

CURRICULUM VITAE

NAME

Univ.- Prof. Dr. Siegfried Trattnig

ADRESSE

MR-Exzellenzzentrum; Univ.Klinik für Radiodiagnostik,
Medizinische Universität Wien; Allgemeines Krankeshaus AKH Wien
Waehringer Guertel 18-20; A-1090 Wien, Austria

PERSÖNLICHE DATEN

Geburtstag	30.July 1959
Geburtsort	Villach, Austria
Nationalität	Austria
Familienstatus	verheiratet, zwei Kinder (Stefan achtzehn Jahre und Julia sechzehn Jahre)

AUSBILDUNG

1993	Habilitation im Fach Radiodiagnostik
1985 -1992	Fachausbildung Radiodiagnostik
5.March 1985	Promotion
1979 -1985	Medizinstudium, Universität Wien (Abschluss mit Studienverkürzung nach 11 Semester bewilligt)
June 1978	Matura mit Auszeichnung
1970 -1978	Gymnasium BG und BRG Villach, Kärnten, Austria

KARRIERE

seit 2005 bis jetzt	Projektleiter für das 3T und 7T Projekt der Medizinischen Universität Wien
15.12. 2004	Vollmacht durch den Rektor gemäß §28 UG 2002 für das Management des Ultrahochfeld-MR-Projektes der Medizinischen Universität Wien
5.6.2003	Gründung des Exzellenzzentrums „Hochfeld MR“ der Univ.Klinik für Radiodiagnostik der Med. Universität Wien– Medizinischer Direktor
2000 bis 2003	Medizinischer Leiter des Hochfeld MR Forschungsscanner der Univ.Klinik für Radiodiagnostik, AKH, Universität Wien

1994 -1999	Stellvertretender Leiter des Instituts "besondere klinische Einrichtung §83 - U Magnetic-Resonanz" der medizinischen Fakultät der Universität Wien Austria
27.Mai 1993	Habilitation im Fachgebiet Radiodiagnostik
1992 -1993	Stellvertretender Abteilungsleiter der klinischen Abteilung für Neuroradiologie der Univ.Klinik für Radiodiagnostik, AKH, Universität Wien
1992	Ernennung zum Facharzt für Radiologie
1979 -1985	Medizinstudium, Universität Wien, Austria

KARRIERE ASSOZIIERTE AKTIVITÄTEN	
2009	Speaker der MUW für den Antrag Doktoratskolleg plus Programm des FWF: "Biomedical Engineering" Interuniversitär Kooperation MUW-TUW
2009	Member of the EMEA Advisory Board
2009	ICRS Speaker für den internationalen State of the art article: "Imaging of Cartilage Repair"
2009	Speaker der European Society of Radiology – Europäische Initiative: Medical Devices Exploratory Process
2009	Mitglied der 7 Tesla Kerngruppe der European Stratey Forum on Research Infrastructures (ESFRI)
2009	Editorial Board Member: für folgende Journale Insights into Imaging World Journal of Radiology
2008	Co-Editor für Investigative Radiology: Special issue on high field MR entitled "High field MR – the new clinical standard"
2008	Editorial Board Member of the ESMRMB Strategy Review and Performance Assessment Committee (SRPAC)
2008	Scientific expert for the European Medicines Agency (EMA)
2008	Editorial Board Member of Recent Patents in Biomedical Imaging
2008	Member of the Scientific Programm Committee of the International Cartilage Repair Society (ICRS) für den Kongress 2009

2008	Member of the International MSK Scientific Advisory Board of Siemens AG Health Care Sector
2008	Guest editor für Seminars in Musculoskeletal Radiology Special issue on MSK imaging at 3T and beyond
2008	Wissenschaftlicher Beirat der Österreichischen Gesellschaft für funktionelle MagnetResonanzTomographie
2008	Präsidiumsmitglied des Vereins für medizinischen Strahlenschutz Österreichs (VMSSÖ) Leitung des Arbeitskreises Nichtionisierende Strahlen
2008	Mitglied der Normierungskommission in Fragen der MR Sicherheit
2008	Nominierter NIH Grant (NIH NIAMS Grant reviews (BIRT awards) reviewer
2008	Nomination as a referee for a professorship application of the MAYO Clinic, USA
2007	Linien Koordinator (Imaging) des neu gegründeten Clusters für Tissue Engineering des Ludwig Boltzmann Instituts für Experimentelle und klinische Traumatologie mit der Medizinischen Universität Wien
2006	Mitglied des international Guerbet Advisory Board for Contrast Agent Resarch
2004	Mitglied des Scientific Editorial Board des Top Journals: "European Radiology"
2003	Österreichischer Delegierter und Projekt Leiter des EU-COST- B21 Programms
2003	Mandatar der Wiener Ärztekammer
2002	Experten-Evaluator der Europäischen Kommission
AUSZEICHNUNGEN	
2008	Mentor des Jahres 2007, Univ.Klinik für Radiodiagnostik, AKH, MUW
2008	Beste Präsentation im Muskulo-Skeletalen Bereich, ECR 2008
2006	"Researcher of the month" Februar 2006 Medizinische Universität Wien
2005	Mentor des Jahres 2005 Univ.Klinik für Radiodiagnostik, AKH MUW
2005	ESBS Award 7th Congress of the European Skull Base Society

1997	Giovanni Di Chiro Award for Outstanding Scientific Research Journal of Computer Assisted Tomography
1997	Österreichische Röntgengesellschaft Schering-Preis 1996 m (2 fach)
1996	Dr.-Kolassa-Stiftung zur Rheumaforschung der Österreichischen Gesellschaft für Rheumatologie
1996	Österreichische Röntgengesellschaft Schering-Preis 1995

MITGLIEDSCHAFTEN

VMSÖ Verband für Medizinischen Strahlenschutz Österreich

Bereich: Nichtionisierende Strahlen

Europäische Radiologische Gesellschaft (ESR)

International Skeletal Society (ISS)

Österreichische Radiologische Gesellschaft (ÖRG)

European Society for Magnetic Resonance in Medicine and Biology (ESMRMB)

European Society of Skeletal Radiology (ESSR)

INGEWORBENE DRITTMITTEL UND FONDGELDER IN DEN LETZTEN 08 JAHREN (2000-2009)

