

Publications MSK Research, Department of Radiology, UK Erlangen 2018-2021

(peer reviewed and PubMed-listed)

2018

1. Devezza LA, Kraus VB, Collins JE, Guermazi A, **Roemer FW**, Nevitt MC, Hunter DJ. Is synovitis detected on non-contrast-enhanced magnetic resonance imaging associated with serum biomarkers and clinical signs of effusion? Data from the Osteoarthritis Initiative. *Scand J Rheumatol.* 2018;47(3):235-242. doi: 10.1080/03009742.2017.1340511.
2. Schnaiter JW, **Roemer F**, McKenna-Kuettner A, Patzak HJ, May MS, Janka R, Uder M, Wuest W. Diagnostic Accuracy of an MRI Protocol of the Knee Accelerated Through Parallel Imaging in Correlation to Arthroscopy. 2018;190(3):265-272. doi: 10.1055/s-0043-119038.
3. Haj-Mirzaian A, Guermazi A, **Roemer FW**, Bowes MA, Conaghan PG, Demehri S. Bisphosphonates intake and its association with changes of periarticular bone area and three-dimensional shape: data from the Osteoarthritis Initiative (OAI). *Osteoarthritis Cartilage.* 2018;26(4):564-568. doi: 10.1016/j.joca.2018.01.005.
4. Crema MD, Jarraya M, Engebretsen L, **Roemer FW**, Hayashi D, Domingues R, Skaf AY, Guermazi A. Imaging-detected acute muscle injuries in athletes participating in the Rio de Janeiro 2016 Summer Olympic Games. *Br J Sports Med.* 2018;52(7):460-464. doi: 10.1136/bjsports-2017-098247..
5. Guermazi A, Kalsi G, Niu J, Crema MD, Copeland RO, Orlando A, Noh MJ, **Roemer FW**. Structural effects of intra-articular TGF- β 1 in moderate to advanced knee osteoarthritis: MRI-based assessment in a randomized controlled trial. *BMC Musculoskelet Disord.* 2017 Nov 16;18(1):461. doi: 10.1186/s12891-017-1830-8.
6. Jarraya M, Crema MD, Engebretsen L, Teytelboym OM, Hayashi D, **Roemer FW**, Skaf AY, Guermazi A. Epidemiology of imaging-detected tendon abnormalities in athletes participating in the Rio de Janeiro 2016 Summer Olympics. *Br J Sports Med.* 2018;52(7):465-469. doi: 10.1136/bjsports-2017-098187
7. Kraus VB, Collins JE, Charles HC, Pieper CF, Whitley L, Losina E, Nevitt M, Hoffmann S, **Roemer F**, Guermazi A, Hunter DJ; OA Biomarkers Consortium. Predictive Validity of Radiographic Trabecular Bone Texture in Knee Osteoarthritis: The Osteoarthritis Research Society International/Foundation for the National Institutes of Health Osteoarthritis Biomarkers Consortium. *Arthritis Rheumatol.* 2018;70(1):80-87. doi: 10.1002/art.40348.
8. Hart HF, Crossley KM, Felson D, Jarraya M, Guermazi A, **Roemer F**, Lewis B, Torner J, Nevitt M, Stefanik JJ. Relation of meniscus pathology to prevalence and worsening of patellofemoral joint osteoarthritis: the multicenter osteoarthritis study. *Osteoarthritis Cartilage.* 2018;26(7):912-919. doi: 10.1016/j.joca.2017.11.017.
9. **Roemer FW**, Kwoh CK, Fujii T, Hannon MJ, Boudreau RM, Hunter DJ, Eckstein F, John MR, Guermazi A. From early radiographic knee osteoarthritis to joint arthroplasty: Determinants of structural progression and symptoms. *Arthritis Care Res (Hoboken).* 2018 Dec;70(12):1778-1786. doi: 10.1002/acr.23545.
10. Wangenstein A, Guermazi A, Tol JL, **Roemer FW**, Hamilton B, Alonso JM, Whiteley R, Bahr R. New MRI muscle classification systems and associations with return to sport after acute hamstring injuries: a prospective study. *Eur Radiol.* 2018 28(8):3532-3541. doi: 10.1007/s00330-017-5125-0.
11. Kwee RM, Hafezi-Nejad N, **Roemer FW**, Zikria BA, Hunter DJ, Guermazi A, Demehri S. Association of Muroid Degeneration of the Anterior Cruciate Ligament at MR Imaging with Medial Tibiofemoral Osteoarthritis Progression at Radiography: Data from the Osteoarthritis Initiative. *Radiology.* 2018;287(3):912-921. doi: 10.1148/radiol.2018171565. Epub 2018 Feb 21.
12. Kumar N, Hafezi-Nejad N, Guermazi A, Haj-Mirzaian A, Haugen IK, **Roemer FW**, Demehri S. Association of Quantitative and Topographic Assessment of Heberden's Nodes with Knee Osteoarthritis: Data from Osteoarthritis Initiative. *Arthritis Rheumatol.* 2018;70(8):1234-1239. doi: 10.1002/art.40463.

