

Date prepared April 16, 2017
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Date of birth July 16, 1954
Place of birth Kaiserslautern, Germany

1 Education

1972 Higher education entrance qualification
1983 Medical license, Doctor of Medicine (Dr. med.)
Doctoral thesis "Loading of the patella"
1992 Postdoctoral Teaching Thesis for Trauma Surgery (Habilitation) „Injuries of the thoracolumbar spine. A biomechanical and clinical study.”

2 Postdoctoral Training

1983–2000 Department for Trauma Surgery, Hannover Medical School, Hannover, Germany (Director: Prof. Dr. H. Tscherne).
1989 Orthopaedic Department Kantonsspital St. Gallen, Switzerland (Prof. Dr. F. Magerl)
1997 Travel Scholarship German Trauma Society: Mayo-Clinic, Rochester, MN, (Prof. Dr. B. Morrey)

3 Academic Appointments

1997 Associated Professor at Hannover Medical School
2000- Professor and Director Department of Trauma Surgery
Medical University Innsbruck, Austria

4 Institutional Appointments

1996-2000 Executive Vice-Chairman Department of Trauma Surgery, Hannover
2007-2015 Member, Central Commission for Quality Management, Medical University Innsbruck
2012-2014 Managing Director Department for Surgical Medicine
Medical University Innsbruck
2012- Member, Center for Applied Biotechnology and Molecular Medicine (CABBM), University of Zürich, Switzerland
2014- Member, Core Facility MicroCT, Medical University Innsbruck
2017- Chair, Conference for Unification of the Departments for Orthopaedic and Trauma Surgery, Medical University Innsbruck

5 Professional Societies

1984-	Member	German Trauma Association (DGU)
1986-2000	Member	Emergency Medicine North Germany
1987-	Founding Member	Society of Spine Surgery (Germany)
1989-	Member	German Society of Surgery (DGC)
1994-2000	Vice-Chairman	Working Group Spine Surgery, German Trauma Association
1994-2000	Council	German Trauma Association
1994-2000	Spokesman	Surgeons that are not in a Chief position German Trauma Association
1995-2003	Member	Working Group Guidelines German Trauma Association
2000-2008	Member	Working Group Guidelines Austrian Trauma Association
2000-	Permanent Member	Council Austrian Trauma Society
2000-	Member	American Academy of Orthopedic Surgeons
2006-2012	Council	European Society for Trauma and Emergency Surgery
2006-	Member	Austrian Society of Emergency Medicine
2007	President	Austrian Trauma Association
2008-	Member	International Society of Fracture Repair
2009-2011	Founding Member	International Geriatric Fracture Society
2009-	Board Member	Fragility Fracture Network
2010-	Member	AOTrauma International, Switzerland
2012-	Member	Working Group Fragility Fractures, German Trauma Society
2013-	Member	Working Group Outcome Measurement, Academy Trauma Surgery, German Trauma Association

6 Major Committee and Working Group Assignments

1993	Member	Working Group Spine, German Section, AOFoundation
1999-2001	Member	Spine Expert Group, AOFoundation
2001-2004	Member	AO Technical Commission
2002	Member	Executive Committee Section Austria (AOÖ)
2005-	Chairman	AOTK Intramedullary Nailing Working Group
2005-2015	Chairman	International AO Clinical Priority Program: "Fracture Fixation in Osteoporotic Bone"
2011-2014	Member	Advisory Board Educational Program Eli Lilly
2010-	Referee	Search Committees Department for Orthopaedics and Traumatology in Zams, Hall in Tirol and Schwaz
2015-2016	International Voting Member	Search Committee, Professorships "Orthopaedic Surgery" and "Trauma Surgery" University Zürich, Switzerland

7 Professional Leadership Roles

1998-	Chairman, Co-Chairman and Faculty of numerous national and international AO-Courses, Seminars and Symposia	
2006-2011	Chairman	AO Trauma Course: Fragility Fractures and Co-Management, Davos
2009-2012	President	AOTrauma Austria
2010-2013	International Program Editor	AOTrauma Orthogeriatrics Program
2011-2017	Research Officer	AOTrauma Europe (3 years term)
2011-2017	Member	AOTrauma Research Commission
2011-2013	Member	AO Exploratory Research Board (3 years term)
2011-	International Program Editor	IM Nailing Work Group: Integration of Intramedullary Nailing (IMN) into AOTrauma Educational Programs
2011-	Member	Performance Improvement Program “Intraoperative Imaging”
2013-2015	Permanent Guest	AO CID Advisory Committee
2014	Principle Investigator	AO Strategy Fund: Ortho-Geriatric E-Hub