Zeitraum	Organisation	Kurztitel	€
03/2004 - 2007	Uni-Infra - strukturprogramm II/III des BM BWK	Project application for a 7 Tesla whole body -MRT	4 Mio
12/08-11/13	Vienna Spots of Excellence des Wiener Wissenschafts-und Technologie-Fonds (WWTF) FA102A0017	Vienna Advanced Imaging Center (VIACLIC)	2 Mio
2008	Fa Siemens FA771A0101	7T- Hochfeld MR	810.000
10/05-09/10	FWF-Projekt P18110B15	Visualization of Biomechanical properties of articular cartilage by	408.200

		MR	
10/06-09/09	BRIDGE-Programm des FFG FA771A0102	Sequence technique and development and Optimization at high field MR (3+7 Telsa)	342.700
06/08-05/11	FWF-TRP-Projekt: APL00494FW	Biochemical Imaging of intervertebral disc at 3T	294.800
11/05-01/11	FWF-TRP-Projekt L243-B15	Monitoring of autologous cartilage implantation by 3T MR	286.800
1/2008	Jubiläumsfondprojekt	Morphological and biochemical hip imaging	108.000
02/14/2005	Bracco	Contrast-Enhanced SWI of brain tumors	65.000
08/03 - 02/05	Jubiläumsfondprojekt Nr.10158	Examination of T1rho relaxation times as a possible marker for proteoglycan loss in articular cartilage	45.000
02/06-0208	Jubiläumsfondprojekt AP11744ONB	Improved pre-operative planning for autologous chondrocyte implantation surgery through automated 3D image analysis and reconstruction of MR images	43.000
07/06-02/10	Jubiläumsfondprojekt AP11954ONB	Improved preoperative evaluation of cerebral cavernous hemangiomas by high resolution and contrast-enhanced SWI- high field MRT (3T). Comparison with standard MRI and histopathology	41.000

09/01 - 04/03	Jubiläumsfondprojekt Nr. 9285	Noninvasive high resolution MRI of ankle joint at high field strength	42.000
07/01 - 06/03	Bürgermeisterfond- Projekt: Nr. 1971	High resolution of MR- Venography of the human brain at 3 Tesla	35.000
05/05 - 05/11	Bürgermeisterfond- Projekt: AP02332BGM	Sodium Imaging of cartilage	25.000
07/00 – 09/02	Jubiläumsfondprojekt Nr. 8422	Correlation of Proteoglycan depletion in articular cartilage with Gadolinium-DTPA enhanced MRI	23.000
5/2008	Bürgermeisterfond der Stadt Wien Nr. 08011	Evaluierung von T2 mapping zur Erfassung der Kollagenstruktur von Knorpelreparaturgewebe nach autologer Knorpelzelltransplantation und Mikrofrakturierung im oberen Sprunggelenk	23.000
5/02-05/04	Bürgermeisterfond- Projekt Nr. 2098	Diagnose früher arthritischer Veränderungen an kleinen Handgelenken auf 3 Tesla. Vergleich der Sensitivität und Auflösung zu Standard-MRT 15 Patienten – Finge	20.000
02/09-01/12	Bracco Group FA771A0103	Vergleich der KM- Aufnahme von Hirntumoren be 3T vs.7T	15.000
04/04	GE Healthcare	Contrast-enhanced high-resolution MRI of Cartilage Repair	7.000

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WISSENSCHAFTLICHE PUBLIKATIONEN

Total	267 davon peer-reviewed	243
Erstautorschaften		64
Top Journale		99
Buchbeiträge		37

ERSTAUTORSCHAFTEN

1. T1(Gd) gives comparable information as Delta T1 relaxation rate in dGEMRIC evaluation of cartilage repair tissue.
Trattnig S, Burstein D, Szomolanyi P, Pinker K, Welsch GH, Mamisch TC.
Invest Radiol. 2009 Sep;44(9):598-602.
2. MR imaging of cartilage and its repair in the knee - a review.
Trattnig S, Domayer S, Welsch GW, Mosher T, Eckstein F.
Eur Radiol. 2009 Jul;19(7):1582-94. Epub 2009 Mar 13. Review.
3. High field MR imaging of the musculoskeletal system.
Trattnig S, Mosher TJ.
Semin Musculoskelet Radiol. 2008 Sep;12(3):183. Epub 2008 Oct 10. No
4. Differentiating normal hyaline cartilage from post-surgical repair tissue using fast gradient echo imaging in delayed gadolinium-enhanced MRI (dGEMRIC) at 3 Tesla.
Trattnig S, Mamisch TC, Pinker K, Domayer S, Szomolanyi P, Marlovits S, Kutscha-Lissberg F, Welsch GH.

5. Three-dimensional delayed Gadolinium enhanced MRI of cartilage (dGEMRIC) for in vivo evaluation of reparative cartilage after matrix-associated autologous chondrocyte transplantation at 3.0 Tesla – preliminary results.
S.Trattnig, S Marlovits, S Gebetsroither, P Szomolanyi, GH Welsch, E Salomonowitz, A Watanabe, M Deimling, TC Mamisch.
J Magn Reson Imaging 2007 Oct;26(4):974-82..
6. Quantitative T2 mapping of matrix-associated autologous chondrocyte transplantation at 3 Tesla: an in vivo cross-sectional study.
S.Trattnig, TC Mamisch, GH Welsch, C Glaser, P Szomolanyi, S Gebetsroither, O Stastny, W Horger, S Millington, S Marlovits
Invest Radiol. 2007; 42(6):442-8.
7. MR imaging of osteochondral grafts and autologous chondrocyte implantation.
S.Trattnig , SA Millington, P Szomolanyi, S. Marlovits
Eur Radiol. 2007 Jan;17(1):103-18. Epub 2006 Jun 27.
8. High-field and ultrahigh-field magnetic resonance imaging: new possibilities for Imaging of Joints.
S. Trattnig, T.C. Mamisch, I.Noebauer.
Z Rheumatol. 2006 Dec;65(8):681-7. German
9. Matrix-based autologous chondrocyte implantation for cartilage repair with Hyalograft C : Two-year follow-up by magnetic resonance imaging.,
S.Trattnig , K. Pinker, Krestan C, Plank C, Millington S,
Marlovits S
Eur J Radiol 57 (1), 2006, 9-15
10. The optimal use of contrast agents at high field MRI.
S Trattnig, K Pinker, A Ba-Ssalamah, IM Nobauer-Huhmann.
Eur Radiol. 16 (6), 2006, 1280-7
11. Radiological Evaluation of Cartilage Disorders
Trattnig S
Osteosynthesis and Trauma Care 2005