13. Guermazi A, Hayashi D, Jarraya M, Crema MD, Bahr R, Roemer FW , Grangeiro J, Budgett RG, Soligard T, Domingues R, Skaf A, Engebretsen L. Sports Injuries at the Rio de Janeiro 2016 Summer Olympics: Use of Diagnostic Imaging Services. <i>Radiology</i> . 2018;287(3):922-932. doi: 10.1148/radiol.2018171510.
14. Wasserman MS, Guermazi A, Jarraya M, Engbretsen L, AbdelKader M, Roemer FW , Hayashi D, Crema MD, Mian AZ. Evaluation of spine MRIs in athletes participating in the Rio de Janeiro 2016 Summer Olympic Games. <i>BMJ Open Sport Exerc Med</i> . 2018 Mar 8;4(1):e000335. doi: 10.1136/bmjsem-2017-000335
15. Haj-Mirzaian A, Guermazi A, Hafezi-Nejad N, Sereni C, Hakky M, Hunter DJ, Zikria B, Roemer FW , Demehri S. Superolateral Hoffa's fat pad (SHFP) oedema and patellar cartilage volume loss: quantitative analysis using longitudinal data from the Foundation for the National Institute of Health (FNIH) Osteoarthritis Biomarkers Consortium. <i>Eur Radiol</i> . 2018;28(10):4134-4145. doi: 10.1007/s00330-018-5334-1.
16. Kiefer LS, Fabian J, Lorbeer R, Machann J, Storz C, Kraus MS, Wintermeyer E, Schlett C, Roemer F , Nikolaou K, Peters A, Bamberg F. Inter- and intra-observer variability of an anatomical landmark-based, manual segmentation method by MRI for the assessment of skeletal muscle fat content and area in subjects from the general population. <i>Br J Radiol</i> . 2018;91(1089):20180019. doi: 10.1259/bjr.20180019.
17. Haj-Mirzaian A, Guermazi A, Hakky M, Sereni C, Zikria B, Roemer FW , Tanaka MJ, Cosgarea AJ, Demehri S. Tibial tuberosity to trochlear groove distance and its association with patellofemoral osteoarthritis-related structural damage worsening: data from the osteoarthritis initiative. <i>Eur Radiol</i> . 2018;28(11):4669-4680. doi: 10.1007/s00330-018-5460-9.
18. Ratzlaff C, Ashbeck EL, Guermazi A, Roemer FW , Duryea J, Kwoh CK. Quantitative metric for knee osteoarthritis: reference values of joint space loss. <i>Osteoarthritis Cartilage</i> . 2018;26(9):1215-1224. doi: 10.1016/j.joca.2018.05.014.
19. Kiefer LS, Fabian J, Rospleszcz S, Lorbeer R, Machann J, Storz C, Kraus MS, Schlett CL, Roemer F , Wintermeyer E, Rathmann W, Nikolaou K, Peters A, Bamberg F. Assessment of the degree of abdominal myosteatosis by magnetic resonance imaging in subjects with diabetes, prediabetes and healthy controls from the general population. <i>Eur J Radiol</i> . 2018;105:261-268. doi: 10.1016/j.ejrad.2018.06.023.
20. Heiss R, Guermazi A, Jarraya M, Engebretsen L, Roemer FW . The epidemiology of MRI-detected pelvic injuries in athletes in the Rio de Janeiro 2016 Summer Olympics. <i>Eur J Radiol</i> . 2018;105:56-64. doi: 10.1016/j.ejrad.2018.05.029.
21. Rego-Pérez I, Blanco FJ, Roemer FW , Guermazi A, Ran D, Ashbeck EL, Fernández-Moreno M, Oreiro N, Hannon MJ, Hunter DJ, Kwoh CK. Mitochondrial DNA haplogroups Associated with MRI-Detected Structural Damage in Early Knee Osteoarthritis. <i>Osteoarthritis Cartilage</i> . 2018;26(11):1562-1569. doi: 10.1016/j.joca.2018.06.016.
22. Koppel AJ, Murakami AM, Engebretsen L, Forster BB, Lotfi M, Jarraya M, Hayashi D, Roemer FW , Crema MD, Guermazi A. MRI-Detected Sports-Related Knee Injuries and Abnormalities at the Rio De Janeiro 2016 Summer Olympic Games. <i>AJR Am J Roentgenol</i> . 2018;211(4):880-886. doi: 10.2214/AJR.17.19334.
23. Murakami AM, Koppel AJ, Engebretsen L, Li X, Forster BB, Crema MD, Hayashi D, Jarraya M, Roemer FW , Guermazi A. The epidemiology of MRI detected shoulder injuries in athletes participating in the Rio de Janeiro 2016 Summer Olympics. <i>BMC Musculoskelet Disord</i> . 2018 Aug 17;19(1):296. doi: 10.1186/s12891-018-2224-2.
