
BIOGRAPHICAL SKETCH

NAME			
Schmitz, Christoph			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
RWTH Aachen University, Aachen, Germany	M.D.	1993	Medicine
RWTH Aachen University, Aachen, Germany	Dr.med.	1994	Anatomy
RWTH Aachen University, Aachen, Germany	Habilitation	2001	Anatomy

A. Positions and Honors.

1994-1994 "Arzt im Praktikum" (Junior House Officer), Department of Surgery, Lindenberg District Hospital, Germany
1995-1995 "Arzt im Praktikum" (Junior House Officer) and "Wissenschaftlicher Angestellter" (equivalent to Post-Doc), Department of Anatomy, Johann-Wolfgang Goethe-University, Frankfurt/Main, Germany
1996-1999 "Wissenschaftlicher Angestellter", Department of Anatomy and Cell Biology, RWTH University of Aachen, Germany
2000-2002 "Wissenschaftlicher Assistent" (equivalent to Assistant Professor), Department of Anatomy and Cell Biology, RWTH University of Aachen, Germany
2002-2003 "Wissenschaftlicher Oberassistent" (equivalent to Assistant Professor), Department of Anatomy, University of Rostock, Germany
2001-2003 Assistant Professor (20%; tenure-track), Department of Psychiatry and Neuropsychology, University of Maastricht, Netherlands
2003-2008 Assistant Professor (Tenured, 100%), Department of Psychiatry and Neuropsychology, University of Maastricht, Netherlands
2007- Adjunct Professor, RWTH Aachen University, Faculty of Medicine, Aachen, Germany
2008-2009 Vice President / International Business Development Manager Orthopaedics EMS S.A. (Electro Medical Systems), Nyon, Switzerland
2009- Adjunct Professor, Mount Sinai School of Medicine, Department of Neurosciences, New York, NY, USA
2010- Medical Scientific Officer (Electro Medical Systems), Nyon, Switzerland

Professional Memberships

1995 Member, Anatomische Gesellschaft (Anatomical Society), Germany
2000 Member, Society for Neuroscience
2006 Member of the Editorial Board of Acta Neuropathologica
2006 Member of the Editorial Board of Brain Research
2007 Member of the Editorial Board of Autism Research
2008 Member of the Editorial Board of Frontiers in Neuroanatomy

Honors

1996 Best Thesis Award, RWTH Aachen University School of Medicine, Aachen, Germany

B. Selected peer-reviewed publications (in chronological order).

(Publications in the field of extracorporeal shockwave therapy, selected from > 100 peer-reviewed publications)

1. Maier M., Steinborn M., Staebler A., Koehler S., Schmitz C., Pfahler M., Duerr H.R., Refior H.J. (2000) Extracorporeal shockwave application for chronic plantar fasciitis - prediction of outcome by imaging? J. Rheumatol. 27, 2455-2462.