12. Bildgebende Diagnostik von Knorpelersatztherapien.
S.Trattnig, Ch.Plank, K.Pinker, G.Striessnig, V.Mlynarik,
IM.Nöbauer, S.Marlovits
Der Radiologe 44 (2004) 748-55

13. Kontrastmittelanwendung auf Hochfeld (3T-)MRT
S.Trattnig, A.Ba-Ssalamah, IM.Nöbauer-Huhmann, M.Barth,
K.Pinker, V.Mlynarik
Der Radiologe 44 (2004) 56-64

14. Use of contrast agent at 3 Tesla-MR.
S.Trattnig
Highlights in MRI 2004 (2) 8

15. MR contrast agent at high-field MRI (3 Tesla)
S.Trattnig, A.Ba-Ssalamah, IM.Nöbauer-Huhmann, M.Barth, S.Wolfsberger,
K.Pinker, E.Knosp
Top Magn Reson Imaging, 2003 Oct;14-5. 365-375

16. Bildgebende Diagnostik bei Hypophysentumoren
S.Trattnig, A.Ba-Ssalamah, K.Pinker, IM.Nöbauer-Huhmann,
S.Wolfsberger, E.Knosp
Wr. Klinische Wochenschrift Suppl 115 (2003) 23-27 Supplementum

17. Kontrast noch stärker, Auflösung noch höher, MR-Angiographie auf Hochfeld (3-Tesla)-MRT - ein Ausblick
S. Trattnig Network Radiologie, Fokus März 2003

18. 3 Tesla magnetic resonance tomography-clinical applications
S.Trattnig
Wr. Klinische Wochenschrift Suppl 113 (2002) 22-27

19. Bilaminar pattern of tibial condyle cartilage layer on the fat-suppressed 3D gradient echo images: artifact or structural and biochemical difference in composition of cartilage?
S.Trattnig, V.Mlynarik, B.Jung, T.Bader, I.Sulzbacher, A.Herneth,
R.Gaisch, S.Puig
Magn Reson Imaging 19 (2001) 187-192

20. Magnetic Resonance Imaging of articular cartilage and evaluation of cartilage diseases
S. Trattnig, V. Mlynarik, M. Huber, A.Ba-Ssalamah, S. Puig, H. Imhof
Invest Radiol 35 (2000) 595-601

21. MRI Visualization of Proteoglycan depletion in articular cartilage via intravenous administration of Gd-DTPA
S.Trattnig, V.Mlynarik, M.Breitenseher, M.Huber, A.Zembsch, Th.Rand, H.Imhof
Magn Reson Imaging 17 (1999) 577-583

22. Magnetic Resonance Imaging of the Postoperative Knee
S. Trattnig, T. Rand, C. Czerny, R. Stocker, M. Breitenseher, F. Kainberger, H. Imhof
Top Magn Reson Imaging 10 (1999) 221-236

23. MR Imaging-guided MR Arthrography of the shoulder: Clinical experience on a conventional closed high-field system
S.Trattnig, T Rand, M.Breitenseher, A.BaSsalamah. S.Schick, H.Imhof
AJR 172 (1999) 1572-1574

24. MR-Arthrographie des oberen Sprunggelenkes
S.Trattnig, Th.Rand, M.Breitenseher, A.Ba-Ssalamah, S.Schick, H.Imhof
Der Radiologe 39 (1999) 47-51

25. Radiologische Abklärung des traumatisierten Kniegelenks
S. Trattnig, Jatro - Orthopädie
Unfallchirurgie und Rheumatologie 1 (1999) 18-19

26. Der diabetische Fuß im Röntgen und MRT
S.Trattnig
Jatro Orthopädie (1999)

27. MRT in der Verlaufskontrolle von Patienten mit multipler Sklerose
S. Trattnig
Jatro - Neurologie Psychiatrie 8 (1998) 8 – 36-42

28. Powertrak 3000 am GYROSCAN T10-NT: Erste klinische Erfahrungen
S.Trattnig, S.Schick, J.van der Kooi, M.Breitenseher, H.Imhof

29. Bildgebende Diagnostik mittels Magnetresonanztomographie
S. Trattnig
Jatros - Neurologie Psychiatrie 7 (1998)18-23

30. Imaging Articular Cartilage Defects with Fat-Suppressed 3D Echo Planar Imaging (EPI): Comparison with Conventional Fat-Suppressed 3D GE Sequence and Correlation with Histology
S. Trattnig, M. Huber, M. Breitenseher, H. Trnka, Th. Rand, A. Kaider, Th. Helbich, H. Imhof, D. Resnick
Journal of Computer Assisted Tomography 22 (1998) 8-14

31. MRT-guided joint puncture and real-time MR assistend contrast media application
S.Trattnig, M.Breitenseher , M Pretterklieber, G.Kontaxis, Th.Rand, K.Turetschek, M.Barth, H.Imhof,
Acta Radiol 38 (1997) 1047-1049

32. GRASE: Ultrafast Turbo Gradient-Spin-Echo-Sequence: A new approach to fast MRI of the Musculo-Skeletal System
S. Trattnig, M. Breitenseher, G. Kontaxis, Th. Helbich, Th. Rand, H. Imhof
Acta Radiol 38 (1997) 880-884

33. MRT auf Niederfeldtomographen (0,2 Tesla): Ein quantitativer Vergleich mit einem Gerät mittlerer Feldstärke (1,0 Tesla)
S. Trattnig, G. Kontaxis, M. Breitenseher, Ch. Czerny, Th. Rand, K. Turetschek, m. Barth, H. Imhof
Der Radiologe, 10 (1997) 773-777

34. Bestimmung der Knorpeldicke am oberen Sprunggelenk.
Eine MRT(1,5T)-anatomische Vergleichsstudie
S. Trattnig, M. Breitenseher, M. Huber, R. Zetl, B. Rottmann, J. Haller, H. Imhof
Roentgenfortschritte 166 (1997) 303-306