8 Editorial Boards

1997-	Editorial Board	Orthopaedics and Traumatology (Operative Orthopädie und Traumatologie), Germany
1998-	Editorial Board	Der Unfallchirurg, Germany
2001-	Editor in Chief	Archives of Orthopedic and Trauma Surgery
2001-	Editor in Chief	Orthopaedics and Traumatology (Operative Orthopädie und Traumatologie), Germany
2002-	Editorial Board	Der Chirurg, Germany
2002-2007	Editorial Board	European Spine Journal
2010-	Editorial Board	Geriatric Orthopaedic Surgery & Rehabilitation
2011	Reviewer	Clinical Orthopaedics and Related Research

9 External Examiner for Dissertations, Habilitations, Tenure, and Promotions

University of Basel, Switzerland
University of Zürich, Switzerland
University of Vienna, Austria
University of Graz, Austria
University of Rochester, Rochester, NY
School of Medicine of the University of Missouri, MO
University of Hong Kong, Li Ka Shing Faculty of Medicine
University Leuven, Belgium
University of Minnesota, Medical School, MN

10 Granting and Funding Agencies

Reviewer	Österreichische Nationalbank (Austrian National Bank)
Reviewer	Deutsche Forschungsgemeinschaft (National German Funding Agency)
Reviewer	Fonds zur Förderung der wissenschaftlichen Forschung (National Austrian Funding Agency)

11 Selection of Current Research Activities

(http://www.unfallchirurgie-innsbruck.at/page.cfm?vpath=research/clinical-studies-and-documentation/scientific_projects)

European Union/Integrated Project (Co-Investigator):

DO-HEALTH clinical trial to support healthy aging in European seniors to establish whether vitamin D, omega-3 fatty acids, and a simple home exercise program will prevent disease at older age and thereby prolong healthy life expectancy (<http://do-health.eu/wordpress/>).

German / Swiss / Austrian National Science Foundations (Co-Investigator):

Local bone remodeling and mechano-regulation of fracture healing in healthy, aging and osteoporotic individuals.

AO Foundation (Principle Investigator)

A prospective multicenter cohort study to evaluate the benefit of the geriatric fracture center (GFC) concept.

Novartis (Co-Investigator)

Tendon stiffness as a biomarker to quantify tendon healing after Achilles tendon total rupture.

AO Documentation and Publishing Foundation Clinical Investigation and Documentation (AOCID) (Principle Investigator)

Multicenter prospective randomized controlled study: Philos plate in proximal humerus fractures with or without cement augmentation?

AO Documentation and Publishing Foundation Clinical Investigation and Documentation (AOCID) (Principle Investigator)

Multicenter prospective randomized controlled study: Proximal Femoral Nail in peritrochanteric fractures with or without cement augmentation?

AO Documentation and Publishing Foundation Clinical Investigation and Documentation (AOCID) (Co-Investigator)

Multicenter prospective registry for periprosthetic fractures after hip or knee arthroplasty treated with osteosynthesis.

AOTrauma Austria (Principle Investigator)

Bicentric prospective randomized controlled cohort study

TEN or Locking Plate in multifragmental displaced clavicle fractures?

12 Advisory, Supervisory and Financial Responsibility

PhD-Candidates

(PhD Program Musculoskeletal Sciences Medical University Innsbruck)

Completed

Dietmar Krappinger	Das schwere Beckentrauma - Biomechanische Grundlagen und klinisches Management-2007
Andreas Neurauter	Signal Analysis of the Electrocardiogram and Mechanical Chest Characteristics during Cardiopulmonary Resuscitation - 2008
Ursula Onder	Konstruktion und Bau eines Prüfstands zur Belastung des Humerus-2013
Stefanie Erhart	Construction of a force controlled wrist joint test bench and the biomechanical effects of an increased radial surface cavity - 2013
Susanne Kathrein	Evaluation of treatments for proximal humeral fractures in a shoulder test bench with active muscle forces - 2013
Richard Lindtner	Osteoanabolic effect of alendronate and zoledronate on bone marrow stromal cells (BMSCs) isolated from aged female osteoporotic patients and its implications for their mode of action in the treatment of age-related bone loss - 2014
Alexander Disch	Cement Augmentation in a thoracolumbar fracture model - 04.12.2015
Raul Mayr	Effect of different fixation techniques for the treatment of tibial plateau impression fractures - 2016
Michael Götzen	Implant augmentation in osteoporotic fracture management and the effect on the overlying cartilage - 2016