24. Watt FE, Corp N, Kingsbury SR, Frobell R, Englund M, Felson DT, Levesque M, Majumdar S, Wilson C, Beard DJ, Lohmander LS, Kraus VB, Roemer F , Conaghan PG, Mason DJ; Arthritis Research UK Osteoarthritis and Crystal Disease Clinical Study Group Expert Working Group. Towards prevention of post-traumatic osteoarthritis: report from an international expert working group on considerations for the

design and conduct of interventional studies following acute knee injury. <i>Osteoarthritis Cartilage</i> . 2019;27(1):23-33. doi: 10.1016/j.joca.2018.08.001.
25. Svensson F, Felson DT, Zhang F, Guermazi A, Roemer FW , Niu J, Aliabadi P, Neogi T, Englund M. Meniscal body extrusion and cartilage coverage in middle-aged and elderly without radiographic knee osteoarthritis. <i>Eur Radiol</i> . 2019;29(4):1848-1854. doi: 10.1007/s00330-018-5741-3
26. Culvenor AG, Segal NA, Guermazi A, Roemer F , Felson DT, Nevitt MC, Lewis CE, Stefanik JJ. The sex-specific influence of quadriceps weakness on worsening patellofemoral and tibiofemoral cartilage damage: the MOST Study. <i>Arthritis Care Res (Hoboken)</i> . 2019;71(10):1360-1365. doi: 10.1002/acr.23773.
27. Serner A, Weir A, Tol JL, Thorborg K, Roemer F , Guermazi A, Yamashiro E, Hölmich P. Characteristics of acute groin injuries in the adductor muscles - a detailed MRI study in athletes. <i>Scand J Med Sci Sports</i> . 2018;28(2):667-676. doi: 10.1111/sms.12936.
2019
28. Berlinberg A, Ashbeck EL, Roemer FW , Guermazi A, Hunter DJ, Westra J, Trost J, Kwoh CK. Diagnostic performance of knee physical exam and participant-reported symptoms for MRI-detected effusion-synovitis among participants with early or late stage knee osteoarthritis: data from the Osteoarthritis Initiative. <i>Osteoarthritis Cartilage</i> . 2019;27(1):80-89. doi: 10.1016/j.joca.2018.09.004.
29. Roemer FW , Englund M, Turkiewicz A, Struglics A, Guermazi A, Stefan Lohmander L, Larsson S, Frobell R. Molecular and structural biomarkers of inflammation at 2 years after acute anterior cruciate ligament injury do not predict structural knee osteoarthritis at 5 years. <i>Arthritis Rheumatol</i> . 2019;71(2):238-243. doi: 10.1002/art.40687. Epub 2018 Dec 4.
30. Voinier D, Neogi T, Stefanik JJ, Guermazi A, Roemer FW , Thoma LM, Master H, Nevitt MC, Lewis CE, Torner J, White DK. Using Cumulative Load to Explain How Body Mass Index and Daily Walking Relate to Worsening Knee Cartilage Damage Over Two Years: The MOST Study. <i>Arthritis Rheumatol</i> . 2019 Nov 29. doi: 10.1002/art.41181. [Epub ahead of print]
31. Alizai H, Engebretsen L, Jarraya M, Roemer FW , Guermazi A. Elbow Injuries Detected on Magnetic Resonance Imaging in Athletes Participating in the Rio de Janeiro 2016 Summer Olympic Games. <i>J Comput Assist Tomogr</i> . 2019 Nov/Dec;43(6):981-985. doi: 10.1097/RCT.0000000000000929
32. Türk M, Nagel AM, Roemer F , Schlötzer-Schrehardt U, Thiel CT, Winterholler M, Schröder R. Camptocormia as the presenting symptom in sporadic late onset nemaline myopathy: a case report. <i>BMC Musculoskelet Disord</i> . 2019 Nov 20;20(1):553. doi: 10.1186/s12891-019-2942-0.
33. Wirth W, Maschek S, Roemer FW , Sharma L, Duda GN, Eckstein F. Radiographically normal knees with contralateral joint space narrowing display greater change in cartilage transverse relaxation time than those with normal contralateral knees: a model of early OA? - data from the Osteoarthritis Initiative (OAI). <i>Osteoarthritis Cartilage</i> . 2019;27(11):1663-1668. doi: 10.1016/j.joca.2019.06.013.
34. Boesen M, Roemer FW , Østergaard M, Maas M, Terslev L, Guermazi A. Imaging of Common Rheumatic Joint Diseases Affecting the Upper Limbs. <i>Radiol Clin North Am</i> . 2019;57(5):1001-1034. doi: 10.1016/j.rcl.2019.03.007.
35. Roemer FW , Eckstein F, Duda GN, Guermazi A, Maschek S, Wirth W. Baseline structural tissue pathology is not strongly associated with longitudinal change in transverse relaxation time (T2) in knees without osteoarthritis. <i>Eur J Radiol</i> . 2019 Sep;118:161-168. doi: 10.1016/j.ejrad.2019.07.013. Epub 2019 Jul 20.