35. Overuse of hyaline cartilage and imaging
S. Trattnig

Eur J Radiol 25 (1997) 188-198

36. EPI and GRASE – Clinical perspectives
S. Trattnig
Field strength 4 (1997) 2-14

37. MR-gezielte MR-Arthrographie der Schulter
S. Trattnig, M. Breitenseher, M. Pretterklieber, G. Kontaxis, T. Rand,
H. Imhof
Der Radiologe 36/9 (1996) 709-712

38. Tarsaltunnel-Syndrom - MR-Diagnostik
S. Trattnig, M. Breitenseher, J. Haller, Th. Helbich, Ch. Gäbler,
H. Imhof
Der Radiologe 35 (1995) 468-472

39. Sinus Tarsi-Syndrom - MR-Diagnostik
S. Trattnig, M. Breitenseher, J. Haller, G. Heinz-Peer, Ch. Kukla,
H. Imhof
Der Radiologe 35 (1995) 463-467

40. Colour-coded Doppler sonography of common carotid artery dissection
S. Trattnig, T. Rand, M. Thurnher, M. Breitenseher, K. Daha
Neuroradiology 37 (1995) 124-126

41. Magnetic resonance angiography and selective angiography following
extra-intracranial bypass operation
S. Trattnig, C. Matula, G. Gomiscek, J. Kramer, H. Görzer,
E. Schindler, H. Imhof
Neuroradiology 36 (1994) 198-202

42. Bildgebende Diagnostik nach spinaler Diskushernienoperation
S. Trattnig, J. Kramer, M. Mühlbauer, F. Kainberger, H. Imhof
Der Radiologe 33 (1993) 573-580

43. Difficulties in examination of the origin of the vertebral artery by duplex
and colour-coded Doppler sonography: anatomical considerations
S. Trattnig, C. Matula, F. Karnel, D. Daha, M. Tschabitscher,
B. Schwaighofer

- Neuroradiology 35 (1993) 296-299
44. Colour Doppler imaging of partial subclavian steal syndrome
S. Trattnig, F. Karnel, A. Kautzky, F. Kainberger, C. Matula
Neuroradiology 35 (1993) 293-295
 45. Dynamische 3D-Darstellung der peripheren Gefäße mittels farbkodierter Dopplersonographie
S. Trattnig, R. Braunschweig, Th. Fleiter
Ultraschall in der Medizin 2 (1993) 85-89
 46. Akute Nierenvenenthrombose bei Kindern: Früher Nachweis mit Duplex- und farbkodierter Dopplersonographie
S. Trattnig, K. Frenzel, M. Eilenberger, A. Khoss, B. Schwaighofer
Ultraschall in der Medizin 14 (1993) 40-43
 47. Nichtinvasive Verlaufskontrolle mittels farbkodierter Dopplersonographie nach operativen Eingriffen an den extrakraniellen hirnversorgenden Arterien
S. Trattnig, D. Pölzleitner, P. Hübsch, K. Daha, Ch. Matula, H. Magometschnigg
Röntgenfortschritte 156 (1992) 224-227
 48. Stenosen von V. saphena Bypässen der unteren Extremität: Frühdiagnose mittels farbkodierter Dopplersonographie
S. Trattnig, A. Maier, Th. Sauter, F. Karnel, B. Schwaighofer
Ultraschall in der Medizin 13 (1992) 67-70
 49. Vaskuläre Raumforderungen der Arteria carotis - Nachweis in der farbcodierten Dopplersonographie der Carotiden: Vergleich mit Duplexsonographie und Angiographie
S. Trattnig, P. Hübsch, B. Schwaighofer, F. Karnel, M. Eilenberger
Ultraschall in der Medizin 12 (1991) 70-73
 50. Failed back surgery syndrome: Justification for reoperation based on clinical and CT/MRI-findings
S. Trattnig, R. Stiglbauer, Th. Czech, E. Schindler, H. Imhof
Neuroradiology 33 (1991) 342-344

51. Color-coded Doppler sonography of Vertebral Arteries
S. Trattnig, B. Schwaighofer, P. Hübsch, M. Schwarz, F. Kainberger
 J Ultrasound Med 10 (1991) 221-226

52. Varikosis orbitalis - Nachweis mittels farbkodierter Dopplersonographie und Computertomographie
S. Trattnig, M. Eilenberger, H. Schurawitzki, P. Hübsch,
 B. Schwaighofer
 Röntgenfortschritte 155 (1991) 207-210

53. Durchgängigkeit der Carotis externa und interna bei Patienten mit Karotis communis Okklusion: Nachweis in der farbkodierten Dopplersonographie
S. Trattnig, P. Hübsch, P. Barton, F. Karnel, Th. Sautner,
 B. Schwaighofer, G. Kretschmer
 Röntgenfortschritte 154 (1991) 44-48

54. Color Doppler Imaging of Normal Vertebral Arteries
S. Trattnig, P. Hübsch, H. Schuster, D. Pölzleitner
 Stroke 21 (1990) 1222-1225

55. Farbkodierte Dopplersonographie der Vertebralarterien
S. Trattnig , B. Schwaighofer
 Radiologe 30 (1990) 520-524

56. Flussumkehr in der Karotisbifurkation: Nachweis in der farbkodierten Dopplersonographie der Karotiden
S. Trattnig, B. Schwaighofer
 Radiologe 30 (1990) 516-519

57. Velocity-Variance-Funktion: Zusatzinformation in der farbkodierten Dopplersonographie der Karotiden
S. Trattnig, B. Schwaighofer, P. Hübsch, F. Kainberger, D. Pölzleitner
 Röntgenfortschritte 153 (1990) 516-519

58. Renal Osteodystrophy. Radiological Diagnosis compared with a new radioimmunoassay method pf parathyroid hormone.
S. Trattnig, P. Hübsch, O. Traindl, F. Kainberger,
 B. Schwaighofer ,W. Wolszczuk