2. Maier M., Saisu T., Beckmann J., Delius M., Grimm F., Hupertz V., Milz S., Nerlich A., Refior H.J., Schmitz C., Ueberle F., Weiler C., Messmer K. (2001) Impaired tensile strength after shock wave application in an animal model of tendon calcification. *Ultrasound Med. Biol.* 27, 665-671.
3. Maier M., Stähler A., Schmitz C., Lienemann A., Köhler S., Dürr H.R., Pfahler M., Refior H.J. (2001) On the impact of calcified deposits within the rotator cuff tendons in shoulders of patients with shoulder pain and dysfunction. *Arch. Orthop. Trauma Surg.* 7, 371-378.
4. Maier M., Steinborn M., Schmitz C., Stähler A., Köhler S., Veihelmann A., Pfahler M., Refior H.J. (2001) Extracorporeal shockwave therapy for chronic lateral tennis elbow - prediction of outcome by imaging. *Arch. Orthop. Trauma Surg.* 7, 379-387.
5. Gerdesmeyer L., Maier M., Haake M., Schmitz C. (2002) Physikalisch-technische Grundlagen der extrakorporalen Stoßwellentherapie [Physical and technical principles of shock wave therapy]. *Orthopäde* 31, 610-617.
6. Maier M., Milz S., Tischer T., Münzing W., Manthey N., Stähler A., Holzknecht N., Weiler C., Nerlich A., Refior H.J., Schmitz C. (2002) Influence of extracorporeal shock wave application on normal bone in an in-vivo animal model. Scintigraphic, magnetic resonance imaging and histopathological evaluations. *J. Bone Joint Surg. GB* 84, 592-599.
7. Maier M., Milz S., Weiler C., Nerlich A., Schmitz C., Refior H.J. (2002) Dose-related effects of extracorporeal shock waves on rabbit quadriceps tendon integrity. *Arch. Orthop. Trauma Surg.* 122, 436-441.
8. Maier M., Milz S., Wirtz D.C., Rompe J.D., Schmitz C. (2002) Grundlagenforschung zur Applikation extrakorporaler Stoßwellen am Stütz- und Bewegungsapparat - eine Standortbestimmung [Basic research on the application of extracorporeal shock waves to the locomotor system: current state]. *Orthopäde* 31, 667-677.
9. Maier M., Tischer T., Anetzberger H., Gerdesmeyer L., Pellengahr C., Schulz C., Schmitz C., Michalke B. (2002) Mineralogische Analyse röntgenologisch definierter Verkalkungen bei Patienten mit chronischer Tendinosis calcarea der Rotatorenmanschette [Mineral analysis of roentgenologically defined calcifications in patients with chronic calcifying tendinitis of the rotator cuff]. *Z. Orthop. Grenzgeb.* 140, 399-403.
10. Tischer T., Milz S., Anetzberger H., Müller P., Wirtz D.C., Schmitz C., Ueberle F., Maier M. (2002) Extrakorporale Stoßwellen induzieren ventral-periostale Knochenneubildung außerhalb der Fokuszone - Ergebnisse einer in-vivo Untersuchung am Tiermodell [Extracorporeal shock waves induce ventral-periosteal new bone formation out of the focus zone - results of an in-vivo animal trial]. *Z. Orthop. Grenzgeb.* 140, 281-285.
11. Maier M., Averbeck B., Milz S., Refior H.J., Schmitz C. (2003) Substance P and prostaglandin E2 release after shock wave application to the rabbit femur. *Clin. Orthop.* (406), 237-245.
12. Maier M., Freed J.A., Milz S., Pellengahr C., Schmitz C. (2003) Nachweis von Knochenfragmenten in Lungengefäßen nach hochenergetischer Stoßwellenapplikation am distalen Femur in einem In-vivo-Tiermodell [Detection of bone fragments in pulmonary vessels following extracorporeal shock wave application to the distal femur in an in-vivo animal model]. *Z. Orthop. Grenzgeb.* 141, 223-226.
13. Maier M., Schmitz C., Refior H.J. (2003) Extracorporeal shock wave application in the treatment of pseudarthrosis. A critical clinical update. *Eur. J. Trauma* 29, 262-267.
14. Hausdorf J., Schmitz C., Averbeck B., Maier M. (2004) Molekulare Grundlagen zur schmerzvermittelnden Wirkung extrakorporaler Stoßwellen [Molecular basis for pain mediating properties of extracorporeal shock waves]. *Schmerz* 18, 492-497.
15. Maier M., Hausdorf J., Tischer T., Milz S., Weiler C., Refior H.J., Schmitz C. (2004) Knochenneubildung durch extrakorporale Stoßwellen Einfluss der Energieflussdichte [New bone formation by extracorporeal shock waves. Dependence of induction on energy flux density]. *Orthopäde* 33, 1401-1410.
16. Hausdorf J., Lemmens M.A.M., Kaplan S., Marangoz C., Milz S., Odaci E., Korr H., Schmitz C., Maier M. (2008) Extracorporeal shockwave application to the distal femur of rabbits diminishes the number of neurons immunoreactive for substance P in dorsal root ganglia L5. *Brain Res.* 1207, 96-101.
17. Tischer T., Milz S., Weiler C., Pautke C., Hausdorf J., Schmitz C., Maier M. (2008) Dose-dependent new bone formation by extracorporeal shock wave application on the intact femur of rabbits. *Eur. Surg. Res.* 41, 44-53.

18. Hausdorf J., Lemmens M.A.M., Heck K.D.W., Grolms N., Korr H., Kertschanska S., Steinbusch H.W.M., Schmitz C., Maier M. (2008) Selective loss of unmyelinated nerve fibers after extracorporeal shockwave application to the musculoskeletal system. *Neuroscience* 155, 138-144.
19. Maier M., Schmitz C. (2008) Shock wave therapy: what really matters. *Ultrasound Med. Biol* 34, 1868-1869
20. Schmitz C., DePace R. (2009) Pain relief by extracorporeal shockwave therapy: an update on the current understanding. *Urol Res* 37, 231-234.
21. Ibrahim Ibrahim M., Donatelli R.A., Schmitz C., Hellman M., Buxbaum F. (2009) Successful treatment of chronic plantar fasciitis with two sessions of radial extracorporeal shock wave therapy. *Foot Ankle Int.*: in press.