, Guerrero J, Higuera-Castro N, Salazar-Puerta AI, Croft AS, Gazdhar A, Purmessur D: Non-viral Gene Delivery Methods for Bone and Joints. *Frontiers in Bioengineering and Biotechnology* 2020;8:1320.

Guerrero J, Häckel S, Croft AS, Albers CE, Gantenbein B: The effects of 3D culture on the expansion and maintenance of nucleus pulposus progenitor cell multipotency. *JOR SPINE* 2020;e1131.

Häckel S, Albers CE, Bastian JD, Hoppe S, Benneker LM, Keel MJB: Direct anterior decompression of L4 and L5 nerve root in sacral fractures using the pararectus approach: a technical note. *Arch Orthop Trauma Surg.* 2020 Mar;140(3):343-351. doi: 10.1007/s00402-019-03276-7. Epub 2019 Sep.

Hanke MS, Beckmann NA, Keel MJB, Siebenrock KA, Bastian JD: Revision of a blade cut-out in PFN-A fixation: Blade exchange, cement augmentation and a cement plug as a successful salvage option. *Trauma Case Rep.* 2020 Apr;16;27:100303. doi: 10.1016/j.tcr.2020.100303. eCollection 2020 Jun.

Hanke MS, Keel MJB, Cullmann JL, Siebenrock KA, Bastian JD: Transfer of osteochondral shell autografts to salvage femoral head impaction injuries in hip trauma patients. *Injury.* 2020 Mar;51(3):711-718. doi: 10.1016/j.injury.2020.01.037. Epub 2020 Jan 28.

Hanke MS, Schmaranzer F, Steppacher SD, Lerch TD, Siebenrock KA: Hip preservation. *EFORT Open Rev.* 2020 Oct;26;5(10):630-640. doi: 10.1302/2058-5241.5.190074. eCollection 2020 Oct.

Hecker A, Aguirre J, Eichenberger U, Rosner J, Schubert M, Sutter R, et al: Deltoid muscle contribution to shoulder flexion and abduction strength: an experimental approach. *J Shoulder Elbow Surg.* 2020;10.1016/j.jse.2020.05.023.

Karargyris O, Murphy RJ, Arenas A, Bolliger L, Zumstein MA: Improved identification of unstable Rockwood type III and IV acromioclavicular joint injuries in a clinical population using a novel radiographic measurement: acromial centre line to dorsal clavicle (AC-DC). *J Shoulder Elbow Surg.* 2020 Aug;29(8):1599-1605.

Kumar N, Ramos MRD, Patel R, Tan BWL, Lopez KG, Nolan CP, Kumar A, Kumar DS, Liu G, Benneker LM: The "Spinal Metastasis Invasiveness Index": A Novel Scoring System to Assess Surgical Invasiveness. *Spine (Phila Pa 1976).* 2020 Dec 1. doi: 10.1097/BRS.0000000000003823. Epub ahead of print. PMID: 33273437.

Lerch TD, Liechti EF, Todorski IAS, Schmaranzer F, Steppacher SD, Siebenrock KA, Tannast M, Klenke FM: Prevalence of combined abnormalities of tibial and femoral torsion in patients with symptomatic hip dysplasia and femoroacetabular impingement. *Bone Joint J.* 2020 Dec;102-B(12):1636-1645. doi: 10.1302/0301-620X.102B12.BJJ-2020-0460.R1.

Lerch TD, Schmaranzer F, Hanke MS, Leibold CS, Steppacher SD, Siebenrock KA, Tannast M: Torsional deformities of the femur in patients with femoroacetabular impingement : Dynamic 3D impingement simulation can be helpful for the planning of surgical hip dislocation and hip arthroscopy. *Orthopade.* 2020 Jun;49(6):471-481. doi: 10.1007/s00132-019-03847-x.

Lerch TD, Schmaranzer F, Steppacher SD, Ziebarth K, Tannast M, Siebenrock KA: Most of patients with femoral derotation osteotomy for posterior extraarticular hip impingement and high femoral version would do surgery again. *Hip Int.* 2020 Aug;31:1120700020953100. doi: 10.1177/1120700020953100. Online ahead of print.

Lerch TD, Schwinghammer A, Schmaranzer F, Anwander H, Ecker TM, Schmid T, Weber M, Krause FG: Return to Sport and Patient Satisfaction at 5-Year Follow-up After Nonoperative Treatment for Acute Achilles Tendon Rupture. *Foot Ankle Int.* 2020 Jul;41(7):784-792. doi: 10.1177/1071100720919029. Epub 2020 Jun 16. PMID: 32543889.

Lerch TD, Siegfried M, Schmaranzer F, Leibold CS, Zurmühle C, Hanke MS, Steppacher SD, Siebenrock KA, Tannast M: Location of Intra- und Extra-articular hip impingement is different in patients with pincer-type and mixed-type femoroacetabular impingement due to acetabular retroversion or protrusio acetabuli on 3D CT-based impingement simulation. *Am J Sports Med.* 2020 Mar; 48 (3): 661-672.