59. Magnetresonanztomographie beim 'failed back surgery syndrome':
Vergleich zur Computertomographie
S. Trattnig, R. Stiglbauer, K. Ungersböck, Th. Czech, E. Schindler
H. Imhof
Röntgenfortschritte 152 (1990) 369-373
60. Extra-CNS Metastases of Glioblastoma: CT and MR studies
S. Trattnig, E. Schindler, K. Ungersböck, M. Schmidbauer,
K. Heimberger, P. Hübsch, R. Stiglbauer
Journal of Computer Assisted Tomography 14 (1990) 294-296
61. Inzidenz und klinische Bedeutung chronisch-reaktiver periostaler
Knochenneubildungen im Cervikalbereich bei Patienten mit
unterschiedlicher neurologischer Symptomatik
S. Trattnig, T. Reisner, H. Binder, F. Frühwald,
B. Schwaighofer, P. Hübsch
Röntgen-Blätter 42 (1989) 69-72
62. Spontane Karotidisdissektion als Ursache eines Hirninfarktes eines
Jugendlichen
S. Trattnig, E. Schindler, P. Hübsch
Radiologe 28 (1988) 511-513
63. Ballonkathetertechnik und Embolisation - Neue therapeutische
Wege bei zerebralen und Gefäßmalformationen
S. Trattnig, P. Samec, K. Zeiler
Wiener Klinische Wochenschrift 16 (1985) 653-658

KORRESPONDIERENDE AUTORSCHAFTEN

64. Multimodal approach in the use of clinical scoring, morphological MRI and
biochemical T2-mapping and diffusion-weighted imaging in their ability to assess
differences between cartilage repair tissue after microfracture therapy and matrix-
associated autologous chondrocyte transplantation: a pilot study.

Welsch GH, **Trattnig S**, Domayer S, Marlovits S, White LM, Mamisch TC.
Osteoarthritis Cartilage. 2009 Apr 17. [Epub ahead of print]

65. Initial results of in vivo high-resolution morphological and biochemical cartilage imaging of patients after matrix-associated autologous chondrocyte transplantation (MACT) of the ankle.

Quirbach S, **Trattnig S**, Marlovits S, Zimmermann V, Domayer S, Dorotka R, Mamisch TC, Bohndorf K, Welsch GH.

Skeletal Radiol. 2009 Mar 19. [Epub ahead of print]

66. Magnetization Transfer Contrast and T2 mapping in the evaluation of cartilage repair tissue at 3 T MRI

G.H.Welsch, **S.Trattnig**, K.Scheffler, P.Szomolanyi, S.Quirbach, St.Marlovits, St.Domayer, O.Bieri, T.C.Mamisch

Corresponding author: **S.Trattnig**

J Magn Reson Imaging. 2008 Oct;28(4):979-86.

ZWEIT- AUTORSCHAFTEN

67. T2 and T2* mapping in patients after matrix-associated autologous chondrocyte transplantation: initial results on clinical use with 3.0-Tesla MRI.

Welsch GH, **Trattnig S**, Hughes T, Quirbach S, Olk A, Blanke M, Marlovits S, Mamisch TC.

Eur Radiol. 2009 Nov 25. [Epub ahead of print]

68. Tibial cartilage hypertrophy due to matrix-associated autologous chondrocyte transplantation of the medial femoral condyle. A case report

Welsch GH, **Trattnig S**, Tichy B, Mamisch TC, Wondrasch B, Marlovits S

J Bone Joint Surg Am. 2009 Aug;91(8):1996-2001

69. Initial results of in vivo high-resolution morphological and biochemical cartilage imaging of patients after matrix-associated autologous chondrocyte transplantation (MACT) of the ankle.

Quirbach S, **Trattnig S**, Marlovits S, Zimmermann V, Domayer S, Dorotka R, Mamisch TC, Bohndorf K, Welsch GH.

Skeletal Radiol. 2009 Aug;38(8):751-60. Epub 2009 Mar 19.

70. High-field magnetic resonance imaging of meniscoids in the zygapophyseal joints of the human cervical spine.
KM Friedrich, **S Trattig**, SA Millington, M, Friedrich, K Groschmidt
ML Pretterklieber.
Spine. 2007 Jan 15;32(2):244-8.
71. Impairment of chondrocyte biosynthetic activity by exposure to 3-tesla high-field magnetic resonance imaging is temporary.
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Seminars in Musculo-skeletal Radiology 2007

S. Trattnig

- Special issue „Cartilage repair“
Eur J Radiol 2006

S Marlovits, **S Trattnig**

- Special issue Cartilage Transplantation
Eur J Radiol 2005
Guest editors: **S.Trattnig**, S.Marlovits
- Themenheft "Knorpelersatztherapien"
Der Radiologe 2004
S.Trattnig, S.Marlovits, H.Imhof
- Special issue 3 Tesla MR - from research to clinical routine
Invest Radiol. 2003, Vo.38
Editorial: E.Moser , **S.Trattnig**
Guest editors: S.Trattnig, E.Moser, H.Imhof
- Special issue MR of Cartilage
Invest Radiol. 2000, Vo.35
Guest editors: H. Imhof , **S. Trattnig**

REVIEW AKTIVITÄTEN:

Buchbesprechungen für die Journale

„European Journal of Radiology“
„Der Radiologe“

Review für die wissenschaftlichen Journale

“European Journal of Radiology”,
“European Radiology“
“Investigative Radiology“
“Magnetic Resonance in Medicine”
“Röntgen Fortschritte”
Journal of Magnetic Resonance Imaging”
“Neuroradiology”
“Osteoarthritis and Cartilage”
“Der Radiologe“

“Annals of the Rheumatic Diseases”

“Arthritis Research and Therapy”

“Journal of Orthopedics and related research”

“American Journal of Radiology”

“Journal of Morphology”

1. Contrast agent beyond 1,5 Tesla
S.Trattnig ,
Blackwell Publishing "Magnevist" 1/2007 289-296

2. Binnenläsionen des Kniegelenks
S. Trattnig
K.Bohndorf, H.Imhof (ed.) Radiologische
Diagnostik der Knochen und
Gelenke:Vom Einstieg bis zum Facharzt,
2005, Thieme-Verlag

3. The Ankle and Foot.
H. Imhof, M. Breitenseher, **S. Trattnig**,
F. Kainberger, J. Haller. IN: A.M. Davis, H. Petterson (Eds.): Clinical
MR-Imaging – A practical Approach.
2004 Springer-Verlag,
Berlin-Heidelberg-Wien-New York

