

Jahresbericht 2013

UNIVERSITÄTSKLINIK FÜR ORTHOPÄDISCHE CHIRURGIE
INSELSPITAL BERN

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Personelles

Funktion	Name	Fachbereich
Klinikdirektor und Chefarzt	Prof. Dr. K.-A. Siebenrock	
Teamleiter	Prof. Dr. K.-A. Siebenrock Prof. Dr. M. Keel Dr. S. Kohl Dr. U. Seidel PD Dr. M. Zumstein Dr. F. Krause	Hüfte, Becken, Tumorchirurgie Wirbelsäule, Stv. Chefarzt Knie und Sportverletzungen Wirbelsäule Obere Extremitäten Sprunggelenk und Fuss
Oberärzte	PD Dr. L. Benneker Dr. L. Büchler PD Dr. F. Klenke Dr. T. Schmid Dr. H.-J. Sebald PD Dr. M. Tannast Dr. T. Ecker Dr. B. Moor	
Assistenzärzte	Dr. C. Albers Dr. A. Ansorge Dr. J. Bastian Dr. T. Cordier Dr. J. Gebel Dr. M. Hitz Dr. T. Hetling Dr. S. Hoppe Dr. A. Kastius Dr. B. Kleer Dr. S. Kohl Dr. Ch. Kurze Dr. L. Kraler Dr. J. Martin Dr. F. Paradies Dr. C. Rönn Dr. J. Rudez Dr. F. Rutner Dr. A. Stock Dr. S. Schwienbacher Dr. M. Schober (bis 31.03.2013) Dr. S. Steppacher Dr. S. Tomagra Dr. R. Waibel Dr. J. Weihs	

Funktion	Name	Fachbereich
Wissenschaftliche Assistenzärzte und Mitarbeiter	Dr. T.C. Mamisch Dr. P. Haefeli Dr. H. Anwander Dr. M. Schär	
	Prof. Dr. E.-B. Hunziker Teamleiter	Zentrum für Regenerative Medizin der Skeletalen Gewebe
	PD Dr. D. Nesic, Teamleiterin	Knochenbiologie&Orthopädische Forschung
Fellow	Dr. M. Attinger	

Sekretariat Direktor	M. Gempeler	
Leiterin Administration/Stv. Direktionsassistentin	D. Lüthi	
Pflegeleitung OPS	R. Milibach	
Pflegeleitung Klinik	G. Clémenton	
Medizinische Dokumentarin	S. Schmutz	

Forschung und Lehre

Preise/Ehrungen

Schmid T, Zurbriggen S, Zderic I, Gueorguiev B, Weber M, *Krause FG*. Ankle joint pressure changes in a pes cavovarus model: supramalleolar valgus osteotomy versus lateralizing calcaneal osteotomy. IFFAS Award: Best International Paper 2013.

Tannast M: Maurice E. Müller Award for the best paper in basic science.
Swiss Society for Orthopaedic Surgery, Lausanne, June 26-28, 2013

Drittmittel

AO Spine Int.

Ferguson S, *Benneker LM*

Biomechanical determination of target properties for an annulus repair implant – Extension

Betrag: CHF 189'000.-

Dauer: 2013-2016

AO Foundation, Davos, Switzerland, Start-Up Grant Nr. S-11-96N

Nesic D, *Zumstein M*

S100 as a cellular marker for chondrogenicity of human articular chondrocytes.

Betrag: CHF 120'000.-

Dauer: 2012-2013

Center for Applied Biotechnology and Molecular Medicine CABMM

Von Rechenberg B, *Kohlhof H*, Liesegang A, Santoro R, Hofmann-Lehmann R

Monitoring osteomyelitis by biomarkers following systemic inflammation parameters.

Betrag: CHF: 38.790.-

Dauer: 2012-2013

Forschungsgrant für Nachwuchsforschende des Inselspitals

Ecker T

Betrag: CHF 80'000.-

Dauer: 2013

Inselspital Bern, Multiprojektmanagement (MPM) DOPH 2012 101

„Entwicklung einer webbasierten Datenbank „BSD“ (Bernese Spine Database) zur Erfassung, Auswertung und Analyse des Neurostatus von Wirbelsäulen-Patienten“

Hoppe, Kohlhof, Tomagra, Benneker, Seidel

Betrag: CHF 75'000.-

Dauer: 2012-2013

ITI Foundation, Basel, Grant Nr. 727 2010

Klenke FM, Hofstetter W

Biofunctionalization of calcium phosphate ceramics for the repair of osseous jaw defects

Betrag: CHF 170'068.-

Dauer 2010-2013

Kommission für Technologie und Innovation KTI, Förderagentur für Innovation, Eidgenössisches Volkswirtschaftsdepartement EVD, KTI-Nr. 14081.2 PFLS-LS

Kohlhof H, Kohl S, Keel M

Umsetzpartner: Bosshard A, Ortho-Team AG Bern

Pelvic-Spider: Entwicklung eines neuen dynamischen Becken-Kompressionsgurtes zur initialen Versorgung von Frakturen des Beckens

Betrag: CHF 394'350.-

Dauer: 2012

KTIP-Nr: 13880.1

Kohl S

„LigaFusion“ Implantat zur Heilungsunterstützung eines gerissenen menschlichen Ligaments

Betrag: CHF 1'397'400.-

Dauer: 2012-2015

Mathys AG, Bettlach

Zumstein M

Arthroscopic transosseous Rotator Cuff Tool

Betrag: CHF: 25'000.-

Dauer: 2012- 2013

National Center of Competence in Research Co-Me „Computer-aided and Image-guided Medical Interventions“, Schweizerischer Nationalfonds

Tannast M, Büchler P, Weber S, Reyes M, Zheng G, Székely G, Vetter T, Pfahrer M, Thali M
Virtual Skeletal Database

Betrag: CHF 247'000.-

Dauer: 2009–2013

Osteology Foundation, Luzern, Grand-Nr. 11-019

Hunziker EB

Osteogenic functionalization of collagenous membranes and their time-controlled degradation

Betrag: CHF 100'000.-

Dauer: 2012-2014

3R Research Foundation, Münsingen Grang-NR. 130/11

Hunziker EB

Establishment of an invitro organ-slice defect model for meniscal repair in orthopaedic research

Betrag: CHF 89'980.-

Dauer: 2012-2014

Neuenschwander Stiftung, Bern, Switzerland

Zumstein MA

The Role of PARP1/ARTD1 in Rotator Cuff Tears: An Experimental Study in Knock Out Mice

Betrag: CHF 90'000.- (as a Co-Author and PI)

Dauer: 2013 -

Schweizerische Gesellschaft für Orthopädie und traumatologie des Bewegungsapparates

Büchler L, Beck M

Langzeit-Beobachtung des Hüftgelenk-Knorpels nach chirurgischer Hüftluxation bei Patienten mit femoroacetabulären Impingement mittels MRI

Betrag: CHF 20'000.-

Dauer: 2012-2014

Schweizer Gesellschaft für Orthopädie und Traumatologie, SGOT

Krause F, Espinosa N

Changes in ankle joint pressure after proximal tibial and distal femoral corrective osteotomies

Betrag: CHF 25'000.-

Dauer: 2012-2013

SGOT Forschungsstipendium

Zumstein MA

“The Role of PARP1/ARTD1 in Rotator Cuff Tears: An Experimental Study in Knock Out Mice”

Betrag: CHF 50'000.- (as Coauthor and PI)

Dauer: 2013 –

Swiss Foot Ankle Society, SFAS

Krause F, Espinosa N

Changes in ankle joint pressure after proximal tibial and distal femoral corrective osteotomies

Betrag: CHF 10'000.-

Dauer: 2012-2013

Swiss National Science Foundation (SNF), Bern, Switzerland.