Lizano-Díez X, Keel MJB, Siebenrock KA, Tey M, Bastian JD: Rehabilitation protocols in unstable trochanteric fractures treated with cephalomedullary nails in elderly: current practices and outcome. *Eur J Trauma Emerg Surg.* 2020 Dec;46(6):1267-1280. doi: 10.1007/s00068-019-01294-z.

Maniglio M, Lin CC, Flueckiger R, Zumstein MA, McGarry MH, Lee TQ: Ulnar footprints of the distal radioulnar ligaments: a detailed topographical study in 21 cadaveric wrists. *Journal of hand surgery. European volume.* 2020;45(9), S. 931-938. Sage 10.1177/1753193420944705.

May RD, Frauchiger DA, Albers CE, Hofstetter W, Gantenbein B: Exogenous Stimulation of Human Intervertebral Disc Cells in 3-Dimensional Alginate Bead Culture With BMP2 and L51P: Cytocompatibility and Effects on Cell Phenotype. *Neurospine*. 2020 Mar;17(1):77-87. doi: 10.14245/ns.2040002.001. Epub 2020 Mar 31.

May RD, Frauchiger DA, Albers CE, Tekari A, Benneker LM, Klenke FM, Hofstetter W, Gantenbein B: Application of Cytokines of the Bone Morphogenetic Protein (BMP) Family in Spinal Fusion - Effects on the Bone, Intervertebral Disc and Mesenchymal Stromal Cells. *Curr Stem Cell Res Ther*. 2019;14(8):618-643. doi: 10.2174/1574888X14666190628103528.

Merckaert S, Fontanellaz C, Christian D, Fornari ED, Tannast M: Double-plate compound osteosynthesis for pathological fractures of the proximal femur: high survivorship and low complication rate. *Archives of orthopaedic and trauma surgery*. 2020;140(10), S. 1327-1338. Springer 10.1007/s00402-019-03310-8.

Milavec H, Ravikumar N, Syn NL, Yentia Soekojo C, Chng WJ, Kumar N: Surgical Management of Multiple Myeloma With Symptomatic Involvement of the Spine. *Int J Spine Surg*. 2020 Oct;14(5):785-794. doi: 10.14444/7112. Epub 2020 Oct;23. PMID: 33097585; PMCID: PMC7671448.

Moser HL, Abraham AC, Howell K, Laudier D, Zumstein MA, Galatz LM, Huang AH: Cell lineage tracing and functional assessment of supraspinatus tendon healing in an acute repair murine model. *J Orthop Res*. 2020 Jun;10.1002/jor.24769.

Schär MO, Titan A, (both authors have contributed equally to the work), Hutchinson I, Demange M, Chen T, Rodeo S: Growth Factor Delivery to a Cartilage-Cartilage Interface Using Platelet-Rich Concentrates on a Hyaluronic Acid Scaffold. *Arthroscopy*. 2020 May;36(5):1431-1440. doi: 10.1016/j.arthro.2019.12.004.

Schmaranzer F, Haefeli PC, Liechti EF, Hanke MS, Tannast M, Büchler L: Improved Cartilage Quality on Delayed Gadolinium-Enhanced MRI of Hip Cartilage after Subchondral Drilling of Acetabular Cartilage Flaps in Femoroacetabular Impingement Surgery at Minimum 5-Year Follow-Up. *Cartilage*. 2020 Jul;19:1947603520941241.

Steppacher SD, Sedlmayer R, Tannast M, Schmaranzer F, Siebenrock KA: Surgical hip dislocation with femoral osteotomy and bone grafting prevents head collapse in hips with advanced necrosis. *Hip international*. 2020;30(4), S. 398-406. Sage 10.1177/1120700019856010.

Tinner C, Beckmann N, Bastian JD: Lateral Cortical Notching in Revision of a Subtrochanteric Fracture Non-union with Breakage of a Cephalomedullary Nail. *JOCR*. 2020 09;Vol 10 (issue 8): Page 5-8. 10.13107/jocr.2020.v10.i06.1852.

Tinner C, Deml MC: Orthopädische Kurvendiskussion. *VSAO Journal*. 2020 Oct.

Wangler S, Kamali A, Wapp C, Wuertz-Kozak K, Fortes C, Häckel S, Benneker LM, Haglund L, Richards RG, Alini M, Peroglio M, Grad S: 'Uncovering the secretome of mesenchymal stromal cells exposed to healthy, traumatic and degenerative intervertebral discs: A proteomic analysis'. *Stem Cell Research & Therapy*. 2020;DOI: 10.1186/s13287-020-02062-2.

Zhang X, Guerrero J, Croft AS, Albers CE, Häckel S, Gantenbein B: Spheroid-Like Cultures for Expanding Angiopoietin Receptor-1 (aka. Tie2) Positive Cells from the Human Intervertebral Disc. *Int J Mol Sci*. 2020 Dec;10;21(24):9423. doi: 10.3390/ijms21249423.