36. Haj-Mirzaian A, Mohajer B, Guermazi A, Conaghan PG, Lima JAC, Blaha MJ, Bingham CO, Roemer FW , Cao X, Demehri S. Statin Use and Knee Osteoarthritis Outcome Measures according to the

Presence of Heberden Nodes: Results from the Osteoarthritis Initiative. <i>Radiology</i>. 2019;293(2):396-404. doi: 10.1148/radiol.2019190557.
37. Crema MD, Krivokapic B, Guermazi A, Grailovic P, Popovic N, D'Hooghe P, Roemer FW. MRI of ankle sprain: the association between joint effusion and structural injury severity in a large cohort of athletes. <i>Eur Radiol</i>. 2019;29(11):6336-6344. doi: 10.1007/s00330-019-06156-1.
38. Shakoor D, Guermazi A, Kijowski R, Fritz J, Roemer FW, Jalali-Farahani S, Demehri S. Cruciate ligament injuries of the knee: A meta-analysis of the diagnostic performance of 3D MRI. <i>J Magn Reson Imaging</i>. 2019;50(5):1545-1560. doi: 10.1002/jmri.26713.
39. Shakoor D, Kijowski R, Guermazi A, Fritz J, Roemer FW, Jalali-Farahani S, Eng J, Demehri S. Diagnosis of Knee Meniscal Injuries by Using Three-dimensional MRI: A Systematic Review and Meta-Analysis of Diagnostic Performance. <i>Radiology</i>. 2019;290(2):435-445. doi: 10.1148/radiol.2018181212.
40. Haj-Mirzaian A, Mohajer B, Guermazi A, Shakoor D, Haugen IK, Roemer FW, Demehri S. Heberden's Nodes and Knee Osteoarthritis-related Osseous Structural Damage: Exploratory Study from the Foundation for the National Institute of Health. <i>Arthritis Rheumatol</i>. 2019 Jun;71(6):935-940. doi: 10.1002/art.40811.
41. Svensson F, Felson DT, Turkiewicz A, Guermazi A, Roemer FW, Neuman P, Englund M. Scrutinizing the cut-off for "pathological" meniscal body extrusion on knee MRI. <i>Eur Radiol</i> 2019;29(5):2616-2623 doi: 10.1007/s00330-018-5914-0.
42. Gerhalter T, Gast LV, Marty B, Martin J, Trollmann R, Schüssler S, Roemer F, Laun FB, Uder M, Schröder R, Carlier PG, Nagel AM. ²³Na MRI Depicts Early Changes in Ion Homeostasis in Skeletal Muscle Tissue of Patients With Duchenne Muscular Dystrophy. <i>J Magn Reson Imaging</i>. 2019 Oct;50(4):1103-1113. doi: 10.1002/jmri.26681.
43. Heiss R, Guermazi A, Jarraya M, Engebretsen L, Hotfiel T, Parva P, Roemer FW. Prevalence of MRI-Detected Ankle Injuries in Athletes in the Rio de Janeiro 2016 Summer Olympics. <i>Acad Radiol</i>. 2019;26(12):1605-1617. doi: 10.1016/j.acra.2019.02.001
44. Eckstein F, Maschek S, Roemer FW, Duda GN, Sharma L, Wirth W. Cartilage loss in radiographically normal knees depends on radiographic status of the contralateral knee - data from the Osteoarthritis Initiative. <i>Osteoarthritis Cartilage</i>. 2019;27(2):273-277. doi: 10.1016/j.joca.2018.10.006.
45. Haj-Mirzaian A, Guermazi A, Pishgar F, Pourvaziri A, Roemer FW, Sereni C, Hakky M, Zikria B, Stefanik JJ, Demehri S. Association of patella alta with worsening of patellofemoral osteoarthritis-related structural damage: data from the Osteoarthritis Initiative. <i>Osteoarthritis Cartilage</i>. 2019;27(2):278-285. doi: 10.1016/j.joca.2018.10.013.
46. Macri EM, Felson DT, Ziegler ML, Cooke TDV, Guermazi A, Roemer FW, Neogi T, Torner J, Lewis CE, Nevitt MC, Stefanik JJ. The association of frontal plane alignment to MRI-defined worsening of patellofemoral osteoarthritis: the MOST study. <i>Osteoarthritis Cartilage</i>. 2019;27(3):459-467. doi: 10.1016/j.joca.2018.11.004.
47. Regensburger AP, Fonteyne LM, Jüngert J, Wagner AL, Gerhalter T, Nagel AM, Heiss R, Flenkenthaler F, Qurashi M, Neurath MF, Klymiuk N, Kemter E, Fröhlich T, Uder M, Woelfle J, Rascher W, Trollmann R, Wolf E, Waldner MJ, Knieling F. Detection of collagens by multispectral optoacoustic tomography as an imaging biomarker for Duchenne muscular dystrophy. <i>Nat Med</i>. 2019 Dec;25(12):1905-1915. doi: 10.1038/s41591-019-0669-y. Epub 2019 Dec 2.