Klenke FM, Hofstetter W

Biofunctionalization of β -TCP ceramics for the repair of osseous defects.

Betrag: CHF 250'000.-

Dauer: 2011-2014

SNF (Swiss National Science Foundation)

Schaer M, Zumstein MA

Stipendium für angehende Forschende, Bone Marrow-derived Mesenchymal Stem Cells Transduced with Scleraxis Bred under Loaded Conditions Improve Rotator Cuff Healing in a Mouse Model

Betrag: CHF 62'400.-

Dauer: 2012-2013

Schweizerischer Nationalfonds SNF

Zysset P, Benneker LM, Gantenbein B, Vermathen P

Biomechanical evaluation of the degenerating intervertebral disk using MRI-based finite element analysis

Betrag: CHF 262'960.-

Dauer: 2013-2016

SNF grant 320030_135627

Mamisch TC, Siebenrock KA

Delayed gadolinium-enhanced magnetic resonance imaging of cartilage (dGEMRIC) to assess outcome of treatment for femoro-acetabular impingement (FAI)

Betrag: CHF: 215'101.-

Dauer: 2012-

Swiss Society of Orthopaedic Surgery and Traumatology, CH:

Zumstein MA

Bone Marrow-derived mesenchymal Stem Cells Transduced with Scleraxis Bred under Loaded Conditions Improve Rotator Cuff Healing in a Mouse Model.

Betrag: CHF 50'000.-

Dauer: 2012-2013

Swiss National Science Professorship on Femoroacetabular impingement – from an experimental sheep model to patient care

Tannast M

Betrag: CHF 1'164'517.-

Dauer: 2013

SUVA Foundation Schweiz

Kohl S

Evaluation der Kniefunktion nach dynamischer Intraligamentärer Stabilisierung (DIS)

Betrag: CHF 150'000.-

Dauer: 2013

Ahmad SS, Huber K, Evangelopoulos DS, Kleer B, *Kohlhof H*, Schär M, Eggli S, *Kohl S*
The cement prosthesis-like spacer: an intermediate halt on the road to healing.
ScientificWorldJournal. 2013 Sep 30;2013:763434. **(IF 1.730)**

Albers CE, Hofstetter W, *Siebenrock KA*, Landmann R, *Klenke FM*: vitro cytotoxicity of silver nanoparticles on osteoblasts and osteoclasts at antibacterial concentrations. Nanotoxicology. 2013 Feb;7(1):30-6. **(IF 7.844 / MR 0.976)**

Albers CE, *Haefeli PC*, Zimmermann H, de Moya M, Exadaktylos AK: Can handheld micropower impulse radar technology be used to detect pneumothorax? Initial experience in a European trauma centre. Injury 2013 May;44(5):650-4. **(IF 2.174 / MR 0.833)**

Albers CE, *Steppacher SD*, Ganz R, *Tannast M*, *Siebenrock KA*: Impingement adversely affects 10-year survivorship after periacetabular osteotomy for DDH. Clin Orthop Relat Res. 2013 May;471(5):1602-14. **(IF 2.787 /MR 0.891)**

Albers CE, von Allmen M, Evangelopoulos DS, Zisakis AK, Zimmermann H, Exadaktylos AK: What is the incidence of intracranial bleeding in patients with mild traumatic brain injury? A retrospective study in 3088 Canadian CT head rule patients. Biomed Res Int. 2013;2013:453978. **(IF 2.880)**

Bain GI, Alexander JJ, Eng K, Durrant A, *Zumstein MA*: Ligament Origins are Preserved in Distal Radius Intraarticular Two-Part Fractures: A Computed Tomography based Study. J Wrist Surg, 2013 Aug;2(3):255-62.

Bastian JD, *Tannast M*, *Siebenrock KA*, *Keel MJ*: Mid-term results in relation to age and analysis of predictive factors after fixation of acetabular fractures using the modified Stoppa approach. Injury. 2013 Dec;44(12):1793-8. **(IF 2.174 / MR 0.833)**

Bastian JD, Butscher A, Bigolin G, *Zumstein MA*, Nötzli HP. Extracortical plate fixation with new plate inserts and cerclage wires for the treatment of periprosthetic hip fractures. Int. Orthopaedics, 2013 March;38(3):498-494. **(IF 2.319)**

Benneker LM, *Hoppe S*: „Percutaneous cement augmentation techniques for osteoporotic spinal fractures“ Eur J Trauma Emerg Surg (2013) 39:445-453. **(IF 0.263 / MR 0.167)**

Büchler L, Neumann M, Schwab J. M, Iselin L, *Tannast M*, Beck M: Arthroscopic versus open cam resection in the treatment of femoroacetabular impingement. Arthroscopy. 2013 Apr;29(4):653-60. **(IF 3.103 / MR 0.938)**

Diel P, Röder C, Perler G, Vordemvenne T, Scholz M, Kandziora F, Fürderer S, Eiskjaer S, Maestraetti G, Rotter R, *Benneker LM*, Heini PF : Radiographic and safety details of vertebral body stenting: results from a multicenter chart review. BMC Musculoskelet Disord. 2013 Aug 8;14(1):233. **(IF 1.875 / MR 0.641)**

Hofstetter W, Sehr H, Portenier J, DeWild M, Gobrecht J, *Hunziker EB*: Modulation of human osteoblasts by metal surface chemistry, J Biomed Mat Res A. 2013 Aug;101(8):2355-64. Doi: 10.1002/jbm.a.34541. **(IF 2.834 / MR 0.842)**

Hoppe S, Alini M, *Benneker LM*, Milz S, Boileau P, *Zumstein MA*: „Tenocytes of chronic rotator cuff tendon tears can be stimulated by platelet-released growth factors.“ J Shoulder Elbow Surg. 2013 Mar;22(3):340-9. **(IF 2.746)**

Keel MJ, Lustenberger T, Puijpe G, Benneker LM, Bastian JD: Table-mounted ring retractor for consistent visualization in endoscopy-assisted anterior reconstruction of burst fractures of the thoracolumbar junction. *Acta Orthop Belg*. 2013 Feb;79(1):90-6. **(IF 0.629 / MR 0.234)**

Keel MJ, Bastian JD, Büchler L, Siebenrock KA: Anterior approaches to the acetabulum. *Unfallchirurg*. 2013 Mar;116(3):213-20. **(IF 0.64 / MR 0.292)**

Kohl S, Stutz C, Decker S, Ziebarth K, Slongo T, Ahmad SS, Kohlhof H, Eggli S, Zumstein MA, Evangelopoulos DS: Mid-term results of transphyseal anterior cruciate ligament reconstruction in children and adolescents. *Knee*. 2014 Jan;21(1):80-5. **(IF 2.01 / MR 0.711)**

Kohl S, Evangelopoulos DS, Kohlhof H, Hartel M, Bonel H, Henle P, Von Rechenberg B, Eggli S: Anterior crucial ligament rupture: Self-Healing through dynamic intraligamentary stabilization technique. *Knee Surg Sports Traumatol Arthrosc*. 2013 Mar;21(3):599-60. **(IF 2.676 / MR0.857)**

Kohl S, Evangelopoulos DS, Ahmad SS, Kohlhof H, Herrmann G, Bonel H, Eggli S: A novel technique, dynamic intraligamentary stabilization creates optimal conditions for primary ACL healing: A preliminary biomechanical study. *Knee*. 2013 Nov 12 . pii:S1968-0160(13)00213-5 doi: 10.1016/j.knee.2013.11.003. **(IF 2.01 / MR 0.711)**