Originalarbeiten Kollaborationen

Abbasian M, Baghbani S, Barangi S, Fairhurst PG, Ebrahimpour A, Krause FG, Hashemi M: Outcomes of Ultrasound-Guided Gastrocnemius Injection With Botulinum Toxin for Chronic Plantar Fasciitis. *Foot Ankle Int*. 2020 Jan;41(1):63-68. doi: 10.1177/1071100719875220. Epub 2019 Oct 5. PMID: 31587569 Clinical Trial.

Bäcker HC, Vosseller JT, Bonel H, Cullmann-Bastian J, Krause FG, Attinger MC: Weightbearing Radiography and MRI Findings in Ankle Fractures. *Foot Ankle Spec.* 2020 Jun;2:1938640020921571. doi: 10.1177/1938640020921571. Online ahead of print. PMID: 32484366.

Bäcker HC, Vosseller JT, Deml MC, Perka C, Putzier M: Spinopelvic Dissociation: A Systematic Review and Meta-analysis. *J Am Acad Orthop Surg.* 2020 May;22. doi: 10.5435/JAAOS-D-19-00293. Online ahead of print. PMID: 32453011.

Bakirci E, Tschan K, May RD, Ahmad SS, Kleer B, Gantenbein B: The importance of plasmin for the healing of the anterior cruciate ligament. *Bone Joint Res.* 2020 Sep;3;9(9):543-553.

Bremer AK, Kraler L, Frauchiger L, Krause FG, Weber M: Limited Open Reduction and Internal Fixation of Calcaneal Fractures. *Foot Ankle Int.* 2020 Jan;41(1):57-62. doi: 10.1177/1071100719873273. Epub 2019 Sep 3. PMID: 31478393.

Canseco JA, Schroeder GD, Patel PD, Grasso G, Chang M, Kandziora F, Vialle EN, Oner FC, Schnake KJ, Dvorak MF, Chapman JR, Benneker LM, Rajasekaran S, Kepler CK, Vaccaro AR: AO Spine Cervical Classification Validation Group. Regional and experiential differences in surgeon preference for the treatment of cervical facet injuries: a case study survey with the AO Spine Cervical Classification Validation Group. *Eur Spine J.* 2020 Jul;22. doi: 10.1007/s00586-020-06535-z. Epub ahead of print. PMID: 32700126.

Canseco JA, Schroeder GD, Paziuk TM, Karamian BA, Kandziora F, Vialle EN, Oner FC, Schnake KJ, Dvorak MF, Chapman JR, Benneker LM, Rajasekaran S, Kepler CK, Vaccaro AR: The Subaxial Cervical AO Spine Injury Score. *Global Spine J.* 2020 Dec;11:2192568220974339. doi: 10.1177/2192568220974339. Epub ahead of print. PMID: 33302725.

De Gendt EEA, Vercoulen TFG, Joaquim AF, Guo W, Vialle EN, Schroeder GD, Schnake KS, Vaccaro AR, Benneker LM, Muijs SPJ, Oner FC: The Current Status of Spinal Posttraumatic Deformity: A Systematic Review. *Global Spine J.* 2020 Dec;7:2192568220969153. doi: 10.1177/2192568220969153. Epub ahead of print. PMID: 33280414.

Du J, Long RG, Nakai T, Sakai D, Benneker LM, Zhou G, Li B, Eglin D, Iatridis JC, Alini M, Grad S, Li Z: Functional cell phenotype induction with TGF- β 1 and collagen-polyurethane scaffold for annulus fibrosus rupture repair. *Eur Cell Mater.* 2020 Jan;3;39:1-17.

Du J, Pfannkuche JJ, Lang G, Häckel S, Creemers LB, Alini M, Grad S, Li Z: 'Proinflammatory intervertebral disc cell and organ culture models induced by tumor necrosis factor alpha'. *JOR Spine.* 2020 Jun.

Guerrero J, Häckel S, Croft AS, Albers CE, Gantenbein B: 'The effects of 3D culture on the expansion and maintenance of nucleus pulposus progenitor cell multipotency'. *JOR Spine.* 2020 Nov.

Halm S, Fairhurst PG, Tschanz S, Fluri A, Wieland M, Djonov V, Krause FG: Effect of Lateral Sliding Calcaneus Osteotomy on Tarsal Tunnel Pressure. *Foot Ankle Orthopaedics.* 2020;5:1-8.

Huang H, Wu G, Hunziker E: The clinical significance of implant stability quotient (ISQ) measurements: A literature review. *Journal of oral biology and craniofacial research.* 2020;10(4), S. 629-638. Elsevier 10.1016/j.jobcr.2020.07.004.