4. Gelenkerkrankungen
H. Imhof, M. Breitenseher, J. Haller, F. Kainberger,
V. Metz, G. Seidl, **S. Trattnig**
IN: A. Heuck, M. Reiser (ed.): Computertomographie
2005 Springer-Verlag, Wien - New York,

5. Binnenläsionen des Kniegelenks
S.Trattnig IN: K.Bohndorf, H.Imhof
(ed.) Radiologische Diagnostik der Knochen und Gelenke
Vom Einstieg bis zum Facharzt.
2005, Thieme-Verlag

6. Clinical MR Imaging/a practical approach: Joints
H Imhof, F Kainberger, M Breitenseher, S Grampp,
T Rand, **S Trattig**.
Preimer P., Parzel PM, Stichnoth FA (eds)
2 edition 2003 Springer Verlag

7. Imaging of bone and soft tissue tumors
Herausgeber und Autoren:
T Rand, P Ritschl, **S Trattig**, M Breitenseher, H Imhof,
Resnick DSpringer-Verlag Preimer P., Parizel PM, Stichnoth FA (eds)2nd
edition 2003, Springer Verlag

8. Arthrography of the Foot and Ankle: Ankle and Subtalar Joint
HJ Trnka, G. Ivanic, **S. Trattig**
IN: Foot and Ankle Clinics – Imaging of the Foot and Ankle
(2000) 49-63, W.B. Saunders-Verlag

9. Joints
H. Imhof, Breitenseher, S. Grampp, F. Kainberger, T. Rand,
S. Youssefzadeh-Dorffner, **S. Trattig**
IN: P. Reimer, P.M. Parizel, F.A. Stichnoth (Eds.):
Clinical MR-ImaA practical Approach.
Springer-Verlag, Berlin-Heidelberg-Wien-New ork 1999, S187 – 212

10. Tendinous Disease in the Upper and Lower Limb
. Imhof, M. Breitenseher, J. Haller, F. Kainberger, **S. Trattig**
N: Carlo Masciocchi: Radiological Imaging of Sports Injuries
Springer-Verlag, Berlin - New York, 1998

11. Musculoskeletal: Technique of study and anatomy
H. Imhof, M. Breitenseher, F. Kainberger, M.
Pretterklieber, **S. Trattig**
IN: Magnetic Resonance in Medicine.
Multimedia Virtual Textbook 1995-1997

12. Color coded Doppler sonography of the carotid arteries
S. Trattig, P. Hübsch in: F. Frühwald, D.E. Blackwell
(ed.): Atlas of color coded Dopplersonography - Vascular and soft tissue structures of
tupperextremity, thoracic outlet and neck.

Springer Verlag, Wien - New York, 1992

13. Color coded Doppler sonography of the vertebral arteries

S. Trattnig, P. Hübsch

in: F. Frühwald, D.E. Blackwell (ed.): Atlas of color coded Doppler sonography - Vascular and soft tissue structures of the upper extremity, thoracic outlet and neck. Springer Verlag, Wien - New York, 1992

14. Color coded Doppler sonography of the arteries of the upper limbs

P. Hübsch, **S. Trattnig** in: F. Frühwald, D.E. Blackwell

(ed.): Atlas of color coded Doppler sonography - Vascular and soft tissue structures of the upper extremity, thoracic outlet and neck. Springer Verlag, Wien - New York, 1992

15. Color coded Doppler sonography of the thyroid and parathyroid glands

P. Hübsch, F. Frühwald, **S. Trattnig** in: F. Frühwald, D.E. Blackwell

(ed.): Atlas of color coded Doppler sonography - Vascular and soft tissue structures of the upper extremity, thoracic outlet and neck. Springer Verlag, Wien - New York, 1992

16. Color coded Doppler Sonography of dialysis fistulas

P. Hübsch, **S. Trattnig**

in: F. Frühwald, D.E. Blackwell (ed.): Atlas of color coded Doppler sonography - Vascular and soft tissue structures of the upper extremity, thoracic outlet and neck.

Springer Verlag, Wien - New York, 1992

17. Color coded Doppler sonography of the veins of the neck and upper Extremities

P. Hübsch, **S. Trattnig**

in: F. Frühwald, D.E. Blackwell (ed.): Atlas of color coded Doppler sonography - Vascular and soft tissue structures of the upper extremity, thoracic outlet and neck. Springer Verlag, Wien - New York, 1992

18. Erfahrungen mit der Bestimmung des intakt-PTH zur Erfassung des sekundären Hyperparathyreoidismus

O. Traindl, M. Franz, **S. Trattnig**, J. Kovarik, W. Woloscuk, H. Graf
in: W. Schulz, A. Hümpfner (ed.): Knochen, kalziumregulierende Hormone und Niere
Dustri-Verlag Dr. Karl Feistle, München-Deisenhofen, 1991

1. Nicht neurologische klinische Untersuchungen am 7 Tesla Ultrahochfeld -
Forschungstomographiemagnetresonance. Carina Scharler
MR-Centre of Excellence, Department of Radiology Medical University of Vienna, AKH
Austria May 2009

2. Optimierung morphologischer hochauflösender MR- Bildgebung:
1.5 Telsa versus 3.0 Telsa; Christoph Müller
MR-Centre of Excellence, Department of Radiology Medical
University of Vienna, AKH Austria, 2008

3. Biochemische Bildgebung des Knorpels
Louisa Brandi
MR-Centre of Excellence, Department of Radiology Medical
University of Vienna, AKH Austria, 2007

4. MR Sicherheit unter besonderer Berücksichtigung von Hochfeld-MR
Martin Mühlenweg Vienna
MR-Centre of Excellence, Department of Radiology Medical
University of Vienna, AKH Austria, 2007

5. 7 Tesla MRT: die zukünftige Rolle des Radiologie-Technologie Assistenten
Matthias Feuchtenhofer
Akademie für Radiologietechnologie
Wiener Neustadt 2006

6. Cerebral Cavernous Malformations-Importance of MRI
Anna Prajsnar
MR-Centre of Excellence, Department of Radiology
Medical University of Vienna, AKH Austria, 2006

7. Auswirkungen eines 3 Tesla Magnetfeldes auf die biosynthetische Aktivität von
artikulären Chondrozyten. Sunk IG
Klinische Abteilung für Rheumatologie,
Univ.Klinik für Innere Medizin III, 2005