Ongoing

Alexander Keiler – Article published, Thesis pending
Christoph Raas – Article published, Thesis pending
Konstantin Genelin – Article published, Thesis pending
Clemens Moll – Article published, Thesis pending
Stefan Unger – Article published, Thesis pending
Peter Kaiser – Article under review
Christian Heinrichs – Article under review
Elmar Herbst – Article under review
Martin Eichinger – Article under production
Dominik Knierzinger – Article under production
Davud Malekzadeh – Article under production
Juana Kosiol – Article under production
Ulrich Eger – Start 2016
Anna Spicher – Start 2017
Huy Le Quang – Start 2017
Kerstin Simon – Start 2017

Clinical and Research Fellowships

Supervision of 10 short term (6 weeks to one year) per year international clinical fellows

13 Bibliography

Original Articles	235
https://www.ncbi.nlm.nih.gov/pubmed?term=%22Blauth%20M%22%5BAU%5D	
Book Editor	3
Book Chapters	20

Selection of most important articles 2015-2017

1. Moll CW, Schmiedinger T, Moll MA, Seppi T, Pfaller K, Hess MW, Gutleben K, Lindtner RA, **Blauth M**, Krumschnabel G, Ebner HL. Extracellular matrix mimicking scaffold promotes osteogenic stem cell differentiation: A new approach in osteoporosis research. *Biomed Mater Eng.* 2017;28(2):87-103. doi: 10.3233/BME-171659. PubMed PMID: 28372263.
2. Varga P, Inzana JA, Schwiedrzyk J, Zysset PK, Gueorguiev B, **Blauth M**, Windolf M. New approaches for cement-based prophylactic augmentation of the osteoporotic proximal femur provide enhanced reinforcement as predicted by non-linear finite element simulations. *Clin Biomech (Bristol, Avon).* 2017 Mar 2;44:7-13. doi: 10.1016/j.clinbiomech.2017.03.001. [Epub ahead of print] PubMed PMID: 28282569.
3. Resch H, Krappinger D, Moroder P, Auffarth A, **Blauth M**, Becker J. Treatment of acetabular fractures in older patients- introduction of a new implant for primary total hip arthroplasty. *Arch Orthop Trauma Surg.* 2017 Apr;137(4):549-556. doi: 10.1007/s00402-017-2649-3. Epub 2017 Feb 28. PubMed PMID: 28247009; PubMed Central PMCID: PMC5352747.
4. Malizos K, **Blauth M**, Danita A, Capuano N, Mezzoprete R, Logoluso N, Drago L, Romanò CL. Fast-resorbable antibiotic-loaded hydrogel coating to reduce post-surgical infection after internal osteosynthesis: a multicenter randomized controlled trial. *J Orthop Traumatol.* 2017 Feb 2. doi: 10.1007/s10195-017-0442-2. [Epub ahead of print] PubMed PMID: 28155060.
5. Goetzen M, Hofmann-Fliri L, Arens D, Zeiter S, Eberli U, Richards G, **Blauth M**. Subchondral screw abutment: does it harm the joint cartilage? An in vivo study on sheep tibiae. *Int Orthop.* 2017 Jan 31. doi: 10.1007/s00264-017-3404-7. [Epub ahead of print] PubMed PMID: 28144723.
6. Lems WF, Dreinhöfer KE, Bischoff-Ferrari H, **Blauth M**, Czerwinski E, da Silva J, Herrera A, Hoffmeyer P, Kvien T, Maalouf G, Marsh D, Puget J, Puhl W, Poor G, Rasch L, Roux C, Schüller S, Seriole B, Tarantino U, van Geel T, Woolf A, Wyers C, Geusens P. EULAR/EFORT recommendations for management of patients older than 50 years with a fragility fracture and prevention of subsequent fractures. *Ann Rheum Dis.* 2016 Dec 22. pii: annrheumdis-2016-210289. doi: 10.1136/annrheumdis-2016-210289. [Epub ahead of print] PubMed PMID: 28007756.
7. Hengg C, Euler S, Wambacher M, **Blauth M**, Kralinger F. Regarding "The rotation of the humeral head does not alter radiographic evaluation of the head-shaft angle". *J Shoulder Elbow Surg.* 2016 Nov;25(11):e365-e366. doi: 10.1016/j.jse.2016.07.026. PubMed PMID: 27742251.
8. Kamer L, Noser H, **Blauth M**, Lenz M, Windolf M, Popp AW. Bone Mass Distribution of the Distal Tibia in Normal, Osteopenic, and Osteoporotic Conditions: An Ex Vivo Assessment Using HR-pQCT, DXA, and Computational Modelling. *Calcif Tissue Int.* 2016 Dec;99(6):588-597. Epub 2016 Aug 30. PubMed PMID: 27572994.
9. Gosch M, Hoffmann-Weltin Y, Roth T, **Blauth M**, Nicholas JA, Kammerlander C. Orthogeriatric co-management improves the outcome of long-term care residents with fragility fractures. *Arch Orthop Trauma Surg.* 2016 Oct;136(10):1403-9. doi: 10.1007/s00402-016-2543-4. Epub 2016 Aug 8. PubMed PMID: 27501701; PubMed Central PMCID: PMC5025484.
10. Goetzen M, Ortner K, Lindtner RA, Schmid R, **Blauth M**, Krappinger D. A simple approach for the preoperative assessment of sacral morphology for percutaneous SI screw fixation. *Arch Orthop Trauma Surg.* 2016 Sep;136(9):1251-7. doi: 10.1007/s00402-016-2528-3. Epub 2016 Aug 6. PubMed PMID: 27498107; PubMed Central PMCID: PMC4990614.
11. Kathrein S, Joeris A, Kralinger F, **Blauth M**, Goldhahn J. Significant Differences Between Local Reporting and Central Assessment of Radiographic Complications in a Prospective, Multicenter Study About Locking Plate Fixation of Proximal Humerus Fractures. *J Orthop Trauma.* 2016 Oct;30(10):e336-e339. PubMed PMID: 27327963.
12. Euler SA, Kralinger FS, Hengg C, Wambacher M, **Blauth M**. Allograft augmentation in proximal humerus fractures. *Oper Orthop Traumatol.* 2016 Jun;28(3):153-63. doi: 10.1007/s00064-016-0446-8. Epub 2016 May 24. PubMed PMID: 27221231; PubMed Central PMCID: PMC4906073.
13. Moll MA, Bachmann LM, Joeris A, Goldhahn J, **Blauth M**. Parameters Pointing at an Increased Risk for Contralateral Hip Fractures: Systematic Review. *Geriatr Orthop Surg Rehabil.* 2016 Mar;7(1):45-61. doi: 10.1177/2151458515618490. PubMed PMID: 26929857; PubMed Central PMCID: PMC4748160.