48. Hotfiel T, Mayer I, Huettel M, Hoppe MW, Engelhardt M, Lutter C, Pöttgen K, Heiss R, Kastner T, Grim C. Accelerating Recovery from Exercise-Induced Muscle Injuries in Triathletes: Considerations for Olympic Distance Races. <i>Sports (Basel)</i>. 2019 Jun 13;7(6):143. doi: 10.3390/sports7060143.

2020
49. Roemer FW , Collins J, Kwok CK, Hannon MJ, Neogi T, Felson DT, Hunter DJ, Lynch JA, Guermazi A. MRI-based screening for structural definition of eligibility in clinical DMOAD trials: Rapid OsteoArthritis MRI Eligibility Score (ROAMES). <i>Osteoarthritis Cartilage</i> . 2020;28(1):71-81. doi: 10.1016/j.joca.2019.08.005.
50. Haj-Mirzaian A, Guermazi A, Pishgar F, Roemer FW , Sereni C, Hakky M, Zikria B, Demehri S. Patellofemoral morphology measurements and their associations with tibiofemoral osteoarthritis-related structural damage: exploratory analysis on the osteoarthritis initiative. <i>Eur Radiol</i> . 2020;30(1):128-140. doi: 10.1007/s00330-019-06324-3.
51. Shakoob D, Demehri S, Roemer FW , Loeuille D, Felson DT, Guermazi A. Are contrast-enhanced and non-contrast MRI findings reflecting synovial inflammation in knee osteoarthritis: a meta-analysis of observational studies. <i>Osteoarthritis Cartilage</i> . 2020;28(2):126-136. doi: 10.1016/j.joca.2019.10.008.
52. Struglics A, Turkiewicz A, Larsson S, Lohmander LS, Roemer FW , Frobell R, Englund M. Molecular and imaging biomarkers of local inflammation at 2 years after anterior cruciate ligament injury do not associate with patient reported outcomes at 5 years. <i>Osteoarthritis Cartilage</i> . 2020;28(3):356-362. doi: 10.1016/j.joca.2019.12.010.
53. Abdalkader M, Guermazi A, Engebretsen L, Roemer FW, Jarraya M, Hayashi D, Crema MD, Mian AZ. MRI-detected spinal disc degenerative changes in athletes participating in the Rio de Janeiro 2016 Summer Olympics games. <i>BMC Musculoskelet Disord</i> . 2020 Jan 20;21(1):45. doi: 10.1186/s12891-020-3057-3.
54. Li S, Schwartz AV, Lavalley MP, Wang N, Desai N, Sun X, Neogi T, Nevitt M, Lewis CE, Guermazi A, Roemer F , Segal N, Felson D; Multicenter Osteoarthritis Study Group. Association of visceral adiposity with pain, but not structural osteoarthritis. <i>Arthritis Rheumatol</i> . 2020;72(7):1103-1110. doi: 10.1002/art.41222.
55. Treutlein C, Bäuerle T, Nagel AM, Guermazi A, Kleyer A, Simon D, Schett G, Hepp T, Uder M, Roemer FW . Comprehensive assessment of knee joint synovitis at 7 T MRI using contrast-enhanced and non-enhanced sequences. <i>BMC Musculoskelet Disord</i> . 2020 Feb 21;21(1):116. doi: 10.1186/s12891-020-3122-y.
56. Johnson VL, Guermazi A, Roemer FW , Hunter DJ. Association between radiographic anterior cruciate ligament tear and joint symptoms: Data from the osteoarthritis initiative. <i>Int J Rheum Dis</i> . 2020;23(4):576-581. doi: 10.1111/1756-185X.13806.
57. Collins NJ, Neogi T, Vicenzino B, Guermazi A, Roemer FW , Lewis CE, Torner JC, Nevitt MC, Stefanik JJ. Psychological and pain sensitisation characteristics are associated with patellofemoral osteoarthritis symptoms: The Multicenter Osteoarthritis Study. <i>J Rheumatol</i> . 2020;47(11):1696-1703. doi: 10.3899/jrheum.190981.
58. Serner A, Weir A, Tol JL, Thorborg K, Yamashiro E, Guermazi A, Roemer FW , Hölmich P. Associations Between Initial Clinical Examination and Imaging Findings and Return-to-Sport in Male Athletes With Acute Adductor Injuries: A Prospective Cohort Study. <i>Am J Sports Med</i> . 2020;48(5):1151-1159. doi: 10.1177/0363546520908610
59. Dório M, Hunter DJ, Collins JE, Asher R, Eckstein F, Guermazi A, Roemer FW , Devezza LA. Association of baseline and change in tibial and femoral cartilage thickness and development of widespread full-thickness cartilage loss in knee osteoarthritis - data from the Osteoarthritis Initiative. <i>Osteoarthritis Cartilage</i> . 2020;28(6):811-818. doi: 10.1016/j.joca.2020.03.011.

60. Roemer FW , Collins JE, Neogi T, Crema MD, Guermazi A. Association of knee OA structural phenotypes to risk for progression: a secondary analysis from the Foundation for National Institutes of Health Osteoarthritis Biomarkers study (FNIH). <i>Osteoarthritis Cartilage</i> . 2020;28(9):1220-1228. doi: 10.1016/j.joca.2020.05.008.
