

# Curriculum Vitae

## Personal Details

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Name: Marc **Andreas** Müller  
Academic Degree: Prof. Dr. med.  
Date of Birth: June 22nd.1976  
Nationality: Swiss  
Marital status: married with 2 children  
Research gate: [https://www.researchgate.net/profile/Marc\\_Mueller4](https://www.researchgate.net/profile/Marc_Mueller4)



## Education

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1983-87 Primary school  
1987-95 Secondary school (Gymnasium Bäumlhof Basel)

10.1995-12.2001 **Medical School at the University of Basel**  
01.1999-07.1999 **Semester at the University Pitié-Salpêtrière, Paris**  
Practical courses in neurology and infectious disease  
28.11.2001 **Final exam completed in Basel** (final mark: 5.86, 6= best, 1= worst)

## Postgraduate medical training

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December 2019 **Nomination as a Professor of Orthopaedics and Traumatology (Titularprofessur) at the University of Basel**

September 2018 **3<sup>rd</sup> position (tertio loco) in the application for the Chair of Orthopedics at the University of Fribourg**

March 2018 **Promotion as Deputy head of Orthopedics at the Department of Orthopedics and Traumatology at the University Hospital of Basel**

January 2015 **Promotion as a Leitender Arzt at the Department of Orthopedics and Traumatology at the University Hospital of Basel**

December 2014 **Habilitation in Orthopedics and Traumatology at the University Of Basel: Title "Bone strength and augmentation"**

Since Jan 2012 **Attending Orthopedic Surgeon at the University Hospital of Basel, Switzerland**  
Head of the Upper Extremity Team  
Head of Bethesda side facility

Jan 2011-Dec 2011 **Postdoctoral Research Fellow at the Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA, USA**  
Study on glenohumeral biomechanics in rotator cuff lesions during simulated normal shoulder motions and pitching  
Funding from Swiss national Research Foundation and Swiss Orthopedic Society

Jan.2005-2010 **Orthopedic resident at the University Hospital of Basel, Switzerland**  
**Clinical training:**  
**Hip and knee:** Prof Dick, 6 months  
**Foot and ankle:** Prof. Hintermann, Prof. Dr. Dr. Valderrabano, 1 year  
**Pediatric orthopedics:** Prof. Hefti, 6 months  
**Trauma surgery:** Prof. Regazzoni and Prof Jakob, 6 months  
**Anesthesiology and ICU:** Prof. Scheidegger, 6 months  
**Rotation in a primary orthopedic center in the French speaking part of Switzerland (Hospital of Porrentruy, Canton of Jura, Switzerland)**  
**Upper extremity** PD Dr. Majewski, 12 months

**Scientific training:**

**1 year scientific experience in tissue engineering** (Prof. Ivan Martin):

Adipose tissue derived cells as a source for intraoperative bone tissue engineering (see publications)

**Clinical study on intraoperative bone quality measurement in fragility hip fractures** (see publications)

Jan.2003-Dec.2004

**Residency in General Surgery at Stadtspital Triemli, Zürich, Switzerland**

**Clinical Training:**

General surgery

Cardiac surgery

Urology

Emergency Medicine

Jan.2002-Dec.2002

**Thesis and clinical studies at the AO-Institute Davos, Department of clinical investigation and documentation ( AOCID)**

Thesis on a case based teaching concept in orthopedic surgery and traumatology;

Thesis led to the development of the **AO Surgery Reference** (online available; [www.aotrauma.aofoundation.org](http://www.aotrauma.aofoundation.org))

Clinical study on the AFN (Anterograde femoral Nail)