14. Lill M, Attal R, Rudisch A, Wick MC, **Blauth M**, Lutz M. Does MIPO of fractures of the distal femur result in more rotational malalignment than ORIF? A retrospective study. *Eur J Trauma Emerg Surg*. 2016 Dec;42(6):733-740. Epub 2015 Nov 10. PubMed PMID: 26555728.
15. Kathrein S, Joeris A, Kralinger F, **Blauth M**, Goldhahn J. Significant differences between local reporting and central assessment of radiological complications in a prospective, multicenter study about locking plate fixation of proximal humerus fractures. *J Orthop Trauma*. 2015 Sep 22. [Epub ahead of print] PubMed PMID: 26429405.
16. Hofmann-Fliri L, Nicolino TI, Barla J, Gueorguiev B, Richards RG, **Blauth M**, Windolf M. Cement augmentation of implants--no general cure in osteoporotic fracture treatment. A biomechanical study on non-displaced femoral neck fractures. *J Orthop Res*. 2016 Feb;34(2):314-9. doi: 10.1002/jor.22978. Epub 2015 Jul 29. PubMed PMID: 26177609.
17. Mayr R, Attal R, Zwierzina M, **Blauth M**, Schmoelz W. Effect of additional fixation in tibial plateau impression fractures treated with balloon reduction and cement augmentation. *Clin Biomech (Bristol, Avon)*. 2015 Oct;30(8):847-51. doi: 10.1016/j.clinbiomech.2015.05.016. Epub 2015 Jun 11. PubMed PMID: 26094777.

14 Lectures

Scientific Lectures >500

2012 Honorary Lectureship: Mosbach Trauma Lecturer, Hospital for Special Surgery, New York
Fractures in the Elderly with Osteoporosis: What we know and where we are going?

Innsbruck, 21.04.2017



Univ.-Prof. Dr. Michael Blauth