

## BUCH KAPITEL:

- [Development of a collagen calcium-phosphate scaffold as a novel bone graft substitute.](#) **Al-Munajjed** AA, Gleeson JP, O'Brien FJ. Stud Health Technol Inform. 2008;133:11-20.
- [Biomechanical characterisation of osteosyntheses for proximal femur fractures: helical blade versus screw.](#) **Al-Munajjed** AA, Hammer J, Mayr E, Nerlich M, Lenich A. Stud Health Technol Inform. 2008;133:1-10.

## WISSENSCHAFTLICHE PEER REVIEWED JOURNALE:

- [Antimicrobial Silver Multilayer Coating for Prevention of bacterial Colonization of Orthopedic Implants;](#) Fabritius M, **Al-Munajjed** AA, Freytag C, Jülke H, Zehe M, Lemarchand T, Arts J, Schumann D, Alt V, Sternberg K. Materials 2020, 13, 1415; doi:10.3390/ma13061415.
- [Metatarsal Loading During Gait-A Musculoskeletal Analysis](#) **Al-Munajjed** AA, Bischoff JE, Dharia MA, Telfer S, Woodburn J, Carbes S. J Biomech Eng. 2016 Mar 1;138(3). doi: 10.1115/1.4032413.
- [Influence of minimally invasive total hip replacement on hip reaction forces and their orientations.](#) T Weber, **AA. Al-Munajjed**, B Verkerke, T Renkawitz, S Dendorfer. **Journal of Orthopaedic Research** Volume 32, Issue 12, pages 1680–1687, December 2014
- [Is the rotation of the femoral head a potential initiation for cutting out? A theoretical and experimental approach.](#) Lenich A, Bachmeier S, Prantl L, Nerlich M, Hammer J, Mayr E, **Al-Munajjed** AA, Füchtmeier B. BMC Musculoskelet Disord. 2011 Apr 22;12:79.
- [The healing of bony defects by cell-free collagen-based scaffolds compared to stem cell-seeded tissue engineered constructs.](#) Lyons FG, **Al-Munajjed** AA, Kieran SM, Toner ME, Murphy CM, Duffy GP, O'Brien FJ. Biomaterials. 2010 Dec;31(35):9232-43. Epub 2010 Sep 22.
- [Influence of a novel calcium-phosphate coating on the mechanical properties of highly porous collagen scaffolds for bone repair.](#) **Al-Munajjed** AA, O'Brien FJ. J Mech Behav Biomed Mater. 2009 Apr;2(2):138-46. Epub 2008 May 17.
- [Development of a biomimetic collagen-hydroxyapatite scaffold for bone tissue engineering using a SBF immersion technique.](#) **Al-Munajjed** AA, Plunkett NA, Gleeson JP, Weber T, Jungreuthmayer C, Levingstone T, Hammer J, O'Brien FJ. J Biomed Mater Res B Appl Biomater. 2009 Aug;90(2):584-91.
- [Deformation simulation of cells seeded on a collagen-GAG scaffold in a flow perfusion bioreactor using a sequential 3D CFD-elastostatics model.](#) Jungreuthmayer C, Jaasma MJ, **Al-Munajjed** AA, Zanghellini J, Kelly DJ, O'Brien FJ. Med Eng Phys. 2009 May;31(4):420-7. Epub 2008 Dec 23.
- [A comparative study of shear stresses in collagen-glycosaminoglycan and calcium phosphate scaffolds in bone tissue-engineering bioreactors.](#) Jungreuthmayer C, Donahue SW, Jaasma MJ, **Al-Munajjed** AA, Zanghellini J, Kelly DJ, O'Brien FJ. Tissue Eng Part A. 2009 May;15(5):1141-9.
- [Influence of pore size on tensile strength, permeability and porosity of hyaluronan-collagen scaffolds.](#) **Al-Munajjed** AA, Hien M, Kujat R, Gleeson JP, Hammer J. J Mater Sci Mater Med. 2008 Aug;19(8):2859-64. Epub 2008 Mar 18.
- [First clinical and biomechanical results of the Trochanteric Fixation Nail \(TFN\).](#) Lenich A, Fierlbeck J, **Al-Munajjed** A, Dendorfer S, Mai R, Füchtmeier B, Mayr E, Hammer J. Technol Health Care. 2006;14(4-5):403-9.