Kohlhof H, Seidel U, Hoppe S, Keel MJB, Benneker LM: Cement-augmented anterior screw fixation of type II odontoid fractures in elderly patients with osteoporosis. *Spine J*. 2013 Dec 1;23(12):1858-63. **(IF 3.22 / MR 0.953)**

Kohlhof H, Ziebarth K, Gravius S, Wirtz DC, Siebenrock KA: Operative treatment of congenital hip osteoarthritis with high hip luxation (Crowe type IV). *Oper Orthop Traumatol*. 2013 Oct;25(5):469-82. **(IF 0.474 / MR 0.109)**

Krause FG, Henning J, Pfander G, Weber M: Cavovarus Foot Realignment to Treat Anteromedial Ankle Arthrosis. *Foot Ankle Int*. 2013;34:54-64. **(IF 1.474 / MR 0.531)**

Krause FG, Pfander G, Henning J, Shafighi M, Weber M: Ankle Dorsiflexion Arthrodesis to Salvage Chopart's Amputation With Anterior Skin Insufficiency. *Foot Ankle Int*. 2013;34(11):1560-8. **(IF 1.474 / MR 0.531)**

Mica L, Keller C, Vomela J, Trentz O, Plecko M, Keel MJ: Obesity and overweight as a risk factor for pneumonia in polytrauma patients, a retrospective cohort study. *J Trauma Acute Care* 2013;75(4):693-8. **(IF 2.348)**

Popp AW, Schwyn R, Schiuma D, Keel MJ, Lippuner K, Benneker LM: DensiProbe Spine: an intraoperative measurement of bone quality in spinal instrumentation. A clinical feasibility study. *Spine* 2013;13(10):1223-9. **(IF 2.159 / MR 0.734)**

Quinn T, Hauselmann HJ, Shintani N, Hunziker EB: Cell and matrix morphology in articular cartilage from adult human knee and ankle joints suggests depth-associated morphological adaptations to biomechanical and anatomical roles. *Osteoarthritis and Cartilage*, 21: 1904 - 1912, 2013. **(IF 4.262 / MR 0.984)**

Schmid T, Krause FG: Conservative treatment of asymmetric ankle osteoarthritis. *Foot Ankle Clin*. 2013 Sep;18(3):437-48. **(IF 1.474 / MR 0.531)**

Schmid T, Zurbriggen S, Zderic I, Gueorguiev B, Weber M, Krause FG: Ankle joint pressure changes in a pes cavovarus model: supramalleolar valgus osteotomy versus lateralizing calcaneal osteotomy. *Foot Ankle Int*. 2013 Sep;34(9):1190-7. **(IF 1.474 / MR 0.531)**

Shintani N, *Siebenrock KA, Hunziker EB*: TGF-beta1 enhances BMP-2 induced chondrogenesis of bovine synovial explants and arrests downstream differentiation at an early stage of hypertrophy. PLoS One 2013;8(1):e53086. Doi: 10.1371 **(IF 3.73 / MR 0.882)**

Siebenrock KA, Behning A, Mamisch TC, Schwab JM: Growth plate alterations precedes cam-type deformity in elite Basketball players. Clin Orthop Relat Res April;471(4):1084-1091. **(IF 2.787 /MR 0.891)**

Siebenrock KA, Steppacher SD, Haefeli PC, Schwab JM, Tannast M: Coxa Valga et Antetortia Causes Pain Through Posterior Extraarticular Impingement. Clin Orthop Relat Res. 2013 Dec;471(12):3774-80. **(IF 2.787 /MR 0.891)**

Siebenrock KA, Tannast M, Bastian JD, Keel MJ: Posterior approaches to the acetabulum. Unfallchirurg. 2013 Mar;116(3):221-6. **(IF 0.64 / MR 0.292)**

Siebenrock K.A, Fiechter R, Tannast M, Mamisch T.C, Von Rechenberg B: Experimentally induced cam impingement in the sheep hip. J Orthop Res. 2013 Apr;31(4):580-7. **(IF 2.875 / MR 0.906)**

Siebenrock K.A, Steppacher S.D, Albers C.E, Häfeli P.C, Tannast M: Diagnosis and management of developmental hip dysplasia of the hip from triradiate closure through young adulthood. J Bone Joint Surg Am. 2013 Apr 17;95(8):748-55. **(IF 3.234 / MR 0.969)**

Steppacher SD, Albers CE, Siebenrock KA, Tannast M, Ganz R: Femoroacetabular impingement predisposes to traumatic posterior hip dislocation. Clin Orthop Relat Res. 2013 Jun;471(6):1937-43. **(IF 2.787 /MR 0.891)**

Steppacher SD, Albers CE, Siebenrock KA, Tannast M, Ganz R: Reply to the Letter to the Editor: Femoroacetabular impingement predisposes to traumatic posterior hip dislocation. Clin Orthop Relat Res. 2013 Nov;471 (11):3720-1. **(IF 2.787 /MR 0.891)**

Tannast M, Pfander G, Steppacher S.D, Mast J.W, Ganz R: Total acetabular retroversion following pelvic osteotomy: presentation, management, and outcome. Hip Int. 2013 Dec 23;23 Suppl 9:14-26. **(IF 0.531 / MR 0.141)**

Zumstein MA, Hasan A, McGuire D, Eng K, Bain GI: Distal Radius Attachments of the Radiocarpal Ligaments: An Anatomical Study. J Wrist Surg, 2013 Nov;2(4):346-50.

Zumstein MA, Rumian A, Lesbats V, Schaer M, Boileau P: Increased vascularization during early healing after biologic augmentation in repair of chronic rotator cuff tears using autologous leukocyte- and platelet-rich fibrin (L-PRF): a prospective randomized controlled pilot trial. J Shoulder Elbow Surg. 2014 Jan;23(1):3-1. **(IF 2.746)**

Originalarbeiten Kollaborationen

Ahmad SS, Kohl S, Evangelopoulos D.S, Krüger A: Silent chronic osteomyelitis lasting for 30 years before outburst of symptoms. BMJ Case Rep. 2013 Apr 22;2013. **(IF 1.583)**

Blazejak M, Hofmann-Fliri L, Büchler L, Gueorguiev B, Windolf M: In vitro temperature evaluation during cement augmentation of proximal humerus plate screw tips. Injury. 2013 Oct;44(10):1321-6. **(IF 2.174 / MR 0.833)**

Bucher C, Gazdhar A, Benneker LM, Geiser T, Gantenbein-Ritter B: Non-viral Gene Delivery of Growth and Differentiation Factor 5 (GDF5) to human Mesenchymal Stem Cells injected into a 3D bovine Intervertebral Disc Organ Culture System Stem Cells International. Nov 2013 326828. doi: 10.1155/2013/326828

Byuan S, Sinskey YL, Lu CS, Ort T, Kavalkovich K, Sivakumar P, Hunziker EB, Frank E, Grodzinsky AJ: Transport of anti-IL-6 antigen binding fragments into cartilage and effects of injury, Arch Biochem Biophys, 532 (1): 15-22, 2013. **(IF 3.37 / MR 0.686)**

Chan SCW, Bürki A, Bonél HM, Benneker LM, Gantenbein-Ritter B: Papain-induced in vitro disc degeneration model for the study of injectable nucleus pulposus therapy. Spine J. 2013 Mar;13(3):273-83. **(IF 3.22 / MR 0.953)**

Cip J, Widemschek M, Benesch T, Waibel R, Martin A: Does single use of an autologous transfusion system in TKA reduce the need for allogenic blood?: a prospective randomized trial. Clin Orthop Relat Res.2013Apr;471(4):1319-25. **(IF 2.787 / MR 0.891)**

Dübendorfer C, Billeter AT, Seifert B, Keel M, Turina M: Serial lactate and admission SOFA-scores in trauma: An analysis of predictive value in 724 patients with and without traumatic brain injury. Eur J Trauma Emerg Surg 2013;39(1):25-34. **(IF 0.263 / MR 0.167)**