8. Magnetresonanztomographische Erfassung maligner Extremitätsweichteiltumore
Katja Pinker Vienna
MR-Centre of Excellence, Department of Radiology
Medical University of Vienna, AKH Austria, 2004

Betreuung von PhD-Studenten

- Mag.Marek Chmelik
3D Magnetic Resonance Spectroscopic Imaging for Absolute Quantification of in vivo ³¹P Metabolites in Human Liver May 2009
- Dr.Stephan Domayer im Rahmen des PhD Studiums N094: T1rho mapping of matrix associated autologous chondrocyte transplantation in vivo with high field MRI and correlation with clinical results
- Dr.Marius Mayerhöfer im Rahmen des PhD Studiums N094: Experimental basis and clinical application of texture analysis and pattern recognition on high-resolution MR images

Lehraufträge

- Fachhochschule-Bachelorstudiengang »Radiologietechnologie«, Akademie für „Radiologietechnologie“;
- Fachhochschule Campus Wien Radiologietechnologie, Master-Lehrgang, AKH Akademie für Radiotechnologischen Dienst
- Donauuniversität Krems
Master-Lehrgang »Radiologietechnologie«

2009

- Advantages of high-field (3 Tesla and 7 Tesla) MR Imaging in the musculo-skeletal system.
- Biochemical (multiparametric) and biomechanical MR Imaging of articular cartilage
- Biomedical and biomechanical MR imaging of the intervertebral disc.
- State of the art MR imaging of the impingement of the hip.

10TH EFFORT Congress , Vienna, Austria 3.-6. June

- From Morphological to Biochemical MRI of Cartilage Repair
ICRS 8th World Congress of the International Cartilage Repair Society
23 - 26.May 2009, Miami Florida, USA

- High field MR imaging of the lower extremity
ISMRM 17th Scientific Meeting & Exhibition,
18-24.4.2009 Honolulu

- MRI of sellar lesion
- High-field MR (3.0 Tesla) in MSK: pros and cons
- Imaging of the degenerative spine
- Susceptibility-weighted imaging of the brain
5th Congress of the Radiological Society of
Saudi Arabia, 30.3-3.4.2009

2008

- Advanced Musculo-skeletal MR
ESMRMB/OCSMRM School of MRI
Shenzen, China, 13.-15.12.2008
- Biochemische und biomechanische MR Bildgebung des Knorpels
3.Wiener Biomaterial-Symposium
Wien, 19.-21.11.2008
- MR-Workshop, MR Basics

Wien, 11.-12.10.2008

- Imaging the cartilage matrix
Plenary lecture ESMRMB

Valencia, 02.-04.10.2008

- Radiology Endoscopic Pituitary Surgery – Workshop

Wien, 26.-27.09.2008

- “Vienna experience and whole-body applications of ultra-high-field MRI”
Initiation Symposium “Ultra-high-field MRI in Munich”

München, Deutschland, 25.07.2008

- From morphologic to biochemical Imaging
cartilage MRI at 3 and 7 Tesla

ACSI 2008 / 20-21.6.08 Mannheim

- Imaging at 3T

15th Annual Meeting

12-14.6.2008 Galway

- Bone and Cartilage Imaging at 3.0 Tesla

St.Gallen / 29-31.5.08

- Imaging Techniques of Cartilage Repair

6th MAGNETOM World Summit

München, 29.5.-1.6.08

- Current Concepts in Muskuloskeletal MRI

ISMRM 16th Scientific Meeting & Exhibition

Toronto / 3.-9.05.2008

- MRT in cartilage tissue engineering

PhD Programm 902005 “Bone and Joint Regeneration”

Wien, 21.04.2008

- Kniegelenk im MRT – eine einfache Diagnose?

“Hit Parade” der Fussballverletzungen

Kotscherkurs Radiologie, Sommersemester 2008

Wien, 21.04. 2008

- MR-Sicherheit von 1.5 bis 7 Tesla
17.Gemeinsame Deutsch - Österreichische
Strahlenschutztagung mit dem Generalthema: Multimodale Bildgebung
Wien, 18-19.04.2008
- MRI bei Knorpelschäden und Arthrose
Donau-Universität Krems, 11.-14.04.2008
- Der hyaline Knorpel
22. Röntgenseminar – Postgradueller Workshop
Oberlech, 02.- 05.04.2008
- Perspectives of MRI in Molecular Imaging
28th International Symposium “Radioactive isotopes in clinical medicine and research”
Bad Hofgastein, Austria, 09.-12.01.2008

2007

- MR Anwendertreffen 2007
MR-Sicherheit
Philips Medizinische Systeme
Hotel Modul Wien / 9/10.11.2007
- Recent advances in cartilage MR Imaging
High field (3 and 7 Tesla) MR Imaging of Musculoskeletal System
Musculoskeletal MRI Seminar/ 25.10.2007 Nicosia
- Moderne Knorpeldiagnostik in der MRT- Von der Morphologie zur
Biochemie Berufsverband d.Fachärzte für Orthopädie
17.10.07 Adelsried
- International Cartilage Repair Society
Workshop / MRI of cartilage repair
ICRS 30.09.2007 Warsaw / PL

- Advanced techniques at 3 Tesla in CNS
Application and Future Improvement at 7 Tesla
Advanced Imaging Multimodality Seminars
Tokio, 7-8 Juli 2007
- Wissenschaftliches Symposium „Knorpel und Arthrose“
Mittersil 22-24.Juni 2007
- „Hochfeld MRT (3Tesla) unter besonderer Berücksichtigung von
MR-Sicherheitsaspekten“
VBDO-Tage und
13.MRCT Symposium Pörschach 07-10.Juni 2007
- MRT und MDCT Workshop, CT-und MR-Angiographie Updat
3T MRT: Klinische Applikationen Stegersbach 02.Juni 2007
- Do technologie drive the future?
Satellite Symposium
ISMRM-ESMRMB 2007 Guerbet Berlin 22.05.2007
- MRT mit 3T: Magie, Prestige oder Progress? Uptate 2007
Hotel Imperial, Wien 12.05.07
- International Opening Symposium
Cluster for Tissue Regeneration
Lorenz Böhler Trauma Center 19.04.2007 Wien,
- Hochfeld-MR:3, 4 und 7 Tesla, Bildgebung und neue Techniken
Wiener Hofburg, 03.03.2007 Wien
- Bildgebende Diagnostik beim Kopf-Nacken-Schultergürtelschmerz
2.CEOPS Schmerzkongress,
Technische Museum 23-24.2.07
- 12th International MRI Symposium
3T-MRT- Application im Muskel-Skelett-System
Garmisch-Partenkirchen 30.-31.1.2007