**Selected postgraduate courses and exams**

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2017	Organization of the third Basel elbow course
2016	Organization of second Basel elbow course Faculty member at the Schulthess Shoulder Academy, Zürich Good clinical practice course (GCP) at the university of Basel
2015	Organization of the first Basel elbow course
2013	Shoulder and Elbow Surgery Course, Balgrist University Zuerich, Switzerland 5 <sup>th</sup> Anecny live surgery international shoulder course, Annecy, France DePuy course on arthroscopic shoulder surgery
2012	Shoulder and Elbow Surgery Course, Balgrist University Zuerich, Switzerland Shoulder and Elbow Surgery Course, DGOOC, Berlin, Germany Zimmer shoulder courses on total shoulder and replacement ATLS Instructor course
2011	USMLE Step 2 CS completed
2010	FMH Title as an Orthopedic Surgeon SGOT Course on Orthotic Devices (Luzern, Switzerland) SGOT Course on Insurance Medicine (Luzern, Switzerland) Swiss Radioprotection Course Promotio Course on biomechanics of the shoulder (Pontresina CH) Innsbruck cadaver course on surgery of the shoulder USMLE Step 2CK completed
2009	Swiss national board examination in orthopedic surgery-passed Clinical Visit at St. Paul's hospital Vancouver
2008	Faculty member in the AO geriatric fracture course (Davos)
2007	Arthroscopy course (German speaking arthroscopic Society) USMLE Step 1 completed
2005	ATLS Course Science and grant writing course (Swiss surgical society) Thesis completed "A case based teaching concept in orthopedic surgery and traumatology"
2004	AO principal Course
2003	Basic exam in surgery

## Supervision of junior researchers at graduate and postgraduate level

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Year	MD Candidate	Title
2007-2010	Beatriz Camilla Mello Kossler	The use of structural and non-structural bone grafts and substitutes in hindfoot and ankle osteotomies and arthrodeses
2007-2013	Flurin Cagienard	Radiographic quantification of DHS migration
2013-2015	Raphael Blum	Complications following arthroscopic rotator cuff repair
2015-2016	Theodor Walz	Complications following total shoulder arthroplasty
2015-2017	Marian Born	Influence of the glenosphere size on the functional outcome after reverse shoulder arthroplasty
2015-current	Quinten Felsch	Classifications of complications following arthroscopic rotator cuff repair
2015-current	Mirela Borovak	How relevant are sports activities for patients after a reversed shoulder arthroplasty? A Swiss perspective

## Selected scientific talks/ abstracts

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### Shoulder and elbow surgery:

#### **Swiss Orthopedics**

2017: What are the indications for a tennis elbow release

#### **Gesellschaft für Arthroskopie und Gelenkchirurgie (AGA)**

2016. Diagnostische Faktoren beeinflussen die beobachtete Häufigkeit von Rotatorenmanschettenrerrupturen nach arthroskopischer Rekonstruktion

2016 Arthroskopischer anteriorer Bankartrepair. Chirurgische Technik.

#### **Swiss Orthopedic Society::**

2012: The effect of scapular winging on glenohumeral translations

#### **Orthopedic Research Society (ORS)**

2012: Evaluation of a robotic apparatus for the analysis of passive glenohumeral joint kinematics

2013 The effect of scapular winging on glenohumeral translations

#### **American Academy of Orthopedic Surgeons (AAOS):**

2014: Platelet concentrate augmentation reduces retear rates after arthroscopic repair of small and medium sized rotator cuff tears

#### **EFFORT Congress**

2014: The Effect Of Supraspinatus Tears On Glenohumeral Translations In Passive Shoulder Motion

### Bone quality, bone augmentation, tissue engineering

#### **Orthopedic Research Society**

2009: Serum-free expansion of adipose-derived cells with platelet-released growth factors

#### **European Surgical Congress:**

2010: Successful one-step engineering of osteogenic grafts with cells freshly isolated from human adipose tissue

#### **European Cell and Materials Congress**

2007: Generation of osteogenic and vasculogenic implants by perfusion culture of adipose tissue-derived cells

#### **Swiss Orthopedics:**

2006: A novel network to prevent fragility fractures in the elderly

2007: From fat to tissue engineered vascularized bone grafts

2008: Prospective evaluation of intraoperative quantification of bone strength

2010: Retrospective analysis on the use of structural and non structural bone grafts and substitutes in hindfoot arthrodesis

2012: A novel technique for the quantification of dynamic hip screw migration and telescoping on two-dimensional radiographs

2013: Does mechanically measured bone strength within the proximal femur predict hip screw migration in vivo? Results from a multicenter trial

**Swiss Surgical Society:**

2008: Towards an intraoperative engineering of osteogenic and vasculogenic bone grafts from the stromal vascular fraction of adipose tissue

**Faculty member at the AO Geriatric Fracture Course 2008, Davos**

**AO UK annual Meeting 2009, Birmingham, United Kingdom:**

Invited Speaker: Prospective Evaluation of intraoperative quantification of bone strength.