Duttenhofer F, Lara R, Meury T, Loibl M, Benneker LM, Alini M, Verrier S: 3D scaffolds co-seeded with Human Endothelial Progenitor and Mesenchymal Stem Cells: Evidence of prevascularization within 7 days. Eur Cell Mater. 2013 Aug 29;26:49-64; discussion 64-5. **(IF 4.558 / MR 0.961)**

Evangelopoulos DS, Stathopoulos I.P, Morassi G.P, Koufos S, Albarni A, Karampinas P.K, Stylianakis A, Kohl S, Pneumáticos S, Vlamis J: Sonication: a valuable technique for diagnosis and treatment of periprosthetic joint infections. ScientificWorldJournal 2013 Oct. **(IF 1.730)**

Faymonville C, Andermahr J, Seidel U, Müller LP, Skouras E, Exdel P, Stein G: Compartments of the foot: topographic anatomy. Surg Radiol Anat.2012 Dec;34(10):929-33. **(IF 1.13 / MR 0.396)**

Guevara C, Seidel U, Hewer E, Vajtai I: Intraosseous traumatic neuroma of the lumbar spine: a previously unrecognized form of vertebral pseudotumor. Clin Neuropathol. 2013 May-Jun;32(3):189-91. **(IF 1.341 / MR 0.276)**

Guterl CC, See E, Blanquer SBG, Pandit A, Ferguson SJ, Benneker LM, Grijpma DW, Sakai D, Eglín D, Alini M, Iatridis JC, Grad S: Challenges and strategies in the repair of ruptured annulus fibrosus. Eur Cell Mater. 2013 Jan 2;25:1-21. **(IF 4.558 / MR 0.961)**

Hall-Glenn F, DeYoung A, Aivazia A, Akopyan L, Baxter RR, Benya PD, Safadi FF, Goldschmedding R, van Nieuwenhovene F, Hunziker EB, Lyons KM: Ccn2/CTGF is required for matrix organization and to protect growth plate chondrocytes from cellular stress, J Cell Communication and Signalling 2013 Aug;7 (3):219-30. **(IF 5.09)**

König MA, Seidel U, Heini P, Orlor R, Quraishi NA, Boszczyk AA, Boszczyk BM: Minimal-invasive Percutaneous Reduction and Transsacral Screw Fixation for U-shaped Fractures. J Spinal Disord Tech. 2013 Feb;26(1):48-54. **(IF 1.767 / MR 0.594)**

Malonzo C, Chan SCW, Kabiri A, Eglin D, Grad S, Bonél HM, Benneker LM, Gantenbein-Ritter B: A Papain-induced disc degeneration model for the assessment of thermo-reversible hydrogel-cells therapeutic approach. J Tissue Eng Regen Med. 2013 Jan 9. doi: 10.1002/term.1667. **(IF 2.826 / MR 0.829)**

Mica L, Rufibach K, Keel M, Trentz O: The risk of early mortality of polytrauma patients associated to ISS, NISS, APACHE II values and prothrombin time, a retrospective cohort study. J Trauma Manag Outcomes 2013;7(1):6, **(IF 0.95)**

Mica L, Keller C, Vomela J, Keel M, Trentz O, Plecko M: The influence of body mass index on injury pattern in polytrauma: Thorax as the main source of complications. Global Epidemic Obesity 2013;1:3.

Montjovent M.O, Siegrist M, Klenke F, Wetterwald A, Dolder S, Hofstetter W: Expression of antagonists of WNT and BMP signaling after non-rigid fixation of osteotomies. Bone;53(1): 79-86, 2013. **(IF 3.823 / MR 0.68)**

Peroglio M, Eglin D, Benneker LM, Alini M, Grad S: Thermoreversible hyaluron-based hydrogel supports in vitro and ex vivo disc-like differentiation of human mesenchymal stem cells. Spine J. 2013 Nov;13(11):1627-39. **(IF 3.22 / MR 0.953)**

Schumann S, Liu L, Tannast M, Bergmann M, Nolte L.P, Zheng G: An integrated system for 3D hip joint reconstruction from 2D x-rays: a preliminary validation study. Ann Biomed Eng. 2013 Oct;41(10):2077-87. **(IF 2.575 / MR 0.737)**

Townshend D, Di Silvestro M, Krause F, Penner M, Younger A, Glazebrook M, Wing K. Arthroscopic Versus Open Ankle Arthrodesis: A Multicenter Comparative Case Series. J Bone Joint Surg Am. 2013 Jan 16;95(2):98-102 **(IF 3.234 / MR 0.969)**

Van der Wilden GM, Albers CE, Haefeli PC, Zimmermann H, Exadaktylos A, Levy P, Birkhan O, Michailidou M, Sideris A, Velmahos GC, Alam HB, King DR, Fagenholz PJ, Yeh DD, de Moya MA: Using micropower impulse radar technology to screen for pneumothorax: an international bi-institutional study. Erratum in: J Trauma Acute Care Surg. 2013 Jan;74(1):347. **(IF 2.348)**

Vadalà G, Russo F, Patappa G, Schiuma D, Peroglio M, Benneker LM, Grad S, Alini M, Denaro V: The transpedicular approach as an alternative route for intervertebral disc regeneration. Spine (Phila Pa 1976). 2013 Mar 15;38(6):E319-24. **(IF 2.159 / MR 0.734)**

Wirtz C, Abbassi F, Evangelopoulos D.S, Kohl S, Siebenrock K.A, Krüger A: High failure rate of trochanteric fracture osteosynthesis with proximal femoral locking compression plate. Injury. 2013 Jun;44(6):751-6. **(IF 2.174 / MR 0.833)**

Ziebarth K, Kolp D, Kohl S, Slongo T: Anterior cruciate ligament injuries in children and adolescents: a review of the recent literature. Eur J Pediatr Surg. 2013 Dec;23(6):464-9. **(IF 0.839 / MR 0.289)**

Übrige Publikationen (ohne Abstracts, z.B. Buchbeiträge, Artikel in nicht indexierten Zeitschriften, Reviews, Case Reports)

Albers C.E, Steppacher S.D, Tannast M, Siebenrock K.A: Surgical Technique: Reverse Periacetabular Osteotomy. Springer, 2013.

Bain GI, Eng K, Zumstein MA: Fatal Air Embolus During Internal Fixation of the Clavicle. *Jo Bone Joint Surg Am.* 2013 3, e24.

Benneker LM, Hoppe S: Percutaneous cement augmentation techniques for osteoporotic spinal fractures *European Journal of Trauma and Emergency Surgery*, October 2013, 39 (5):445-453.

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Diaz-Romero J, Schönholzer E, Nesic, D: Development of a S100 cell-based ELISA assay for screening of stimuli inducing redifferentiation of human articular chondrocytes. SBMS Annual Meeting, Bern 6th June 2013.

Schär M.O, Diaz-Romero J, Kohl S, Zumstein M.A, Nesic D: A comparative study of growth factor release from Leukocyte-Platelet-Rich Fibrin (L-PRF), Leukocyte-Platelet Rich Plasma (L-PRP) and blood clot. SGO 73rd Annual meeting, Lausanne 26-28 Juni 2013.

Schober MM, Mastrocola M, Aghayev E, Nyffeler RW: In anterior shoulder dislocations the degree of displacement of the humeral head correlates with rotator cuff tears 73. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie und Traumatologie, Lausanne, Schweiz, 26.-28.06.2013.

Siebenrock KA: „Technik und Resultate der Epiphyseolyse Chirurgie“. Fortbildungstag Hüftchirurgie, kritisch hinterfragt. SGOT, Bern 19. 01. 2013.