61. Markman JD, Bolash RB, McAlindon TE, Kivitz AJ, Pombo-Suarez M, Ohtori S, Roemer FW , Li DJ, Viktrup L, Bramson C, West CR, Verburg KM. Tanezumab for chronic low back pain: a randomized, double-blind, placebo- and active-controlled, phase 3 study of efficacy and safety. <i>Pain</i> . 2020;161(9):2068-78. doi: 10.1097/j.pain.0000000000001928.
62. Roemer FW , Eckstein F, Duda G, Guermazi A, Maschek S, Sharma L, Wirth W. Is Laminar Cartilage Composition as Determined by T2 Relaxometry Associated with Incident and Worsening of Cartilage or Bone Marrow Abnormalities? <i>Cartilage</i> . 2020 Jun 12:1947603520932197. doi: 10.1177/1947603520932197. Online ahead of print.
63. Roemer FW , Kraines J, Aydemir A, Wax S, Hochberg MC, Crema MD, Guermazi A. Evaluating the structural effects of intra-articular sprifermin on cartilage and non-cartilaginous tissue alterations, based on sqMRI assessment over 2 years. <i>Osteoarthritis Cartilage</i> . 2020;28(9):1229-1234. doi: 10.1016/j.joca.2020.05.015.
64. Ahmad Z, Murakami AM, Engebretsen L, Jarraya M, Roemer FW , Guermazi A, Koppel AJ. Knee cartilage damage and concomitant internal derangement on MRI in athletes competing at the Rio de Janeiro 2016 Summer Olympics. <i>Eur J Radiol Open</i> . 2020 Sep 11;7:100258. doi: 10.1016/j.ejro.2020.100258. eCollection 2020
65. Haj-Mirzaian A, Mohajer B, Guermazi A, Roemer FW , Zikria B, Demehri S. Kneeling as a risk factor of patellofemoral joint cartilage damage worsening: an exploratory analysis on the Osteoarthritis Initiative. <i>Eur Radiol</i> . 2020 Oct 2. doi: 10.1007/s00330-020-07337-z. Online ahead of print.
66. Pishgar F, Guermazi A, Roemer FW , Link TM, Demehri S. Conventional MRI-based subchondral trabecular biomarkers as predictors of knee osteoarthritis progression: data from the Osteoarthritis Initiative. <i>Eur Radiol</i> . 2020 Nov 25. doi: 10.1007/s00330-020-07512-2. Online ahead of print.
67. Zikria B, Rinaldi J, Guermazi A, Haj-Mirzaian A, Pishgar F, Roemer FW , Hakky M, Sereni C, Demehri S. Lateral patellar tilt and its longitudinal association with patellofemoral osteoarthritis-related structural damage: Analysis of the osteoarthritis initiative data. <i>Knee</i> . 2020;27(6):1971-1979. doi: 10.1016/j.knee.2020.11.002.
68. Wisser A, Lapper A, Roemer F , Fuerst D, Maschek S, Wirth W, Duda GN, Eckstein F. Longitudinal Change in Knee Cartilage Thickness and Function in Subjects with and without MRI-Diagnosed Cartilage Damage. <i>Cartilage</i> . 2020 Dec 24:1947603520980157. doi: 10.1177/1947603520980157. Online ahead of print.
69. Gielis WP, Weinans H, Nap FJ, Roemer FW , Foppen W. Scoring Osteoarthritis Reliably in Large Joints and the Spine Using Whole-Body CT: OsteoArthritis Computed Tomography-Score (OACT-Score). <i>J Pers Med</i> . 2020 Dec 22;11(1):E5. doi: 10.3390/jpm11010005.
70. Snoeker BA, Roemer FW , Turkiewicz A, Lohmander S, Frobell RB, Englund M. Does early anterior cruciate ligament reconstruction prevent development of meniscal damage? Results from a secondary analysis of a randomised controlled trial. <i>Br J Sports Med</i> . 2020;54(10):612-617.doi: 10.1136/bjsports-2019-101125.
71. Hart HF, Gross KD, Crossley KM, Barton CJ, Felson DT, Guermazi A, Roemer F , Segal NA, Lewis CE, Nevitt MC, Stefanik JJ. Step Rate and Worsening of Patellofemoral and Tibiofemoral Joint Osteoarthritis in Women and Men: The Multicenter Osteoarthritis Study. <i>Arthritis Care Res (Hoboken)</i> . 2020 Jan;72(1):107-113. doi: 10.1002/acr.23864. [Epub ahead of print]

72. Gerhalter T, Marty B, Gast LV, Porzelt K, Heiss R , Uder M, Schwab S, Carlier PG, Nagel AM, Türk M. Quantitative ^1H and ^{23}Na muscle MRI in Facioscapulohumeral muscular dystrophy patients. J Neurol. 2020 Oct 12. doi: 10.1007/s00415-020-10254-2. Online ahead of print.