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Krueger DR, Guenther KP, Deml MC, Perka C: Mechanical failure of 113 uncemented modular revision femoral components. *Bone Joint J.* 2020 May;102-B(5):573-579. doi: 10.1302/0301-620X.102B5.BJJ-2019-1333.R2. PMID: 32349597.

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Häckel S, Häne SI, Ma J, Grad S, Pfannkuche JJ, Li Z, Kamali A, Soubrier A, Hoppe S, Albers CE, Lang G, Peroglio M: Celecoxib for Discogenic Pain? – An in vitro Study with Inflamed Human Intervertebral Disc Cells. German Spine Society (DWG), Meeting, 12/2020.

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Vorträge

Benneker LM: Complication Prevention by Use of Intraoperative Checklists. AO Spine Advanced Webinar, 13.05.2020.

Benneker LM: Corpectomy and Stabilization Techniques in Thoracolumbar Spine Tumor Treatment. Icotec Webinar, 13.10.2020.

Benneker LM: Corpectomy and Stabilization Techniques in Thoracolumbar Spine Tumor Treatment. Icotec Webinar, 19.10.2020.

Benneker LM: Current Role and Timing of Vertebroplasty in the Management of oVCF in the Era of Teraparatide. Virtual Annual Congress of the Indian Spine Society, 19.09.2020.

Benneker LM: Etiology of Sagittal Imbalance. AOSpine Advanced Level Specimen Course – Posterior Correction of Adult Deformities, Tampere, Finland, 30.-31.01.2020.

Benneker LM: Keynote lecture: strategies in spinal neoplasia surgery. International Spine Symposium, Focus Tumor and Metastasis, Bern, Switzerland, 24.-25.01.2020.

Benneker LM: Konservative Frakturbehandlung – Was heisst das genau? Forum Wirbelsäulenchirurgie, St Anton am Arlberg, 16.-18.01.2020.

Benneker LM: Metastatic Spinal Cord Compression. AO Spine Advanced Webinar, 26.08.2020.

Benneker LM: Osteoporotic Fractures, Battle of the Experts – Pro instrumentation. AOSpine Principles Webinar, 05.12.2020.

Benneker LM: Surface Modification of Spinal Implants. Icotec Webinar, 17.11.2020.

Croft AS, Guerrero J, Oswald KAC, Häckel S, Albers CE, Gantenbein B: Trilineage potency of human nucleus pulposus cells before and after cryopreservation. 15th Annual Meeting, Swiss Stem Cell Network (SSCN) & Bern Center of Precision Medicine, 11.12.2020.

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Flückiger R: OE-Repetition, Schlusskurs, Studium Humanmedizin. 12.03.2020.

Gantenbein B: Translational Research in Orthopedics, CSL Behring, Lunch Seminar, Bern, Switzerland 08.10.2020.

Guerrero J: Mimicking the Intervertebral Disc Microenvironment for Expansion of Nucleus Pulposus Progenitor Cells in a Context of Cell Therapy. Series of StemCells Bern Platform, Lunch Seminar, Switzerland, 10.03.2020.

Häckel S, Hane S, Ma J, Grad S, Pfannkuche JJ, Li Z, Kamali A, Soubrier A, Hoppe S, Albers CE, Lang G, Peroglio M: Celecoxib for Discogenic Pain? – An in vitro Study with Inflamed Human Intervertebral Disc Cells. German Spine Society (DWG), Meeting, 12/2020.

Hanke MS: Black or white - Systematische Beurteilung des konventionellen Röntgenbildes. Pre-Course for Residents, Bernese Hip Symposium 2020, Bern, Switzerland, 26.02.2020.

Hanke MS: Do High Impact Sport Promote Proximal Femoral Pathomorphology During The Growth Spurt? – Results Of A Longitudinal Prospective Study. 80th annual e-meeting swiss orthopaedics 2020, Switzerland, 27.08.2020.

Hanke MS: Do High Impact Sport Promote Proximal Femoral Pathomorphology During The Growth Spurt? – Results Of A Longitudinal Prospective Study. 1st Virtuel EFORT Congress, 28.-31.10.2020.

Hanke MS: Transfer Of Osteochondral Shell Autografts To Salvage Femoral Head Impaction Injuries In Hip Trauma Patients. 1st Virtuel EFORT Congress, 28.-31.10.2020.

Klenke FM: Kniearthrose, Webinar, Ortho-Team AG, Bern, 01.10.2020.

Klenke FM: Operationsindikationen an Knie und Hüfte – Ist die Sicht des Chirurgen gleich wie die des Hausarztes? Diagnostisches Therapeutisches Seminar, Universitätsklinik und Poliklinik für Allgemeine Innere Medizin, Inselspital Bern, 03. September, 2020.

Krause FG: 1. Traumatized Os tibiale externum, 2. Lisfranc injury. EFAS virtual congress, 23.-24.10.2020.

Krause FG: Clinical test and weightbearing radiographs for evaluation of stability. EFAS Webinar (virtuell), 20.05.2020.