Siebenrock KA: „Retroversion im Adoleszentenalter“. Fortbildungstag Hüftchirurgie, kritisch hinterfragt. SGOT, Bern 19. 01. 2013.

Siebenrock KA: „FAI Etiology of Deformity“. Fortbildungstag Hüftchirurgie, kritisch hinterfragt. SGOT, Bern 19. 01. 2013.

Siebenrock KA: „Managing the sequelae of impingement in young adults“. Instructional Course Lecture 144; American Academy of Orthopedic Surgeons (AAOS). Chicago, USA 19. – 23. 03. 2013.

Siebenrock KA: „Current perspectives on the diagnosis and management of DDH through early adulthood.“ Instructional Course Lecture 365; American Academy of Orthopedic Surgeons (AAOS). Chicago, USA 19. – 23. 03. 2013.

Siebenrock KA: „Fluch oder Segen? Leistungssport und die moderne Orthopädie“. 15th Swiss medical students convention. Surgery – cutting edge. Bern, 26. – 28. 04. 2013.

Siebenrock KA: „Azetabulumfrakturen: chirurgische Hüftluxation“. 3. Hamburger Beckenkurs, Hamburg, BRD, 02. – 03. 05. 2013.

Siebenrock KA: „Legg-Perthes disease: is there a role for operative correction of coxa magna and femoral head extrusion?“ European Paediatric Orthopaedic Society (EPOS), Athens, Greece, 17.- 20. 2013.

Siebenrock KA: „Hip: Osteotomy and Arthroplasty“. Comprehensive Review Course. 14th EFFORT Congress, Istanbul, Turkey, 05. – 08. 06. 2013.

Siebenrock KA: „Workshop 7: Gelenkersatzoperationen: Grenze zwischen Normalverlauf und Komplikation“. Swiss Family Docs Conference 2013. Bern, 29.-30. 08. 2013.

Siebenrock KA: „Megaprothesen: Indikationen in der Revisionschirurgie“. Tumor- und Megaprothesen in der Orthopädie. Expert meeting. Uniklinik Balgrist, Zürich, 30. 08. 2013.

Siebenrock KA: „Offene und arthroskopische Verfahren zur Gelenkerhaltung“. Seminar 13: Hüftschmerz – moderne Korrekturingriffe am Hüftgelenk. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, BRD, 22. – 25. 10. 2013.

Siebenrock KA: „Hip joint preservation surgery – The Bern algorithm“. EFORT Instructional Course: Osteoarthritis: Joint preserving surgery of the lower extremity. Basel 15. – 16- 11. 2013.

Siebenrock KA: „Hip joint preservation – where are we today?“ Invited Guest Lecture at the 40th Annual Meeting of Japanese Hip Society. Hiroshima, Japan 29. – 30. 11. 2013.

Siebenrock KA: „Reduction and fixation through the extended iliofemoral approach“. Acetabulum – results and special situations. AO Trauma Course – Acetabular and pelvic fracture management. Davos, 08. – 13. 12. 2013.

Seidel U: Operative Verfahren und Therapien aus orthopädischer Sicht bei Rückenproblemen. SBB Vertragsärztekongferenz Lausanne, 21.11.2013.

Steppacher S.D, Zurmühle C.A, Puls M, Kim Y.J, Siebenrock K.A, Tannast M: PAO Normalizes Range of Motion in Dysplastic Hips: A Computer-Assisted 3-Dimensional Motion Analysis. 14th EFFORT Congress, Istanbul, Turkey, June 5 – 8, 2013.

Tannast M: M. Perthes – chirurgische Behandlungsoptionen. Fortbildungstag der Schweizerischen Gesellschaft für Orthopädie, Bern, Schweiz, January 19, 2013.

Tannast M: Femur – musculoskeletal considerations. AO Symposium on Surgical Preservation of the Hip, Jackson Hole, WY, January 22-25, 2013.

Tannast M: Hip dysplasia: Morphologic characteristics of in skeletally mature – can we classify?. AO Symposium on Surgical Preservation of the Hip, Jackson Hole, WY, January 22-25, 2013.

Tannast M: Outcomes in PAO: Predictors of Success. AO Symposium on Surgical Preservation of the Hip, Jackson Hole, WY, January 22-25, 2013.

Tannast M: Dysmorphism in Legg Calvé Perthes Disease (LCPD). AO Symposium on Surgical Preservation of the Hip, Jackson Hole, WY, January 22-25, 2013.

Tannast M, Schwab J.M: Acetabular fractures in the elderly: 20-year survivorship and predictive factors. Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS), Chicago, USA, March 19-23, 2013.

Tannast M: Gelenkersatz – Laufen verboten? Infoveranstaltung Grand-Prix Bern, “Laufen und Arthrose”, 18.4.2013, Inselspital, Bern

Tannast M: Update Hüftpathologien – was der Neurochirurge wissen sollte. Neurochirurgisches Morgenseminar, Universitätsklinik für Neurochirurgie, Inselspital, Bern. May 23, 2013

Tannast M: Bildgebende Grundlagen und biomechanische Prinzipien des FAI. 3. Niederrheinischer Hüftarthroskopiekongress mit Workshop. Essen, Germany, September 27-28, 2013.

Tannast M: Imaging of the hip – conventional radiography. Annual scientific meeting of the International Society for Hip Arthroscopy, Munich, Germany, October 10-12, 2013.

Tannast M: Conventional and advanced imaging in the hip. Annual scientific meeting of the International Society for Hip Arthroscopy, Munich, Germany, October 10-12, 2013.

Tannast M: Bildgebung der Hüfte. Deutsche Gesellschaft für Orthopädie und Unfallchirurgie (DKOU), Berlin, Germany, October 22 – 25, 2013.

Zumstein MA: How to enhance cuff healing : intrinsic and extrinsic healing factors ; can biology help? Does arthroscopy reduce the risk of secondary osteoarthritis 8th Advanced Course on Shoulder Arthroscopy, Val d'Isère (France).

Zumstein MA: Wie beeinflussen Nahttechnik und Biologie die Heilung der Rotatorenmanschette Schultertagung Kantonspital Luzern, Update, Luzern, Schweiz.

Zumstein MA: Complications in Reversed Total Shoulder Arthroplasty 4th International Innsbruck cadaver course on surgery of the shoulder, University of Innsbruck, Austria.

Zumstein MA: Rotator Cuff: Basic Science Update 2013
Refixation Update, XII. International Shoulder Course, Münster, Germany.

Zumstein MA: Growth Factor Application in Rotator Cuff Repair: State of the Art and Future Perspectives. From Bench to Bedside, Shoulder and Tendons, University of Torino, Torino, Italy.

Zumstein MA: Acute and chronic AC joint dislocations: Rationale and Stabilization Techniques. From Bench to Bedside, Shoulder and Tendons, University of Torino, Torino, Italy.

Zumstein MA: Growth Factor Application in Rotator Cuff Repair: State of the Art and Future Perspectives 12th International Congress of Shoulder and Elbow Surgery, Nagoya, Japan.

Zumstein MA: Osteosynthesis of the Proximal Humerus Fractures. Annual Meeting of the Swiss Society of Orthopedic Surgeons, Lausanne, Switzerland.

Zumstein MA: My approach of Proximal Humeral Fractures 6th Shoulder Meeting Bern, Switzerland.

Zumstein MA: Arthroscopic Double-Row Repair Does the technique influence the healing rate and pattern? Meeting of the New Zealand Shoulder and Elbow Society; Queenstown, New Zealand .

Zumstein MA: The Failed Reverse Shoulder Arthroplasty. Meeting of the New Zealand Shoulder and Elbow Society; Queenstown, New Zealand .