73. Pasurka M, Lutter C, Hoppe MW, Heiss R , Gaulrapp H, Ernstberger A, Engelhardt M, Grim C, Forst R, Hotfiel T. Ankle flossing alters periarticular stiffness and arterial blood flow in asymptomatic athlete. J Sports Med Phys Fitness. 2020 Nov;60(11):1453-1461. doi: 10.23736/S0022-4707.20.10992-7. Epub 2020 Jun 23.
74. Hüttel M, Golditz T, Mayer I, Heiss R , Lutter C, Hoppe MW, Engelhardt M, Grim C, Seehaus F, Forst R, Hotfiel T. Effects of Pre- and Post-Exercise Cold-Water Immersion Therapy on Passive Muscle Stiffness. Sportverletz Sportschaden. 2020 May 27. doi: 10.1055/a-1186-7484. Online ahead of print.
2021
75. Hunter DJ, Deveza LA, Collins JE, Losina E, Nevitt MC, Roemer FW , Guermazi A, Bowes MA, Dam EB, Eckstein F, Lynch JA, Katz JN, Kwoh CK, Hoffmann S, Kraus VB. Multivariable modeling of biomarker data from the phase 1 Foundation for the NIH Osteoarthritis Biomarkers Consortium. Arthritis Care Res (Hoboken). 2021 Jan 9. doi: 10.1002/acr.24557. Online ahead of print.
76. Zhai G, Sun X, Randell EW, Liu M, Wang N, Tolstykh I, Rahman P, Torner J, Lewis CE, Nevitt MC, Guermazi A, Roemer F , Felson DT. Phenylalanine Is a Novel Marker for Radiographic Knee Osteoarthritis Progression: The MOST Study. J Rheumatol. 2021;48(1):123-128. doi: 10.3899/jrheum.200054.
77. Hotfiel T, Hoppe MW, Heiss R , Lutter C, Tischer T, Forst R, Hammer CM, Freiwald J, Engelhardt M, Grim C. Quantifiable Contrast-Enhanced Ultrasound Explores the Role of Protection, Rest, Ice (Cryotherapy), Compression and Elevation (PRICE) Therapy on Microvascular Blood Flow. Ultrasound Med Biol. 2021 Feb 4:S0301-5629(21)00009-0. doi: 10.1016/j.ultrasmedbio.2021.01.003.
78. Jarraya M, Heiss R , Duryea J, Nagel AM, Lynch JA, Guermazi A, Weber MA, Arkudas A, Horch RE, Uder M, Roemer FW. Bone Structure Analysis of the Radius Using Ultrahigh Field (7T) MRI: Relevance of Technical Parameters and Comparison with 3T MRI and Radiography. Diagnostics (Basel). 2021 Jan 12;11(1):110. doi: 10.3390/diagnostics11010110.
79. Wagner AL, Danko V, Federle A, Klett D, Simon D, Heiss R , Jüngert J, Uder M, Schett G, Neurath MF, Woelfle J, Waldner MJ, Trollmann R, Regensburger AP, Knieling F. Precision of handheld multispectral optoacoustic tomography for muscle imaging. Photoacoustics. 2020 Nov 11;21:100220. doi: 10.1016/j.pacs.2020.100220. eCollection 2021 Mar.

Reviews, Editorials, Comments and Letters 2018-2021	
(peer reviewed and PubMed-listed)	
2018	
1.	Hayashi D, Li X, Murakami AM, Roemer FW , Trattnig S, Guermazi A. Understanding Magnetic Resonance Imaging of Knee Cartilage Repair: A Focus on Clinical Relevance. <i>Cartilage</i> . 2018;9(3):223-236. . doi: 10.1177/1947603517710309.
2.	Hayashi D, Roemer FW , Guermazi A. Imaging of osteoarthritis-recent research developments and future perspective. <i>Br J Radiol</i> . 2018;91(1085):20170349. doi: 10.1259/bjr.20170349.
3.	Jarraya M, Diaz LE, Roemer FW , Arndt WF, Goud AR, Guermazi A. MRI Findings Consistent with Peripatellar Fat Pad Impingement: How Much Related to Patellofemoral Maltracking? <i>Magn Reson Med Sci</i> . 2018;17(3):195-202. doi: 10.2463/mrms.rev.2017-0063.
4.	Serner A, Pope D, Weir A, Tol JL, Thorborg K, Roemer FW , Guermazi A, Hölmich P. Infographic. Can standardised clinical examination of athletes with acute groin injuries predict the presence and location of MRI findings? <i>Br J Sports Med</i> 2018;52(14):892-893. doi: 10.1136/bjsports-2017-098534.
5.	Roemer FW , Kwoh CK, Hayashi D, Felson DT, Guermazi A. The role of radiography and MRI for eligibility assessment in DMOAD trials of knee OA. <i>Nat Rev Rheumatol</i> . 2018;14(6):372-380. doi: 10.1038/s41584-018-0010-z. Review.
6.	Hayashi D, Roemer FW , Guermazi A. Recent advances in research imaging of osteoarthritis with focus on MRI, ultrasound and hybrid imaging. <i>Clin Exp Rheumatol</i> . 2018 Sep-Oct;36 Suppl 114(5):43-52. Review.