**Membership in panels, boards and individual scientific reviewing activities**

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- Member of the scientific committee of the ESKA Congress 2017
- Reviewer for Knee Surgery, Sports Traumatology, Arthroscopy (KSSTA), Journal of Orthopaedic Research (JOR) and Archives of Orthopedic Trauma Surgery (AOTS)
- Reviewer for AO grants 2011- 2014
- Member of the executive committee of the AGA society ( Gesellschaft für Gelenkschirurgie und Arthroskopie)

**Membership in societies**

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- Swiss Society of Orthopaedics and Traumatology (Swiss Orthopedics)
- AGA Society: Gesellschaft für Gelenkschirurgie und Arthroskopie

**Publications** (The five most relevant publications are highlighted in grey boxes)

First and last author in peer reviewed journals : Shoulder and elbow surgery/ biomechanics (IF : Impact factor).

Nr.	Authors / title / journal / issue / pages / year	IF <sup>1</sup>	Ranking <sup>2</sup>
1	Vavken P, Sadoghi P, von Keudell A, Rosso C, Valderrabano V, <b>Müller AM</b> . Rates of radiolucency and loosening after total shoulder arthroplasty with pegged or keeled glenoid components. J Bone Joint Surg Am. 2013 Feb 6;95(3):215-21. doi: 10.2106/JBJS.L.00286.	3.234	3/65 Orthopedics
2	<b>Mueller AM</b> , Entezari V, Rosso C, McKenzie B, Hasebrock A, Cereatti A, Della Croce U, Deangelis JP, Nazarian A, Ramappa AJ. The effect of simulated scapular winging on glenohumeral joint translations. J Shoulder Elbow Surg. 2013 Jan 10. pii: S1058-2746(12)00412-0. doi: 10.1016/j.jse.2012.09.010 *	2.319	14/65 Orthopedics
3	<b>Müller AM</b> , Sadoghi P, Lucas R, Audige L, Delaney R, Klein M, Valderrabano V, Vavken P, <b>Bracing is an effective treatment for elbow stiffness – results from 247 patients.</b> , J Shoulder Elbow Surg. 2013 Aug;22 (8):1146-52. doi: 10.1016/j.jse.2013.04.003. Epub 2013 Jun 22.	2.319	14/65 Orthopedics
4	<b>Mueller AM</b> , Rosso C, Entezari V, McKenzie B, Hasebrock A, Della Croce U, Nazarian A, Ramappa AJ, DeAngelis JP. The Effect of Supraspinatus Tears on Glenohumeral Translations in Passive Pitching Motion. Am J Sports Med. 2014 Sep 8. pii: 0363546514547348.	4.362	2/67 Orthopedics
5	<b>Müller AM</b> , Flury M, Alsayed HN, Audigé L. Influence of patient and diagnostic parameters on reported retear rates after arthroscopic rotator cuff repair. Knee Surg Sports Traumatol Arthrosc. 2017 Mar 2. doi: 10.1007/s00167-017-4481-2. [Epub ahead of print]	3.5	3/67 Orthopedics
6	Müller AM, Born M, Jung C, Flury M, Kolling C, Schwyzer HK, Audigé L. <b>Glenosphere size in reverse shoulder arthroplasty: is larger better for external rotation and abduction strength?</b> J Shoulder Elbow Surg. 2017 Jul 24. pii: S1058-2746(17)30335-X. doi: 10.1016/j.jse.2017.06.002	2.319	14/65 Orthopedics

Co-author in peer reviewed-journals: Shoulder and elbow surgery/biomechanics

Nr.	authors / title / journal / issue / pages / year	IF1	Ranking2
7	Rosso C, <b>Müller AM</b> , Entezari V, Dow WA, McKenzie B, Stanton SK, Li D, Cereatti A, Ramappa AJ, DeAngelis JP, Nazarian A, Della Croce U. Preliminary evaluation of a robotic apparatus for the analysis of passive glenohumeral joint kinematics. J Orthop Surg Res. 2013 Jul 24;8:24. doi: 10.1186/1749-799X-8-24	1.013	40/65 Orthopedics
8	Patrick Vavken, MD MSc FRSPH; Patrick Sadoghi, MD; Julia Quidde, MD; Robert Lucas, MD; Ruth Delaney, MD ; <b>Andreas M Müller, MD</b> ; Claudio Rosso, MD; Victor Valderrabano, MD	2.319	14/65 Orthopedics