Zumstein MA: Biology In Rotator Cuff Repair. Meeting of the New Zealand Shoulder and Elbow Society; Queenstown, New Zealand .

Zumstein MA: Instability Procedures - Does Arthroscopy Reduce the risk of Arthrosis. Meeting of the New Zealand Shoulder and Elbow Society; Queenstown, New Zealand .

Zumstein MA: Acromioclavicular Joint Instability - Current Strategies. Meeting of the New Zealand Shoulder and Elbow Society; Queenstown, New Zealand.

Zumstein MA: Posterior Elbow Arthroscopy. 2nd Elbow Arthroscopy Meeting, Fribourg, Switzerland .

Zumstein MA: Anatomy, Trauma Pattern, of Distal Radius Fractures. Annual Meeting of the Swiss Society of Traumatology, Biel, Switzerland.

Zumstein MA: Reverse Total Shoulder Arthroplasty: Indications in Rotator Cuff Tear Affinis Meeting, Anatomy Workshop, Paris, France.

Zumstein MA: S100-based assays to determine differentiation status of human articular chondrocyte AO Exploratory Research Symposium, Davos, Switzerland.

Zumstein MA: Ligament origins are preserved in distal radial intraarticular twopart fractures: A computed tomography based study. Annual Meeting of the Swiss Society of Orthopedic Surgeons, Lausanne, Switzerland.

Zumstein MA: A comparative study of growth factor release from L-PRF and L-PRP and their effect on migration of mesenchymal stem cells and endothelial cells. Annual Meeting of the Swiss Society of Orthopedic Surgeons, Lausanne, Switzerland.

Zumstein MA: Clinical and Radiographical Mid- and Long-term Evolution in the Throwing Shoulder 6.8 resp. 21 Years after Completion of a Professional Handball Career. Annual Meeting of the Swiss Society of Orthopedic Surgeons, Lausanne, Switzerland.

Zumstein MA: Mid- and long-term evolution in the throwing shoulder 6.8 resp. to 21 years after completion of a professional handball career. Closed Meeting of the European Society for Surgery of the Shoulder and Elbow, Madrid, Spain.

Organisation Kurse/Symposien

Bastian JD: Referat 4: Der (Um-) Weg einer Klinikerin, eines Kliniklers durch ein Forschungslabor

Referent: Dr. med. et phil. nat. Rainer Egli (Research Assistant, Bone Biology and Orthopaedic surgery, Departament für klinische Forschung DKF, Bern), Dauer: 45min

Keel MJB: 2nd Swiss Trauma & Resuscitation Day (STRD), Bern, Switzerland, 22.02.2013.

Keel MJB: 100 Jahreskongress, Schweizerische Gesellschaft für Chirurgie (SGC/SSC), Bern, Switzerland, 12-14.06.2013.

Keel MJB: 17. Bieler Fortbildungstage, Schweizerische Gesellschaft für Allgemeinchirurgie und Traumatologie (SGACT) und Schweizerische Gesellschaft für Traumatologie und Versicherungsmedizin (SGTV), Biel, Schweiz, 05-06.09.2013.

Krause F: Der diabetische Fuss - Hausärztefortbildung, Bern, Juni 6, 2013.

Hoppe S: Organisation/Durchführung „Mini AO Kurs“SWISS MEDIACL STUDENT CONVENTION 2013, Bern Cooperation mit DePuySynthes

Fakultät bei Kursen/Symposien

Keel MJB: 6th Orthopaedic Trauma Conference, Kuwait, 05-07.03.2013.

Keel MJB: 1st Riyadh Orthopedic Trauma Review Course: King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia, 03-04.04.2013.

Keel MJB: AO Trauma Masters Seminar – Proximal Femur: Barcelona, Spain, 26-27.04.2013.

Keel MJB: 3. Hamburger Beckenkurs, Hamburg, Germany, 02-03.05.2013.

Keel MJB: 14th European Congress of Trauma & Emergency Surgery (ECTES), Lyon, France, 04-07.05.2013.

Keel MJB: 25th Emile Letournel Course and Workshop, Fractures of the Acetabulum and Pelvis, Lucerne, Switzerland, 14-17.10.2013.

Keel MJB: 12. AO Trauma-Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie, Homburg, Deutschland, 26-28.06.2013.

Keel MJB: 7th Orthopaedic Trauma Conference, Kuwait, 20-23.11.2013.

Keel MJB: AO Trauma Courses 2013 – Acetabular and Pelvic Fracture Management, Davos, Switzerland, 08-13.12.2013.

Keel MJB: AO Trauma Courses 2013 – Advanced Principles of Fracture Management for Swiss Residents, Davos, Switzerland, 08-13.12.2013.

Krause F: 16th Surgical Skill Course Hindfoot. Luzern, Januar 19-22, 2013

Krause F: Elective foot and ankle sugery – advanced technical symposium, Basel, Mai 31 und Juni 1, 2013.

Krause F: Arthroskopiekurs der mittleren Gelenke – Ellbogen, Sprunggelenk, Swissendos Fribourg, August 29-30, 2013.

Krause: AO Trauma Seminar – Die Traumatologie des Fusses. Solothurn, November 9, 2013.

Seidel U: AO Spine Fortgeschrittenen Kurs – Verletzungen der Wirbelsäule, Frankfurt, Deutschland, 18.-20.04.2013

Siebenrock KA: „Technik und Resultate der Epiphyseolyse Chirurgie“. Fortbildungstag Hüftchirurgie, kritisch hinterfragt. SGOT, Bern 19. 01. 2013.

Siebenrock KA: „Retroversion im Adoleszentenalter“. Fortbildungstag Hüftchirurgie, kritisch hinterfragt. SGOT, Bern 19. 01. 2013.

Siebenrock KA: „FAI Etiology of Deformity“. Fortbildungstag Hüftchirurgie, kritisch hinterfragt. SGOT, Bern 19. 01. 2013.

Siebenrock KA: „Managing the sequelae of impingement in young adults“. Instructional Course Lecture 144; American Academy of Orthopedic Surgeons (AAOS). Chicago, USA 19. – 23. 03. 2013.

Siebenrock KA: „Current perspectives on the diagnosis and management of DDH through early adulthood.“ Instructional Course Lecture 365; American Academy of Orthopedic Surgeons (AAOS). Chicago, USA 19. – 23. 03. 2013.

Siebenrock KA: „Fluch oder Segen? Leistungssport und die moderne Orthopädie“. 15th Swiss medical students convention. Surgery – cutting edge. Bern, 26. – 28. 04. 2013.

Siebenrock KA: „Azetabulumfrakturen: chirurgische Hüftluxation“. 3. Hamburger Beckenkurs, Hamburg, BRD, 02. – 03. 05. 2013.

Siebenrock KA: „Legg-Perthes disease: is there a role for operative correction of coxa magna and femoral head extrusion?“ European Paediatric Orthopaedic Society (EPOS), Athens, Greece, 17.- 20. 2013.

Siebenrock KA: „Hip: Osteotomy and Arthroplasty“. Comprehensive Review Course. 14th EFFORT Congress, Istanbul, Turkey, 05. – 08. 06. 2013.

Siebenrock KA: „Workshop 7: Gelenkersatzoperationen: Grenze zwischen Normalverlauf und Komplikation“. Swiss Family Docs Conference 2013. Bern, 29.-30. 08. 2013.

Siebenrock KA: „Megaprothesen: Indikationen in der Revisionschirurgie“. Tumor- und Megaprothesen in der Orthopädie. Expert meeting. Uniklinik Balgrist, Zürich, 30. 08. 2013.

Siebenrock KA: „Offene und arthroskopische Verfahren zur Gelenkerhaltung“. Seminar 13: Hüftschmerz – moderne Korrekturingriffe am Hüftgelenk. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, BRD, 22. – 25. 10. 2013.