Krause FG: Korrekturosteotomien fehlverheilter Malleolarfrakturen. 19. Deutscher AO Trauma-Fusskurs (virtuell), Dresden, 8.-9.10.2020.

Krause FG: Limited open reduction and internal fixation of displaced fractures of the calcaneus. AOFAS at home (virtuell), 17.10.2020.

Krause FG: Osteochondral defect repair considering ankle stability and hindfoot alignment. ICRS Knee&Ankle course, Wroclaw, Poland (virtuell), 8.-9.10.2020.

Krause FG: Stellenwert gehaltener Aufnahmen in der Diagnostik der Sprunggelenksinstabilität. AGAnywhere (virtuell), 17.-19.09.2020.

Krause FG: TPD – Der erworbene Plattfuss des Erwachsenen Stadium III. DAF Masterkurs, Komplikationen, Düsseldorf, 31.01.2020.

Krause FG: Umstellungsosteotomie supramalleolär und am Calcaneus. AGA Akademie, Innsbruck, 28.-29. Feb, 2020.

Lerch TD, Schmaranzer F, Todorski IAS, Hanke MS, Leibold CS, Steppacher SD, Siebenrock KA, Tannast M: Patients with pincer FAI due to protrusio acetabuli or acetabular retroversion have intra- and extra-articular anterior subspine hip impingement on a 3D-CT-based impingement simulation. ECR European Congress of Radiology, Session RPS 1010b - Hip, pelvis and lower extremity, Vienna, 07/2020.

Lerch TD, Zeng G, Schmaranzer F, Gerber N, Siebenrock KA, Tannast M: Computer-assisted diagnosis of hip dysplasia and femoroacetabular impingement FAI using automatic reconstruction of MRI-based 3D models of the hip joint: a deep learning-based study. European Congress of Radiology, ECR, RPS 1010a, Vienna, 2020.

Lerch TD: What to do torsion. Hip Symposium, Precourse, Bern, 26.02.2020.

Schär MO: Anteroinferior glenohumeral instability: Different procedures for different athletes? Swiss Orthopedics E-Kongress 2020, Basel, Schweiz, 27.08.2020.

Steppacher SD: Therapie von Torsions- und Versionspathologien sowie Pincer-Deformitäten – Lohnt sich der grosse chirurgische Aufwand? AGAnywhere 2020 - Konservative Therapie oder gelenkerhaltende Chirurgie bei initialer Coxarthrose, Webinar, 18.09.2020.

Wangler S, Kamali A, Wapp C, Wuertz-Kozak K, Fortes C, Häckel S, Benneker LM, Haglund L, Richards RG, Alini M, Peroglio M, Grad S: Proteomic profile of mesenchymal stromal cell secretome in response to degenerative intervertebral disc: Implications for cell-free regenerative treatment. ISSLS conference/Spine Week, 05/2020, Conference cancelled due to COVID-19.

Wangler S: Homing of Mesenchymal Stem Cells Enhances Tie2+ Progenitor Cells and Induces a Proliferative Response in Intervertebral Disc Organ Culture. SWISS Orthopediscs 2020.

Wangler S: Mesenchymal stem cell secretome as a potential cell free therapy for early intervertebral disc degeneration. SWISS Orthopediscs 2020.

Organisation Kurse/Symposien

Benneker LM

International Spine Symposium Bern, Focus Tumor and Metastasis, Bern, Switzerland, 24.-25.01.2020.

Gantenbein B

Organisationskommittee des Schweizerischen Stammzellen Meeting (SSCN) in Bern, 11.12.2020.

Fakultät bei Kursen/Symposien

Bastian JD

Trochanteric flip and hip dislocation, Pelvic & Acetabular Course, Universitätsspital Zürich USZ, Zürich, Switzerland, 17.-18.01.2020.

Bastian JD

MRP Modular Hip-Revision-Stem: Challenging indications in hip-surgery, Pelvic & Acetabular Course, Universitätsspital Zürich USZ, Zürich, Switzerland 17.-18.01.2020.

Bastian JD, Keel MJB

Pararectus Approach for Acetabular Fractures, AO Trauma Webinar, Dübendorf, Switzerland, 17.08.2020.

Benneker LM

Forum Wirbelsäulen Chirurgie, St Anton am Arlberg, 16.-18.01.2020.

Benneker LM

AOSpine Advanced Level Specimen Course – Posterior Correction of Adult Deformities. Tampere, Finland, 30.-31.01.2020.

Klenke FM

Workshop, Interaktive Fallvorstellungen, Diagnostisches Therapeutisches Seminar, Universitätsklinik und Poliklinik für Allgemeine Innere Medizin, Inselspital Bern, 03.09.2020.

Krause FG

AGA Akademie, Innsbruck, 28./29.02.2020.

Instruktor bei Kursen/Symposien

Benneker LM

AOSpine Advanced Level Specimen Course – Posterior Correction of Adult Deformities, Tampere, Finland, 30.-31.01.2020.