	<b>Immobilization in internal or external rotation does not change recurrence rates after traumatic anterior shoulder dislocation.</b> J Shoulder Elbow Surg. 2013 Sep 30. pii: S1058-2746(13)00380-7. doi: 10.1016/j.jse.2013.07.037. [Epub ahead of print]		
9	Entezari V, Trechsel BL, Dow WA, Stanton SK, Rosso C, <b>Müller A</b> , McKenzie B, Vartanians V, Cereatti A, Della Croce U, Deangelis JP, Ramappa AJ, Nazarian A. <b>Design and manufacture of a novel system to simulate the biomechanics of basic and pitching shoulder motion.</b> Bone Joint Res. 2012 May 1;1(5):78-85. Doi: 10.1302/2046-3758.15.2000051. Print 2012 May.	1.640	32/65 Orthopedics
10	Vavken P, Wimmer MD, Smirnov E, Quidde J, Speth B, Müller AM, Valderrabano V. <b>[Evidence-based treatment of combined rotator cuff and SLAP lesions].</b> Z Orthop Unfall. 2013 Oct;151(5):513-9. doi: 10.1055/s-0033-1350793. Epub 2013 Oct 15.	0.652	50/65 Orthopedics
11	Vavken P, <b>Müller AM</b> , Camathias C. <b>First 50 Pediatric and Adolescent Elbow Arthroscopies: Analysis of Indications and Complications.</b> J Pediatr Orthop. 2015 Mar 3. [Epub ahead of print]	1.474	37/65 Orthopedics
12	Vavken P, Sadoghi P, Palmer M, Rosso C, <b>Mueller AM</b> , Szoelloesy G, Valderrabano V. <b>Platelet-Rich Plasma Reduces Retear Rates After Arthroscopic Repair of Small- and Medium-Sized Rotator Cuff Tears but Is Not Cost-Effective.</b> Am J Sports Med. 2015 Mar 12. pii: 0363546515572777. [Epub ahead of print]	5.280	1/65 Orthopedics
13	Audigé L, , Blum R, <b>Mueller AM</b> , Flury M, Durchholz H <b>Complications Following Arthroscopic Rotator Cuff Tear Repair: A Systematic Review of Terms and Definitions With Focus on Shoulder Stiffness</b> Orthopaedic Journal of Sports Medicine, June 2015; vol. 3, 6: 2325967115587861, first published on June 16, 2015		New journal, No IF so far
14	Rosso C, <b>Mueller AM</b> , McKenzie B, Entezari V, Cereatti A, Della Croce U, Ramappa AJ, Nazarian A, DeAngelis JP: <b>Bulk effect of the deltoid muscle on the glenohumeral joint.</b> J Exp Orthop. 2014 Dec;1(1):14. doi: 10.1186/s40634-014-0014-9. Epub 2014 Nov 4		New journal, No IF so far
15	Jacxsens M, Van Tongel A, Henninger HB, De Coninck B, Mueller AM, De Wilde L. <b>A three-dimensional comparative study on the scapulohumeral relationship in normal and osteoarthritic shoulders.</b> J Shoulder Elbow Surg. 2016 Apr 18. pii: S1058-2746(16)00143-9. doi: 10.1016/j.jse.2016.02.035. [Epub ahead of print]	2.412	18/74 Orthopedics
16	Audigé L, Flury M, Müller AM; ARCR CES Consensus Panel, Durchholz H. <b>Complications associated with arthroscopic rotator cuff tear repair: definition of a core event set by Delphi consensus process.</b> J Shoulder Elbow Surg. 2016 Aug 2. pii: S1058-2746(16)30125-2. doi: 10.1016/j.jse.2016.04.036. [Epub ahead of print]	2.412	18/74 Orthopedics
17	Jacxsens M, Walz T, Durchholz H, <b>Müller AM</b> , Flury	1.496	30/65

	M, Schwyzer HK, Audigé L. <b>Towards standardised definitions of shoulder arthroplasty complications: a systematic review of terms and definitions.</b> Arch Orthop Trauma Surg. 2017 Mar;137(3):347-355. doi: 10.1007/s00402-017-2635-9.		Orthopedics
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**Other publications ( non-peer reviewed) : Shoulder and elbow surgery**