## AUSGEWÄHLTE EINGELADENE KONFERENZVORTRÄGE:

- **11/2019 AA Al-Munajjed;** [Antibakteriell wirkende Beschichtungen auf Human- bzw. VeterinärImplantaten.](#) Plasma Germany Meeting 2019
- **11/2018 AA Al-Munajjed** P Steinrück; [Plasmabeschichtung zur Infektionsvermeidung in der Endoprothetik.](#) Fachtagung Biomaterialien zur Infektionsbekämpfung 2018
- **07/2014 J Rasmussen and AA. Al-Munajjed;** [Making A-FOOTPRINT: A Musculoskeletal Foot/Ankle Model with 50 Degrees-of-Freedom for Arthroplasty and Orthotics.](#) World Congress of Biomechanics Boston, USA.
- **01/2014 J Rasmussen, M S Andersen, AA Al-Munajjed, J Rausch, A Upmann, I Fischbein, D Klocke;** [H-point simulation in musculoskeletal models of seating](#) Digital Human Modeling Conference Tokyo
- **08/2013 S Tørholm, S Carbes, J Rasmussen, AA Al-Munajjed** [The Glasgow-Maastricht AnyBody Foot Model to predict internal loads in the foot.](#) European Orthopedic Society, Venice 2013

## AUSGEWÄHLTE KONFERENZVORTRÄGE:

- **05/2016 MA Dharia, JE Bishoff, J Woodburn, S Telfer and AA Al-Munajjed;** Loading Across Metatarsal Osteotomy Using Musculoskeletal Model BMES/FDA Frontiers in Medical Devices Conference, May 23-25, 2016, College Park, Maryland, USA.
- **07/2015 AA Al-Munajjed, J Rasmussen and M Damsgaard** [Simulation of impingement and micro-separation for total hip replacements during stair climbing.](#) Conference of the International Society of Biomechanics, Glasgow, Scotland 2015.
- **07/2015 MA Dharia, JE Bishoff, J Woodburn, S Telfer and AA Al-Munajjed;** [Influence of Patient and Surgical Variability on Loading Across a Cuneiform Osteotomy.](#) Annual Summer Meeting of the American Orthopaedic Foot & Ankle Society 2015, At Long Beach, CA.
- **03/2015 JE Bishoff, MA Dharia, J Woodburn, S Telfer and AA Al-Munajjed;** [Statistical Assessment Of Load Variations Across Osteotomies In The Foot.](#) Annual Summer Meeting of the American Orthopaedic Foot & Ankle Society 2015, At Long Beach, CA.
- **10/2014 AA Al-Munajjed, D Nolte, J Rasmussen and S Dendorfer** [Force distribution in the foot during braking -a musculoskeletal approach.](#) Human Modeling and Simulation in Automotive Engineering, Munich.
- **07/2014 AA Al-Munajjed, D Nolte, PE Galibarov, M Damsgaard and J Rasmussen;** [Development of an Automated Validation Report For Musculoskeletal Models.](#) World Congress of Biomechanics Boston, USA.
- **09/2013: A Petrella, J Rasmussen, AA Al Munajjed, M Damsgaard, ME Lund, A Kiis.** [How Good is Good Enough? Lessons in Musculoskeletal Model Validation With the Anybody Modeling System](#) ASME 2013 Conference on Frontiers in Medical Devices
- **08/2013 M Jung, S Carbes, J Rasmussen, S Telfer, J Woodburn, K Meijer, M Oosterwaal, AA Al-Munajjed** [Comparison of mid foot forces between flatfoot and metatarsalgia patients using the Glasgow-Maastricht AnyBody foot model.](#) 7th Asian Pacific Conference on Biomechanics, Seoul, Korea 2013.
- **01/2013 D Nolte, MS Anderson, J Rasmussen and AA Al-Munajjed;** [Development of a patient-specific musculoskeletal model of a healthy knee to analyze hard and soft tissue loading.](#) Orthopedic Research Society, computational methods in Medical Engineering, San Antonio, USA 2013.
- **09/2011 PE Galibarov, A Al-Munajjed, S Tørholm and J Rasmussen;** ISTA, Bruges, 2011.
- **12/2008 AA Al-Munajjed, F Lyons and FJ O'Brien;** TERMIS NA in San Diego, USA 2008
- **06/2008 AA Al-Munajjed, J Gleeson and FJ O'Brien;** Worldcongress of Biomaterials in Amsterdam, 2008
- **12/2007 AA Al-Munajjed, J Gleeson and FJ O'Brien;** International Conference on Mechanics of Biomaterials and Tissue in Lihue, USA 2007
- **09/2007 AA Al-Munajjed, J Gleeson and FJ O'Brien;** Tissue Engineering and Regenerative Medicine International Society Meeting 2007 in London, United Kingdom 2007
- **10/2005 A Lenich, AA Al-Munajjed, J Fierlbeck, R Mai, B Fuchtmeier, E Mayr, M Nerlich and J Hammer;** Alterstrauma, Münster, Germany, 2005
- **07/2005 A Lenich, J. Fierlbeck, AA Al-Munajjed, S Dendorfer, B Fuchtmeier, E Mayr, J Hammer and M Nerlich;** Biomaterialien, Munich, Germany, 2005