Siebenrock KA: „Hip joint preservation surgery – The Bern algorithm“. EFORT Instructional Course: Osteoarthritis: Joint preserving surgery of the lower extremity. Basel 15. – 16- 11. 2013.

Siebenrock KA: „Hip joint preservation – where are we today?“ Invited Guest Lecture at the 40th Annual Meeting of Japanese Hip Society. Hiroshima, Japan 29. – 30. 11. 2013.

Siebenrock KA: „Reduction and fixation through the extended iliofemoral approach“. Acetabulum – results and specials situations. AO Trauma Course – Acetabular and pelvic fracture management. Davos, 08. – 13. 12. 2013.

Zumstein MA: 1.8th Advanced Course on Shoulder Arthroscopy, Januare 20th-25th, 2013 Val D'Isere, Frankreich.

Zumstein MA: IV. International Innsbruck Cadaver Course on Surgery of the Shoulder. Innsbruck, 11. bis 13. Februar 2013.

Zumstein MA: Shoulder Arthroplasty /Reverse Shoulder Arthroplasty. 13. Operationskurs „Refixation Update“, Münster, 02.03.2013.

Zumstein MA: Biological strategy for rotator cuff repair: hype or hope? Tendons and shoulder from bench to bedside, Torino, 05.04.2013.

Zumstein MA: A-C reconstructin: the Experience. Tendons and shoulder from bench to bedside, Torino, 05.04.2013.

Zumstein MA: The Failed Reverse Shoulder Arthroplasty, DePuy Synthes Shoulder Symposium, 17- 18.07.2013

Zumstein MA: Anatomie, Verletzungsmuster und Diagnostik, Bieler Fortbildungstag, 05.09.2013.

Vorsitz/Rundtischdiskussion bei Kursen/Symposien

Keel MJB: Trauma patients: Special circumstances in the shockroom. 2nd Swiss Trauma & Resuscitation Day (STRD), Bern, Switzerland, 22.02.2013.

Keel MJB: Case presentations and discussion of unusual and tricky trauma cases. 2nd Swiss Trauma & Resuscitation Day (STRD), Bern, Switzerland, 22.02.2013.

Keel MJB: Pelvic ring injuries. 6th Orthopaedic Trauma Conference, Kuwait, 05-07.03.2013.

Keel MJB: Round table discussion: Problem cases. 6th Orthopaedic Trauma Conference, Kuwait, 05-07.03.2013.

Keel MJB: 31-B fractures. AO Trauma Masters Seminar – Proximal Femur: Barcelona, Spain, 26-27.04.2013.

Keel MJB: Allgemeinchirurgie und Traumatologie: Wirbelfrakturen. 100 Jahreskongress, Schweizerische Gesellschaft für Chirurgie (SGC/SSC), Bern, Switzerland, 12.-14.06.2013.

Keel MJB: Distale Radiusfrakturen. 17. Bieler Fortbildungstage, Schweizerische Gesellschaft für Allgemeinchirurgie und Traumatologie (SGACT) und Schweizerische Gesellschaft für Traumatologie und Versicherungsmedizin (SGTV), Biel, Schweiz, 05.-06.9.2013.

Keel MJB: Insuffizienzfrakturen des Beckenrings. 17. Bieler Fortbildungstage, Schweizerische Gesellschaft für Allgemeinchirurgie und Traumatologie (SGACT) und Schweizerische Gesellschaft für Traumatologie und Versicherungsmedizin (SGTV), Biel, Schweiz, 05.-06.9.2013.

Keel MJB: Hüfte – Instabilität. Arbeitsgemeinschaft Endoprothetik – AE-Dreiländerkurs Hüfte: Wien, Österreich, 11-12.10.2013.

Keel MJB: Small group discussions. 25th Emile Letournel Course and Workshop, Fractures of the Acetabulum and Pelvis, Lucerne, Switzerland, 14-17.10.2013.

Keel MJB: Polytrauma. 7th Orthopaedic Trauma Conference, Kuwait, 20-23.11.2013.

Keel MJB: Pelvic fractures. 7th Orthopaedic Trauma Conference, Kuwait, 20-23.11.2013.

Keel MJB: Rücken. Fachsymposium – Suva care, Rehaklinik Bellikon, Schweizerische Gesellschaft für Traumatologie und Versicherungsmedizin (SGTV/SSTMA), Sportverletzungen: FIFA Zürich, Schweiz, 28.11.2013.

Krause F: 16th Surgical Skill Course Hindfoot. Luzern, Januar 19-22, 2013

Krause F: AO Trauma Seminar – Die Traumatologie des Fusses. Solothurn, November 9, 2013.

Nesic D: Moderator: Cartilage cell transplantation (Basic Science), 11th World Congress ICRS, Izmir, Turkey, 18 September 2013.

Seidel U: Session 3 – perkutane Stabilisation. AOSpine Fortgeschrittenen Kurs-Verletzungen der Wirbelsäule, Frankfurt, Deutschland, 19.04.2013

Siebenrock KA: “Falldiskussionen Azetabulumfrakturen”. 3. Hamburger Beckenkurs, Hamburg, BRD, 02. – 03. 05. 2013.

Siebenrock KA: “Falldiskussionen Beckenfrakturen”. 3. Hamburger Beckenkurs, Hamburg, BRD, 02. – 03. 05. 2013.

Siebenrock KA: “Pelvic fractures: Diagnostic challenges and functional outcome”. 14th EFFORT Congress, Istanbul, Turkey, 05. – 08. 06. 2013.

Siebenrock KA: Seminar 13: Hüftschmerz – moderne Korrekturingriffe am Hüftgelenk. Deutscher Kongress für Orthopädie und Unfallchirurgie (DKOU), Berlin, BRD, 22. – 25. 10. 2013.

Siebenrock KA: AO Trauma Course – Acetabular and pelvic fracture management. Davos, 08. – 13. 12. 2013.

Zumstein MA: Decision making factors in anterior shoulder instability and rotator cuff tears, 8th Advanced Course on Shoulder Arthroscopy. Januare 20th-25th, 2013. Val D’Isere, Frankreich.

Zumstein MA: Round-table „Rotator Cuff“: 6. Schulter Tagung, Zentrum Paul Klee Bern, 04.07.2013.

Zumstein MA: Indication II Cuff Tear, Case Discussion, Anatomy Workshop Shoulder Arthroplasty, Paris, 21.11.2013.

Instruktor bei Kursen/Symposien

Ecker TM: Kurs für die klinische Untersuchung des Bewegungsapparates, Kaderkurs Medizin (Med OS) 41-2/2013. 23.0.2013, Moudon.

Keel MJB: Cadaver: Pararectus approach. 14. Treffen der Arbeitsgemeinschaft Becken II der Deutschen Gesellschaft für Unfallchirurgie (DGU): Klinik für Unfall-, Hand- und Wiederherstellungschirurgie, Universitätsklinikum Münster, Münster, Deutschland, 14.02.2013.

Keel MJB: Cadaver: Stoppa. 3. Hamburger Beckenkurs, Hamburg, Germany, 02-03.05.2013.

Keel MJB: Cadaver: Beckentamponade. 12. AO Trauma-Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie, Hamburg, Deutschland, 26.-28.06.2013.

Keel MJB: Cadaver: Symphysenplatte. 12. AO Trauma-Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie, Hamburg, Deutschland, 26.-28.06.2013.

Keel MJB: Klassifikationsübung Azetabulumfrakturen. 12. AO Trauma-Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie, Hamburg, Deutschland, 26.-28.06.2013.