Nr.	Autoren / Titel / Zeitschrift / Band / Seitenzahlen / Jahr	IF <sup>1</sup>	Ranking <sup>2</sup> (z.B. 3/34)
18	<b>Andreas M. Müller</b> , Claudio Rosso, Martin Majewski, Victor Valderrabano, <b>Traumatische Schulterinstabilität und Omarthrose</b> , Schweizerische Zeitschrift für «Sportmedizin und Sporttraumatologie», 59 (4),117-120 , 2011		
19	<b>Andreas M. Müller</b> , Patrick Vavken, Claudio Rosso, Victor Valderrabano, <b>Rehabilitation nach Schulteroperationen</b> , Schweizerische Zeitschrift für «Sportmedizin und Sporttraumatologie» 60 (2)/2012		
20	Martin Majewski, <b>Andreas M. Müller</b> , <b>Schulter im Sport</b> , Schweizerische Zeitschrift für «Sportmedizin und Sporttraumatologie», 58 (2); 58-60/2010		
21	Sebastian Niklaus Kunz Benjamin Voit, Stefanie Kasal, Thomas Hasler, <b>Marc Andreas Müller Flexionskraft korreliert mit Abduktionskraft bei der Erhebung des Constant Murley Scores</b> Original Research Article, Sport-Orthopädie - Sport-Traumatologie - Sports Orthopaedics and Traumatology, <b>In Press</b> ., Available online 14 November 2013		
22	<b>Andreas M. Müller</b> , Claudio Rosso, Patrick Vavken <b>Die Rolle von platelet rich plasma in der Rotatorenmanschettenrekonstruktion</b> , Leading Opinions Orthopädie und Rheumatologie, 2/14; 6-10		
23	Hahn M, <b>Mueller AM</b> , Valderrabano V, Rosso C, <b>Der Karpaltunnel der Schulter / The Carpal Tunnel of the Shoulder: Die arthroskopische Dekompression des N. suprascapularis</b> Sport-Orthopädie - Sport-Traumatologie - Sports Orthopaedics and Traumatology 30(3) · August 2014		
24	Audigé L, <b>Mueller AM</b> , Flury M, Blum R, Durchholz H. <b>Chirurgische Komplikationen nach arthroskopischer Rotatorenmanschettenrekonstruktion – Standardisierung der Terminologie und Definitionen</b> , Sports Orthopaedics and Traumatology Volume 31, Issue 2, June 2015, Page 165 DOI: <a href="http://dx.doi.org/10.1016/j.orthtr.2015.03.018">http://dx.doi.org/10.1016/j.orthtr.2015.03.018</a>		
25	<b>Andreas Marc Müller</b> , Sebastian Andreas Müller, Christian Stelzenbach. <b>Tennis-und Golferellenbogen</b> . Schweizerische Zeitschrift für «Sportmedizin und Sporttraumatologie», 63 (4); 2015; 24-30		

**First and last author in peer reviewed journals : other orthopedic topics**

Nr.	Authors / title / journal / issue / pages / year	IF <sup>1</sup>	Ranking <sup>2</sup> (z.B. 3/34)
26	<b>Müller AM</b> , Davenport M, Verrier S, Droeser R, Alini M, Bocelli-Tyndall C, Schaefer DJ, Martin I, Scherberich A: <b>Platelet lysate as a serum substitute for 2D static and 3D perfusion culture of stromal vascular fraction cells from human adipose tissue.</b> Tissue Eng Part A. 2009 Apr;15(4):869-75.	4.636	5/13 Cell and tissue engineering