Krause FG

AGA Akademie, Innsbruck, 28./29.02.2020.

Abstracts

Ambühl D, Lerch TD, Schmaranzer F, Zeng G, Tannast M, Siebenrock KA: Automatic Segmentation of MRI-based 3D Models of the Hip Joint for Computer-Assisted Diagnosis of Femoroacetabular Impingement. SGO 2020, Schweizerische Gesellschaft für Orthopädie, Swiss Orthopedics, online congress, 27.08.2020.

Boschung A, Lerch TD, Schmaranzer F, Todorski IAS, Siebenrock KA, Tannast M: Anterior extraarticular subspine Hip Impingement can be caused by femoral retrotorsion and pincer-FAI -3D CT analysis. SGO 2020, Schweizerische Gesellschaft für Orthopädie, Swiss Orthopedics, online congress, 27.08.2020.

Deml MC, Manser P, Benneker LM, Aebersold D, Hemmatazad H, Terribilini D, Klippel N.: Einfluss von Titan vs. Carbon-PEEK Implantaten auf die postoperative Photonen-Bestrahlungstherapie nach Tumor-Wirbelsäulen Chirurgie - Eine präklinische Phantom-Modell-Studie. DKOU 2020, Berlin/Online, Z Orthop Unfall 10/2020; 158(S 01): S264. DOI: 10.1055/s-0040-1717646.

Häckel S, Hofmann E, Basedow J, Bigdon SF, Anwander H, Albers CE, Dunn R, Maqungo S, Keel MJB, Exadaktylos A, Hoppe S: Full-Body Digital X-Ray (LODOX-Statscan) has a Poor Diagnostic Accuracy in Detecting Spine Injuries in Polytraumatized Patients. Swiss medical weekly, EMH Swiss medical publishers Ltd, 31.07.2020, Seiten S16-S17.

Hartmann E, Safari F, Siegrist M, Dolder S, Hofstetter W, Klenke FM: A novel function of Noggin as a regulator of bone remodelling. Swiss Orthopaedics 2020.

Jung BA, Afacan O, Lerch TD, Kim YJ, Kober T, Ith M, Klarhoefer M, Schmaranzer F: MP2RAGE improves robustness of 3D T1-Mapping of Hip Cartilage compared to Conventional Dual-Flip-Angle Acquisition. ISMRM 2020, Virtual Conference & Exhibition, online congress, 08.-14.08.2020; Source: https://www.ismrm.org/20/program_files/DP04-02.htm.

Kurze C, Klenke FM: Free vascularized fibula transfers in tumor surgery. E-Congress SGOT, 2020.

Kurze C, Krause FG: Hindfootnailing in failed surgery and fracture management. E-Congress SGOT, 2020.

Lerch TD, Boschung A, Leibold CS, Hanke MS, Kalla R, Eichelberger P, Baur H, Tannast M, Siebenrock KA: Less In-Toeing And High Subjective Satisfaction At Followup In Patients With Posterior FAI Undergoing Femoral Derotation Osteotomy To Correct High Femoral Torsion- Gait Analysis Study. EFORT 2020 (European Federation of National Associations of Orthopaedics and Traumatology), Virtual EFORT Congress, 26.-30.10.2020.

Lerch TD, Boschung A, Leibold CS, Hanke MS, Steppacher SD, Ziebarth K, Kalla R, Baur H, Eichelberger P, Tannast M, Siebenrock KA: Normal Gait And Normal Hip Function At Longterm Followup In Severe SCFE Patients Treated With A Modified Dunn Procedure- Gait Analysis Study. EFORT 2020 (European Federation of National Associations of Orthopaedics and Traumatology), Virtual EFORT Congress, 26.-30.10.2020.

Lerch TD, Schmaranzer F, Todorski IAS, Hanke MS, Leibold CS, Steppacher SD, Siebenrock KA, Tannast M: Patients with pincer FAI due to protrusio acetabuli or acetabular retroversion have intra- and extra-articular anterior subspine hip impingement on a 3D-CT-based impingement simulation. In: ECR 2020, Vienna, Session RPS 1010b - Hip, pelvis and lower extremity. ECR (European Congress of Radiology) Vienna, 07/2020.

Lerch TD, Zeng G, Schmaranzer F, Boschung A, Gerber N, Siebenrock KA, Tannast M: Fast automatic Bone segmentation using machine learning for MRI-based Dynamic 3D Hip Impingement Simulation based on T1 VIBE DIXON of the Pelvis in routine MRI. RSNA 2020 (Radiological Society of North America), Chicago, USA, online congress, 29.11.-05.12.2020.

Lerch TD, Zeng G, Schmaranzer F, Gerber N, Siebenrock KA, Tannast M: Computer-assisted diagnosis of hip dysplasia and femoroacetabular impingement FAI using automatic reconstruction of MRI-based 3D models of the hip joint: a deep learning-based study. RPS 1010a, European Congress of Radiology, ECR 2020, Vienna.