7.	Hotfiel T, Freiwald J, Hoppe MW, Lutter C, Forst R, Grim C, Bloch W, Hüttel M, Heiss R . Advances in Delayed-Onset Muscle Soreness (DOMS): Part I: Pathogenesis and Diagnostics. <i>Sportverletz Sportschaden</i> . 2018 Dec;32(4):243-250. doi: 10.1055/a-0753-1884. Epub 2018 Dec 11.
8.	Hotfiel T, Heiss R , Swoboda B, Kellermann M, Gelse K, Grim C, Strobel D, Wildner D. Contrast-Enhanced Ultrasound as a New Investigative Tool in Diagnostic Imaging of Muscle Injuries-A Pilot Study Evaluating Conventional Ultrasound, CEUS, and findings in MRI. <i>Clin J Sport Med</i> . 2018 Jul;28(4):332-338. doi: 10.1097/JSM.0000000000000470.
2019	
9.	Heiss R, Janka R, Uder M, Nagel AM, Trattnig S, Roemer FW . Update cartilage imaging of the small joints : Focus on high-field MRI. <i>Radiologe</i> . 2019;59(8):732-741. doi: 10.1007/s00117-019-0521-x. Review
10.	Roemer FW , Guermazi A, Englund M, Turkiewicz A, Struglics A, Lohmander LS, Larsson S, Frobell R. Reply. <i>Arthritis Rheumatol</i> . 2019;71(9):1588. doi: 10.1002/art.40936.
11.	Trattnig S, Raudner M, Schreiner M, Roemer F , Bohndorf K. [Biochemical cartilage imaging-update 2019]. <i>Radiologe</i> . 2019;59(8):742-749. doi: 10.1007/s00117-019-0558-x.
12.	Guermazi A, Roemer FW . Which Is Better for Characterizing Disease Activity in Axial Spondyloarthritis: Diffusion MRI or T2-weighted/STIR MRI? <i>Radiology</i> . 2019;291(1):129-130 doi: 10.1148/radiol.2019190019.
13.	Li X, Roemer FW . Compositional changes predict morphologic cartilage lesion development - are we one step closer to clinical translation of quantitative MRI? <i>Osteoarthritis Cartilage</i> . 2019;27(5):723-725. doi: 10.1016/j.joca.2019.01.014.

14. Schmidkonz C, Ellmann S, Ritt P, Roemer FW , Guermazi A, Uder M, Kuwert T, Bäuerle T. Hybrid Imaging (PET-Computed Tomography/PET-MR Imaging) of Bone Metastases. <i>PET Clin.</i> 2019;14(1):121-133. doi: 10.1016/j.cpet.2018.08.003. Review
15. Hayashi D, Roemer FW , Guermazi A. Imaging of Osteoarthritis by Conventional Radiography, MR Imaging, PET-Computed Tomography, and PET-MR Imaging. <i>PET Clin.</i> 2019;14(1):17-29. doi: 10.1016/j.cpet.2018.08.004. Review.
16. Heiss R , Lutter C, Freiwald J, Hoppe MW, Grim C, Poettgen K, Forst R, Bloch W, Hüttel M, Hotfiel T. Advances in Delayed-Onset Muscle Soreness (DOMS) - Part II: Treatment and Prevention. <i>Sportverletz Sportschaden.</i> 2019 Mar;33(1):21-29. doi: 10.1055/a-0810-3516. Epub 2019 Mar 13.
2020
17. Kijowski R, Demehri S, Roemer F , Guermazi A. Osteoarthritis year in review 2019: imaging. <i>Osteoarthritis Cartilage.</i> 2020;28(3):285-295. doi: 10.1016/j.joca.2019.11.009. Review.
18. Guermazi A, Neogi T, Katz JN, Kwoh CK, Conaghan PG, Felson DT, Roemer FW . Intra-articular Corticosteroid Injections for the Treatment of Hip and Knee Osteoarthritis-related Pain: Considerations and Controversies with a Focus on Imaging- <i>Radiology</i> Scientific Expert Panel. <i>Radiology.</i> 2020;297(3):503-512. doi: 10.1148/radiol.2020200771. Review.
19. MacKay JW, Roemer FW , Kogan F. Standardized multi-vendor compositional MRI of knee cartilage: a key step towards clinical translation? <i>Osteoarthritis Cartilage.</i> 2020;28(12):1497-1500. doi: 10.1016/j.joca.2020.08.007.
20. Hayashi D, Roemer FW , Eckstein F, Samuels J, Guermazi A. Imaging of OA - From disease modification to clinical utility. <i>Best Pract Res Clin Rheumatol.</i> 2020;34(6):101588. doi: 10.1016/j.berh.2020.101588. Review.
21. Roemer FW , Demehri S, Omoumi P, Link TM, Kijowski R, Saarakkala S, Crema MD, Guermazi A. State of the Art: Imaging of Osteoarthritis – Revisited 2020. <i>Radiology.</i> 2020;296(1):5-21. doi: 10.1148/radiol.2020192498.