27	<b>Müller AM</b> , Mehrkens A, Schäfer DJ, Jaquiere C, Güven S, Jakob M, Martin I, Scherberich A: <b>Towards an intraoperative engineering of osteogenic and vasculogenic grafts from the stromal vascular fraction of human adipose tissue.</b> <i>Eur Cell Mater.</i> 2010 Mar 3;19:127-35.	3.028	7/25 Material Science, Biomaterials
28	<b>Mueller MA</b> , Hengg C, Hirschmann M, Schmid D, Sprecher C, Audigé L, Suhm N. <b>Mechanical torque measurement for in vivo quantification of bone strength in the proximal femur.</b> <i>Injury.</i> 2012 Oct;43(10):1712-7. doi:10.1016/j.injury.2012.06.014. Epub 2012 Jul 12.	2.174	17/65 Orthopedics
29	Audige L, Cagienard F, Sprecher CM, Suhm N, <b>Mueller AM</b> <b>Radiographic quantification of dynamic hip screw migration,</b> <i>Int Orthop.</i> 2014 Apr;38(4):839-45. doi: 10.1007/s00264-013-2146-4. Epub 2013 Oct 22.	2.319	14/65 Orthopedics
30	Suhm N, Haenni M, Schwyn R, Hirschmann M, <b>Müller AM</b> <b>Quantification of bone strength by intraoperative torque measurement: a technical note.</b> <i>Arch Orthop Trauma Surg.</i> 2008 Feb 23	1.37	30/65 Orthopedics
31	<b>Müller MA</b> , Frank A, Briel M, Valderrabano V, Vavken P, Entezari V, Mehrkens A. <b>Substitutes of structural and non-structural autologous bone grafts in hindfoot arthrodeses and osteotomies: a systematic review.</b> <i>BMC Musculoskelet Disord.</i> 2013 Feb 7;14:59. doi: 10.1186/1471-2474-14-59.	1.875	24/65 Orthopedics
32	Mehrkens A, <b>Müller AM (shared first authorship)</b> Valderrabano V, Schären S, Vavken P. <b>Tissue engineering approaches to degenerative disc disease--a meta-analysis of controlled animal trials.</b> <i>Osteoarthritis Cartilage.</i> 2012 Nov; 20(11):1316-25. doi: 10.1016/j.joca.2012.06.001. Epub 2012 Jul 9.	4.262	2/65 Orthopedics
33	<b>Müller MA</b> , Mehrkens A, Zürcher R, Vavken P, Valderrabano V. <b>Effectiveness of the addition of Lidocaine to a hemostatic, bioresorbable putty in the treatment of iliac crest donor site pain.</b> <i>BMC Musculoskelet Disord.</i> 2014 Dec 8;15:415. doi: 10.1186/1471-2474-15-415	1.717	30/65 Orthopedics
34	<b>Müller MA</b> , Hengg C, Krettek C, van der Velde D, Eberdorfer S, Stange R, Hofman GO, Platz A, Suhm N. <b>Trabecular bone strength is not an independent predictor factor for dynamic hip screw migration-A prospective multicenter cohort study.</b> <i>J Orthop Res.</i> 2015 Nov; 33 (11):1680-6, doi 10.1002/jor.22934.	2.807	9/65 Orthopedics
35	Müller SA, Barg A, Vavken P, Valderrabano V, <b>Müller AM</b> <b>Autograft versus sterilized allograft for lateral calcaneal lengthening osteotomies: Comparison of 50 patients.</b> <i>Medicine (Baltimore).</i> 2016 Jul;95(30): doi:10.1097/MD.0000000000004343.	1.206	77/151 Medicine

#### Co-author in peer reviewed-journals: Other topics

Nr.	authors / title / journal / issue / pages / year	IF1	Ranking2 (z.B. 3/34)
36	Rosso C, Vavken P, Polzer C, Buckland DM, Studler U, Weisskopf L, Lottenbach M, <b>Müller AM</b> , Valderrabano V. <b>Long-term outcomes of muscle volume and Achilles tendon length after Achilles tendon ruptures.</b> 2013 Jun;21(6):1369-77. doi: 10.1007/s00167-013-2407-1. <i>Knee Surg Sports Traumatol Arthrosc</i>	2.2	14/65 Orthopedics
37	Mehrkens A, Saxer F, Güven S, Hoffmann W, <b>Müller AM</b> , Jakob	4.558	3/25



	M, Weber FE, Martin I, Scherberich A. <b>Intraoperative engineering of osteogenic grafts combining freshly harvested, human adipose-derived cells and physiological doses of bone morphogenetic protein-2.</b> <i>Eur Cell Mater.</i> 2012 Sep 28;24:308-19		<b>Material Science, Biomaterials</b>
<b>38</b>	Hirschmann M, <b>Müller A</b> , Frank M, Conzelmann M, Tyndall A, Regazzoni P, Dick W, Jakob M, Suhm N <b>Tertiary prevention after osteoporotic fracture—practical implementations in the clinical routine as a quality assurance measure</b> <i>Z Orthop Ihre Grenzgeb.</i> 2006 Sep-Oct;144(5):448-51	<b>0.561</b>	<b>39/48 Orthopedics</b>