Lerch TD; Schmaranzer F, Boschung A, Zeng G, Gerber N, Siebenrock KA, Tannast M: Valgus and Increased Acetabular Version can aggravate posterior extraarticular ischiofemoral Femoroacetabular Impingement in patients with increased femoral version in dynamic impingement simulation. RSNA 2020 (Radiological Society of North America), Chicago, USA, online congress, 29.11.-05.12.2020.

Maniglio M, Lin C, Flueckiger R, Zumstein M, McGarry MH, Lee TQ: Ulnar footprints of the distal radioulnar ligaments: a detailed topographical study in 21 cadaveric wrists. J Hand Surg Eur Vol., 11/2020; 45(9):931-938. doi: 10.1177/1753193420944705. Epub 2020 Jul 27. PMID: 32720848.

Moser HL, Abraham A, Zumstein MA, Galatz LM, Huang AH: Genetic Lineage Tracing of targeted cells and evaluation of different outcome measurements after full detachment and repair of the supraspinatus tendon. AAOS 2020 Annual Meeting.

Schürholz K, Liechti EF, Kohl S, Ahmad A, Klenke FM: Collagen wrapping and local PRF do not improve the survival rates of ACL repair with dynamic intraligamentary stabilization. A retrospective study with a minimum follow-up of 5-years. Swiss Orthopaedics, 2020.

Stetzelberger V, Steppacher SD, Lerch TD, Siebenrock KA, Tannast M: A Reduced Coverage of the Anterior Acetabular Wall Is Associated with Higher Conversion Rates to Total Hip Arthroplasty in Patients after Periacetabular Osteotomy. SGO 2020, online congress, 27.08.2020.

Wangler S: Homing of Mesenchymal Stem Cells Enhances Tie2+ Progenitor Cells and Induces a Proliferative Response in Intervertebral Disc Organ Culture. SWISS Orthopediscs 2020.

Wangler S: Mesenchymal stem cell secretome as a potential cell free therapy for early intervertebral disc degeneration. SWISS Orthopediscs 2020.

Zwingelstein S, Lerch TD, Schmaranzer F, Maranhão D, Tannast M, Kim YJ, Siebenrock KA, Novais E: Location of Hip impingement for Patients with Severe SCFE – 3D-CT impingement simulation study. SGO 2020, Schweizerische Gesellschaft für Orthopädie, Swiss Orthopedics, online congress, 27.08.2020.

Vorsitz/Rundtischdiskussion bei Kursen/Symposien

Hoppe S

AO Spine Advanced Webinar—Reducing complication rates in your department. Non-technical skills for surgeons, 15.05.2020.

Schuster A, Klenke FM

Roundtable. Patella tracking in TKA. Johnson & Johnson AG, Zürich, 09.01.2020.

Zusätzliche Lehrleistungen

Anwander H

Klinischer Dozent: Biomedical engineering: Fuss und Sprunggelenk, Februar 2020. 1 Lehrstunde.

Bigdon SF

Klinischer Dozent: Pathologien der Lendenwirbelsäule, Berner Fachhochschule, Masterstudiengang Physiotherapie, 19.11.2020. 4 Lehrstunden.

Bigdon, SF

Klinischer Dozent: Pathologien der Halswirbelsäule, Berner Fachhochschule, Masterstudiengang Physiotherapie, 26.11.2020. 4 Lehrstunden.

Hoppe S

Physiotherapievorlesung: 2. Semester Wirbelsäulenchirurgie.

Künzler MB

Dozent: Sportbiologie und Sportmedizin: Sportorthopädie, Universität Bern, Bachelorstudium ISPW, 04.11.2020. 2 Lehrstunden.

Milavec H

Modulleiterin: Clinical Skills Training Orthopädie.

Milavec H

Orthopädischer Untersuchungskurs in den Kaderkursen für Militärärzte (Med OS), Kaserne Moudon.

Tinner C

Klinischer Dozent: Ringvorlesung Sportbiologie / Sportmedizin, Universität Bern, Sport, 04.11.2020. 0.5 Lehrstunden.

Wangler S

Anatomie / Histologie (Vorlesungen) - SciV2 - Bewegungsapparat: Ergänzungsvorlesung: SciBased VL Stammzellen, Hörsaal 001, UniAlhambra, 11:30-12:15 h, 28.02.2020. 451159-FS2020-0.

Wangler S, Tinner C, Künzler MB

Ringvorlesung: Sportbiologie / Sportmedizin HS202.

