

# American Journal of Sports Medicine: Author Spotlight

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## January Featured Author

Posted on [January 4, 2016](#) by [ajsmauthorspotlight](#)



**Henning Madry, MD**  
Professor of  
Orthopaedic  
Research, Saarland  
University, Germany  
Director of the Center  
of Experimental  
Orthopaedics at  
Saarland University,  
Germany

From the January issue: [Small-Diameter Awls Improve Articular Cartilage Repair After Microfracture Treatment in a Translational Animal Model](#)  
**Podcast:** Listen to Dr. Madry discuss his article in the January issue.

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Henning Madry, MD, a native of Germany, is a clinician-scientist. Dr. Madry is a tenured Professor of Orthopaedic Research at Saarland University. He studied Medicine at Charité Medical School in Berlin. He received his MD in 1996 from Humboldt University in Berlin, under the mentorship of Detlev Ganten, MD, PhD. Dr. Madry began his residency training at the Department of Trauma Surgery, Charité, Berlin from 1996-98. His postdoctoral research fellowship was at the Massachusetts General Hospital, Harvard Medical School in Boston with Stephen B. Trippel, MD from 1998-2000, and also at Massachusetts Institute of Technology with Gordana Vunjak-Novakovic and Bob Langer. In 2000, Henning Madry joined Saarland University, Germany, established the Laboratory of Experimental Orthopaedics and continued his residency. In 2004 he was board-certified in Orthopaedic Surgery. Since 2009 he is a tenured full professor and Director of the Center of Experimental Orthopaedics at Saarland University. He holds a secondary appointment as an attending physician in the Department of Orthopaedic Surgery at Saarland University.

Dr. Madry directs a multidisciplinary research program, which focuses on translational orthopaedic research. His research program aims at translating novel molecular, cell biology and tissue engineering approaches into clinical applications in orthopaedic surgery with a focus on osteochondral regeneration. He specializes in knee surgery, and has specific expertise in advanced regenerative surgical treatments for cartilage defects.

Henning Madry, along with his team, has published over 120 papers, has lectured extensively, and is the Founding Editor-in-Chief of the Journal of Experimental Orthopaedics, the official basic science journal of the European Society of Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA). He serves on the editorial boards of Scientific Reports, Tissue Engineering, eCM – eCells & Materials Journal, and KSSTA. Dr. Madry is the Scientific Program Chair for the 2016 ICRS congress.

### **Selected Other Published Work in *AJSM***

[Small-Diameter Awls Improve Articular Cartilage Repair After Microfracture Treatment in a Translational Animal Model.](#) Orth P, Duffner J, Zurakowski D, Cucchiari M, Madry H. *Am J Sports Med.* 2016 in press

[Overexpression of TGF- \$\beta\$  via rAAV-Mediated Gene Transfer Promotes the Healing of Human Meniscal Lesions Ex Vivo on Explanted Menisci.](#) Cucchiari M, Schmidt K, Frisch J, Kohn D, Madry H. *Am J Sports Med.* 2015:1197-205.

[Small subchondral drill holes improve marrow stimulation of articular cartilage defects.](#) Eldracher M, Orth P, Cucchiari M, Pape D, Madry H. *Am J Sports Med.* 2014 Nov;42(11):2741-50.

[Direct FGF-2 gene transfer via recombinant adeno-associated virus vectors stimulates cell proliferation, collagen production, and the repair of experimental lesions in the human ACL.](#) Madry H, Kohn D, Cucchiari M. *Am J Sports Med.* 2013 Jan;41(1):194-202.

Effect of subchondral drilling on the microarchitecture of subchondral bone: analysis in a large animal model at 6 months. Orth P, Goebel L, Wolfram U, Ong MF, Gräber S, Kohn D, Cucchiarini M, Ignatius A, Pape D, Madry H. *Am J Sports Med.* 2012 Apr;40(4):828-36.

Menisci are efficiently transduced by recombinant adeno-associated virus vectors in vitro and in vivo. Madry H, Cucchiarini M, Kaul G, Kohn D, Terwilliger EF, Trippel SB. *Am J Sports Med.* 2004 Dec;32(8):1860-5.

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