#### Case Reports, Reviews, Editorials, Letters to the Editor in Peer Reviewed-Journals

<b>Nr.</b>	<b>authors / title / journal / issue / pages / year</b>	<b>IF<sup>1</sup></b>	<b>Ranking<sup>2</sup></b> (z.B. 3/34)
<b>39</b>	Scherberich A, <b>Müller AM</b> , Schäfer DJ, Banfi A, Martin I. <b>Adipose tissue-derived progenitors for engineering osteogenic and vasculogenic grafts.</b> <i>J Cell Physiol.</i> 2010 Nov;225(2):348-53. doi: 10.1002/jcp.22313.	<b>3.874</b>	<b>70/181</b> Cell Biology
<b>40</b>	Valderrabano V, Pagenstert GI, <b>Müller AM</b> , Paul J, Henninger HB, Barg A. <b>Mobile- and fixed-bearing total ankle prostheses: is there really a difference?</b> <i>Foot Ankle Clin.</i> 2012 Dec;17(4):565-85. doi: 10.1016/j.fcl.2012.08.005. Epub 2012 Oct 12	<b>0.899</b>	<b>44/65</b> Orthopaedics
<b>41</b>	Barg A, Pagenstert GI, Leumann AG, <b>Müller AM</b> , Henninger HB, Valderrabano V. <b>Treatment of the arthritic valgus ankle.</b> <i>Foot Ankle Clin.</i> 2012 Dec;17(4):647-63. doi: 10.1016/j.fcl.2012.08.007. Epub 2012 Sep 18.	<b>0.899</b>	<b>44/65</b> Orthopaedics

#### Book chapters

<b>Nr.</b>	<b>authors / title / journal / issue / pages / year</b>
<b>42</b>	<b>Müller AM</b> , Mehrkens A, <b>Orthobiologics in der Fuss- und Sprunggelenkschirurgie</b> in Fuss, & Sprunggelenk und Sport, Deutscher Ärzteverlag, ISBN 978-3-7691-1258-0, Seiten 232-243
<b>43</b>	<b>Müller AM</b> , Mehrkens A, <b>Laufsport; Verletzungen, Ätiologie und Pathomechanismen</b> in Fuss, & Sprunggelenk und Sport, Deutscher Ärzteverlag, ISBN 978-3-7691-1258-0, Seiten 281-284
<b>44</b>	<b>Mueller AM</b> , Szöllösy G, <b>Arthroscopic Anatomy in Ultrasound, Anatomy and Arthroscopy of the Shoulder: high resolution sonoanatomy, sonohistology and sonopathology atlas - anatomy and arthroscopy of the shoulder</b> , Books on Demand; Auflage: 2 (9. Juli 2015)
<b>45</b>	<b>Müller AM, Rosso C, Anatomie und Biomechanik der Rotatorenmanschette</b> , in die Sehne, Leitfaden zur Behandlung von Sehnenpathologien. De Gruyter Verlag, ISBN 3110427281

## Detailed record of teaching activities

### Teaching for master and bachelor medical students

Year	Hours(h), Days(d)	Teaching activity	University
1996	30h	Auxiliary tutor in human physiology	Basel
2010	2h	Problem based learning tutorial	
	4h	Tutorial for patient-doctor interaction	
	2d	Master tutorial in sports orthopaedics (held in Kerenzerberg, GL, CH)	
2011	18h	Integrated human physiology course (including problem based learning)	Harvard Medical School, Boston MA, USA
	12h	Human body course (including anatomic dissections and tutorials in histology)	
2012	4h	Tutorial for patient - doctor interactions	Basel
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	
2013	4h	Tutorial for patient - doctor interactions	
	2d	Master tutorial in sports orthopaedics (held in Kerenzerberg, GL, CH)	
	12h	Tutorial in scientific writing (Wissenschaftsmonat)	
	2h	Lecture „physical exam of the musculoskeletal system“	
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	
2014	4h	Tutorial for patient - doctor interactions	
	2d	Master tutorial in sports orthopaedics (held in Kerenzerberg, GL, CH)	
	12h	Tutorial in scientific writing (Wissenschaftsmonat)	
	2h	Lecture „physical exam of the musculoskeletal system“	
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	
2015	4h	Tutorial for patient - doctor interactions	
	12h	Tutorial in scientific writing (Wissenschaftsmonat)	
	2h	Lecture „physical exam of the musculoskeletal system“	
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	
2015	4h	Tutorial for patient - doctor interactions	
	12h	Tutorial in scientific writing (Wissenschaftsmonat)	
	2h	Lecture „physical exam of the musculoskeletal system“	
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	
2016	4h	Tutorial for patient - doctor interactions	
	2h	Lecture „physical exam of the musculoskeletal system“	
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	