Habilitationen

PD Dr. med. Christoph Albers

PD Dr. med. Philipp Henle

Stipendien

Corluka S, Künzler MB, Schär MO (MD-PhD vom 01.01.-31.12.2020)

Hans Neuenschwander Fonds, Inselspital Bern

Development of a Bioreactor Model and Assessment of PARP-1 Inhibition for Biologic Augmentation of Rotator Cuff Tear Healing

CHF 69'000

Häckel S

Universität Bern

COMET – 'Coaching, Mentoring and Training for Women' Career Programme for female researchers (2020 – 2021)

CHF 3'000

Lerch TD

SNF Schweizerischer Nationalfonds

3D MRI based automatic segmentation of 3D models of the hip joint for patient-specific diagnosis and improved surgical outcome for children with Slipped capital femoral epiphysis and Femoroacetabular Impingement. Early Postdoc.Mobility

(Dauer 2021)

CHF 51'000

Liechti EF

Stiftung Stipendienfonds swiss orthopaedics (Fortbildungsstipendium für Aufenthalt von 01.10.2020–30.09.2021)

Clinical and Research Fellowship at the Helios ENDO-Clinic Hamburg, with Focus on Management of Periprosthetic Joint Infection

CHF 50'000

Liechti EF

Hans Neuenschwander Fonds, Inselspital Bern (Fortbildungsstipendium für Aufenthalt von 01.10.2020–30.09.2021)

Clinical and Research Fellowship at the Helios ENDO-Clinic Hamburg, with Focus on Management of Periprosthetic Joint Infection

CHF 50'000

Liechti EF

LINKademy, Waldemar Link GmbH & Co. KG, Hamburg

Orthopedic Joint Reconstruction Research Fellowship

(für Aufenthalt von 01.10.2020–30.09.2021)

ca. CHF 8'000.– (definitiver Betrag erst 2021 bekannt)

Masterarbeiten

Amrein Pascale

Sensitivity and Specificity of Imaging of the cervical spine.

Leitung: Dr. med. Sebastian Bigdon, Prof. Dr. med. Lorin Benneker, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020

Corluka Slavko

Die Rolle von PARP-1 in Rotatorenmanschettenrupturen.

Leitung: Dr. med. Michael Künzler, Dr. med. Michael Schär, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020

Graf Selianne

The Secretion of BMP Antagonists by Human Intervertebral Disc Cells and their Relevance for Successful Spinal Fusion.

Leitung: Prof. Dr. phil. na Benjamin Gantenbein, Biomedical Sciences, Medical Faculty, University of Bern, 2020

Harte Johannes

Impact on early return to sports on reinjury

Leitung: Dr. med. Sebastian Bigdon, Prof. Dr. med. Aristomenis Exadaktylos, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020

Jülke Erik

Digitalisierung der Lehre: Videos zur Untersuchung des Bewegungsapparats.

Leitung: Dr. med. Sebastian Bigdon, Prof. Dr. med. Lorin Benneker, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020

Shaun Croft Andreas

Trilineage Potency of Human Nucleus Pulposus Cells before and after Cryo-Preservation.

Leitung: Prof. Dr. phil. na Benjamin Gantenbein, Biomedical Sciences, Medical Faculty, University of Bern, 2020

Dissertationen

Adam Boschung

Femoroacetabular Impingement Patients With Decreased Femoral Version Have Different Impingement Locations and Intra- and Extraarticular Anterior Subspine FAI on 3D-CT-Based Impingement Simulation: Implications for Hip Arthroscopy.

Leitung: Prof. Dr. med. Klaus Siebenrock, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern.

Celia Degonda

Patient-Specific 3-D Magnetic Resonance Imaging-Based Dynamic Simulation of Hip Impingement and Range of Motion Can Replace 3-D Computed Tomography-Based Simulation for Patients With Femoroacetabular Impingement: Implications for Planning Open Hip Preservation Surgery and Hip Arthroscopy.

Leitung: Prof. Dr. med. Klaus Siebenrock, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern.

Fuhrer, Fabian

Muscle fat content in the intact infraspinatus muscle correlates with age and BMI, but not critical shoulder angle.

Leitung: Prof. Dr. med. Matthias Zumstein, Betreuerin: Helen Anwander, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020.

Mathias Siegfried

Location of Intra- and Extra-articular Hip Impingement Is Different in Patients With Pincer-Type and Mixed-Type Femoroacetabular Impingement Due to Acetabular Retroversion or Protrusio Acetabuli on 3D CT-Based Impingement Simulation.

Leitung: Prof. Dr. med. Klaus Siebenrock, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern.

Sonja Häckel

Fibrin-hyaluronic acid hydrogel and Fibroblast Growth Factor-18 for Intervertebral Disc Regeneration: an in vitro study on bovine and human nucleus pulposus cells.

Leitung: PD Dr. med. Sven Hoppe, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020.

Stephanie Erdbrink

Implantation of a wrist spanning plate for complex distal radius fractures – A prospective observational study.

Leitung: Dr. med. Remy Flückiger, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, 2020.

Fortlaufende Liste der Ernennungen ab 2005

Professuren

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

SNF Förderungsprofessur

2013	Prof. Dr. med. Moritz Tannast
------	-------------------------------

Habilitationen

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