Keel MJB: Prüfungsparcour: Notfallentscheidungen Beckenring. 12. AO Trauma-Homburger Beckenkurs Teil 1 – Grundlagen der Becken- und Azetabulumchirurgie, Hamburg, Deutschland, 26.-28.06.2013.

Keel MJB : Practical exercises (3). 25th Emile Letournel Course and Workshop, Fractures of the Acetabulum and Pelvis, Lucerne, Switzerland, 14-17.10.2013.

Keel MJB : Anatomy/Cadaver dissection (5 approaches). 25th Emile Letournel Course and Workshop, Fractures of the Acetabulum and Pelvis, Lucerne, Switzerland, 14-17.10.2013.

Keel MJB: Rückenschmerzen: Trauma oder nicht ? 3.Fortbildungskurs für SIM Gutachter und Interessierte, Swiss Insurance Medicine (SIM), Fribourg, Schweiz, 31.10.2013.

Keel MJB: Discussion groups. AO Trauma Courses 2013 – Acetabular and Pelvic Fracture Management, Davos, Switzerland, 08-13.12.2013.

Keel MJB: Practical exercise: Stabilization of the pelvic ring with a pelvic C-clamp. AO Trauma Courses 2013 – Acetabular and Pelvic Fracture Management, Davos, Switzerland, 08-13.12.2013.

Krause F. 16th Surgical Skill Course Hindfoot. Luzern, Januar 19-22, 2013.

Krause F. Elective foot and ankle surgery – advanced technical symposium, Basel, Mai 31 und Juni 1, 2013.

Krause F. Arthroskopiekurs der mittleren Gelenke – Ellbogen, Sprunggelenk, Swissendos Fribourg, August 29-30, 2013.

Schmid T: Dozent am „Kurs für die klinische Untersuchung des Bewegungsapparates“ Kaderkurs 2 Medizin (Med OS) 41-2/2013 der Schweizer Armee Moudon, 23.09.2013

Siebenrock KA: 3. Hamburger Beckenkurs, Hamburg, BRD, 02. – 03. 05. 2013.

Siebenrock KA: EFORT Instructional Course: Osteoarthritis: Joint preserving surgery of the lower extremity. Basel 15. – 16- 11. 2013.

Siebernrock KA: AO Trauma Course – Acetabular and pelvic fracture management. Davos, 08. – 13. 12. 2013.

Zumstein MA: IV. International Innsbruck Cadaver Course on Surgery of the Shoulder, Innsbruck, 2013.

Zumstein MA: Cadaver Arthroscopy Workshop / Rotator cuff: Basic science-Update. 13. Operationskurses "Refixation Update, Münster, 27.02.2013 bis 02.03.2013.

Zumstein MA: Scientific Principles of Rotator Cuff Repair –Biomechanics –Biology, 19th Course in Shoulder Surgery, Balgrist Uniklinik, Zürich. 3. bis 4.10.2013.

Zusätzliche Lehrleistungen ausserhalb des Medizinstudiums auf Stufe Ausbildung (nicht Weiterbildung)

Ecker TM: Vorlesung Fachhochschule Technik und Informatik Bern, Studiengang Mikro- und Medizintechnik 2013 Robotik und Computer-assistierte Chirurgie.

Nesic D: Course Tissue Engineering in Master of Biomedical Engineering: Lectures 16 Hours.

Egli R: Der (Um-) Weg einer Klinikerin, eines Klinikers durch ein Forschungslabor
Bone Biology and Orthopaedic surgery, Departament für klinische Forschung DKF, Bern,
Dauer: 45min.

Stipendien

Anwanderer H

Schweizerischer Nationalfonds
Fellowship in research; the Ottawa Hospital
(für Aufenthalt 1.3.2014-28.02.2015)
46'500.-

Bastian JD

Schweizerische Gesellschaft für Orthopädie und Traumatologie
Fellowship Peter Giannoudis MD, FRCS, Professor of Trauma & Orthopaedic Surgery
School of Medicine, University of Leeds
Appearance of intrapelvic femoral head displacement in anterior acetabular fracture patterns:
Predictors for associated femoral head impaction injuries and implications on the outcome at
mid-term.
(für Aufenthalt von 01.05.2014–31.10.2014)
CHF 27'500.–

Ecker TM

Forschungsgrat für Nachwuchsforschende des Inselspitals 2013
Betrag: CHF 80'000

Tannast M

SNF Professorship of the Swiss National Science Foundation on 'Femoroacetabular
impingement – from an experimental sheep model to patient care'.
SFR 1'164'517.-

Habilitation / SNF-Förderungsprofessur

PD Dr. Klenke Frank, 15.05.2013

PD Dr. Aghayev Emin, 26.02.2013

Prof. Dr. M. Tannast, 14.03.2013

Masterarbeiten

Corinne Zurmühle

Range of motion before and after periacetabular osteotomy – a computer simulated study.

Leitung: *Steppacher SD und Siebenrock KA*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern

Till Dominic Lerch

Fläche und Form der Hüftpfanne bei verschiedenen Hüftpathologien und Normalhöften.

Leitung: *Steppacher SD / Siebenrock KA*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 26.07.2013.

Eric Schönholzer

Masterthesis in Biomedical Engineering. Development of an S100 protein based assay for assessment of human articular chondrocytes re-differentiation in monolayer. Leitung: *Nesic D*, Department of Bone Biology and Orthopedic Surgery. 31.05.2013.

Simone Dellenbach

Mittel- und langfristige Evolution der klinischen radiologischen Schulterpathologien 8, respective 15 Jahre nach Beenden des Profihandballs.

Leitung: *Zumstein M*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 13.05.2013.

Kim Huber

Zweizeitiger Knieprothesenwechsel mittels intraoperativ geformtem Spacer bei Knieprotheseninfekt.

Leitung: *Siebenrock KA*, Departement Orthopädische Chirurgie, Inselspital, Bern und Prof Dr. S. Eggli, Klinik Sonnenhof, Bern. 31.05.2013.

Horovitz Rachel G.

Investigation into the Suitability of Collagen Scaffolds for Anterior Cruciate Ligament Repair.

Leitung: PD Dr. Benjamin Gantenbein, Institute for Surgical Technology & Biomechanics. University of Bern und *Kohl S*, Departement of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern, Dezember 2013.

Dissertationen (inkl. Leitung von Dissertationen)

Wangler Sebastian

Different Augmentation techniques for the reduction of leakage in a vertebroplasty model

Betreuer: *Hoppe S, Benneker LM*

Reto Fuhrer

Radiological changes after implantation of interspinous spacers

Betreuer: *Hoppe S, Benneker LM*

Salvatore Tomagra

ACL reconstruction with physiological graft tension by intraoperative adjustment of the anteroposterior translation to the uninjured contralateral knee.

Leitung: *Bastian JD*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern
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Markus Hanke

LCPD: Reduced Range of Motion Resulting from Extra- and Intraarticular Impingement

Leitung : *Tannast M. / Siebenrock KA*, Universitätsklinik für Orthopädische Chirurgie und Traumatologie 13.11.2013

Marek Radoslaw Koch-Blazejak

In vitro temperature evaluation during cement augmentation of proximal humerus plate screw tips.

Leitung: *Büchler L / Siebenrock KA*, Universitätsklinik für Orthopädische Chirurgie und Traumatologie 10.07.2013

Fariba Abbassi

High failure rate of trochanteric fracture osteosynthesis with proximal femoral locking compression plate.

Leitung: *Kohl S / Siebenrock KA*, Universitätsklinik für Orthopädische Chirurgie und Traumatologie 15.05.2013

Anna Behning

Growth Plate Alteration Precedes Cam-type Deformity in Elite Basketball Players

Leitung: *Siebenrock KA*, Universitätsklinik für Orthopädische Chirurgie und Traumatologie
20.02.2013