<b>2017</b>	4h	Tutorial for patient - doctor interactions	<b>Basel</b>
	2h	Lecture „physical exam of the musculoskeletal system“	
	1h	Lecture „shoulder and ac- joint pathologies“	
	12h	Master course on the physical exam of the musculoskeletal system	

### Postgraduate Teaching

(Including relevant invited lectures /presentations at (inter)national congresses/courses)

Year	Hours (h) Days (d)	Teaching activity	Place
<b>2008</b>	3d	Faculty member at the AO Geriatric Fracture Course	<b>Davos</b>
<b>2009</b>	1h	AO UK annual Meeting 2009. Presentation on intraoperative quantification of bone strength	<b>Birmingham</b>
<b>2012</b>		Establishment of the weekly “Update-Ortho –Trauma Hand” Course” for general practitioners	<b>Basel</b>
<b>2013</b>	2d	Instructor at the Advanced Trauma Life Support Course	<b>Engelberg</b>
	1h	Summer meeting of the “Gesellschaft für Orthopädisch Traumatologische Sportmedizin (GOTS) “. Lecture on the treatment of shoulder instability in young patients	
	0.5h	Swiss Society for Sports Medicine: Lecture on lateral and medial epicondylopathy	
<b>2014</b>	1d	Faculty member at Basel course on joint infiltration techniques	<b>Basel</b>
	1h	Jubilee congress of the Orthopedic Department of the University Hospital Basel. Presentations on the role of the scapula in shoulder rehabilitation. Lecture on bone grafts and substitutes in orthopaedic surgery.	
	0.5h	Annual Basel symposium on children orthopedics: Lecture on biomechanics of the soft bone.	
<b>2015</b>	2d	Organizer of the first Basel Course on Surgery of the Elbow. Participation as a faculty member	<b>Basel</b>
	1d	Organization of the winter meeting of the “Gesellschaft für Orthopädisch Traumatologische Sportmedizin (GOTS) “. Lecture on arthroscopic Bankart repair	
	1h	Summer meeting of the “Gesellschaft für Orthopädisch Traumatologische Sportmedizin (GOTS) “. Lecture on overuse injuries of the shoulder.	
	1d	Faculty member at Basel course on joint infiltration techniques	
<b>2016</b>	2d	Organizer of the second Basel Course on Surgery of the Elbow. Participation as a faculty member	<b>Zürich</b>
	2d	Faculty member at the Schulthess Shoulder Course: Lecture on the treatment of proximal humerus fractures	
	3h	6th Great Update of the swiss society for general and internal medicine (SGAIM); tutorial on physical exam of the shoulder	<b>Interlaken</b>
	0.5h	Swiss surgical society seminar for board exam candidates. Lecture on fractures of the humerus.	<b>Basel</b>
	1d	Faculty member at Basel course on joint infiltration techniques	
	1h	Faculty member at the AGA congress. Lecture on arthroscopic Bankart repair. Case discussions.	

<b>2017</b>	2d	Organizer of the third Basel Course on Surgery of the Elbow. Participation as a faculty member	<b>Basel</b>
	1d	Faculty member at Basel course on joint infiltration techniques	
	0.5h	Swiss surgical society seminar for board exam candidates. Lecture on fractures of the humerus	
	2d	Faculty member at the AO course on surgical approaches in trauma surgery	<b>Basel</b>
	1h	Summer meeting of the "Gesellschaft für Orthopädisch Traumatologische Sportmedizin (GOTS)". Lecture on surgical techniques for medial elbow instability.	<b>Brunnen</b>
	3h	7th Great Update of the Swiss Society for General and Internal Medicine (SGAIM); tutorial on physical exam of the shoulder, knee and hip	<b>Lausanne</b>
	1/4h	Swiss Orthopaedics Congress: Presentation on lateral epicondylopathy	<b>St. Gallen</b>