2006

- CT/MR of articular cartilage
Refresher-Kurs: Osteochondral autografts
ECR Wien, 3.-7.März 2006
- Bildgebende Diagnostik bei Gelenkknorpelschäden im Sport
Bildgebende Diagnostik und Beurteilung von artikulären Binnenschäden
GOTS Meeting München 12 bis 14 Mai 2006
- Cartilage Lesions-Degeneration and Osteoarthritis-Chondral and Osteochondral Injury Cartilage Repair
ESSR Congress Bruges/ Belgium June 9-10, 2006
- Moderne bildgebende Diagnostik bei Gelenkknorpelschäden
Bielefelder Symposium „State of The Art in Orthopädie,
Unfallchirurgie und Physiotherapie“ am 25. März 2006
- Kontrastmittelanfärbeverhalten zerebraler Kavernome
Deutscher Röntgenkongress, Berlin (D) 26.Mai 2006
- MRI of the Head and Neck
Basic technical requirements
Erasmus course MRI of the Head and Neck, Wien, 12.-16.2.2006
- Two-year follow-up of matrix-associated autologous chondrocyte implantation based on collagen membrane I/III by serial high-resolution magnetic resonance imaging
- Temporary detrimental effect of a high field 3 Tesla Magnetic Resonance to chondrocyte biosynthetic activity
6th ICRS Symposium to take place
January 8-11, 2006, in San Diego, CA, USA
- MR-Bildung des Knorpels und Knorpeltransplantats: Von der Morphologie über die Biochemie zur Biomechanik
Wissenschaftliche Sitzung der Gesellschaft der Ärzte, Wien 10.05.2006
- Funktion und Morphologie im Dialog: Neue Aspekte der Bildgebung vertebra gener

Schmerzsyndrome

Wissenschaftliche Sitzung AKH-Hörsaalzentrum am 21.6.2006

- MR-Sicherheit -, Es betrifft uns alle“
Vienna AKH, 23.3.2006
- Radiologische Diagnostik der Sella
Endoscopic Pituitary Surgery IV. Hands-on Workshop
Vienna, September 8-9 2006
- From 2D to 3D in orthopedics utilizing SPACE and GRAPPA
Siemens World Summit-Meeting 8-10. Juni 2006 San Diego CA

2005

- Detection of early degenerative lesions in cartilage using
23Na MRI, ESMRMB,
Kopenhagen/Dänemark September 2004
- Disorders of the hyaline cartilage: which assessment is clinically relevant
14th European Congress of Physical and Rehabilitation
Medicine, Wien, Juni 2004.
- Bildgebung im Sport, Sportorthopädie
Seminar Villach Juli 2004
- Radiology of sellar lesions, Endoscopic Pituitary Surgery, II. Hands-on Workshop,
Vienna, 10-11. Sept. 2004
- MR-Diagnostik des Knorpelschadens,
Wiener Radiologisches Symposium,
Wien, 12.-13. Nov. 2004

2003

- Modern imaging techniques,
Articular cartilage and transplantation symposium,
AKH/Univ. Kliniken Vienna, 2003, Oct 18
- Postoperative long term results: Imaging,
Articular cartilage and transplantation symposium,
AKH/Univ. Kliniken Vienna, 2003, Oct 18
Klinische Symptomatik und biochemische Evaluierung hypophysärer
Erkrankungen – Makrotumore,
20. Wiener Radiologisches Symposium 2003, 14./15. Nov.
- Postoperatives Kniegelenk einschließlich Knorpel,
Refresherkurs 17,
84.Deutscher Röntgenkongress, Wiesbaden, 2003, 29.5
- MRT der Hypophyse,
Frühlingsseminar Wachau, 2003, 17. Mai
- Osteoarthritis update,
ISS-2003, San Francisco Sept 15
- Matrix-based autologous chondrocyte implantation for cartilage repair: non-invasive
monitoring by high-resolution magnetic resonance imaging,
ISS-2003, San Francisco Sept
- 3 Tesla-MRT: von der Forschung in die klinische Routine,
Donnerstagsnachmittagsseminar
Univ. Klinik für Radiodiagnostik Wien, 2003; 27. März
- Erasmus course; MRI of the head and neck:
Basic technical requirements Wien 2003, 10.-14. Feb.
- Neue Techniken, Sequenzen und Artefakte,
MR-Basiskurs, Wien 2003, 16.Jänner

- 3-MRT – Routineanwendungen, Herbstseminar
Wachau 2003; 4. Oktober
- Endoskopische Hypophysenchirurgie/Anatomie, Bildgebende Diagnostik,
Wien 2003; 10.-11. Oktober
- Bildgebung bei Mononeuropathien,
Neuroscience Wintermeeting,
Kitzbühl 2003; 22.-25. März
- Hochauflösende Bildgebung mit 3T-MRT in der Neurochirurgie,
Neuronet-Meeting,
Wien, 2003; 21. November
- Matrixgestützte, autologe Chondrozyten-Transplantationen – nichtinvasive
- Verlaufskontrolle und Scoring mittels hochauflösender MRT,
Wissenschaftliche Sitzung der Sektion Wien der ÖRG,
Wien, 2003; 10. November

2002

- Radiologische Beurteilung der Sehnen am Fuss
4. Gersthofer Fuss Symposium,
1. Abteilung orthop. KH Gersthof, 7. September 2002
- Plenary session: In vivo contrast media application on a
high field system (1.5 vs 3 Tesla), 2001
19th Annual Meeting of the European Society for Magnetic Resonance in
Medicine and Biology (ESMRMB),
Cannes,F, August 22-25, 2002
- MRT der unteren Extremität,
MR-Seminar am Attersee,
August 14-16, 2002
- MRT des Schultergelenkes, MR 2002 Compact,
Bamberg, Erlangen-Nürnberg, 6.-8.Juni 2002
- Knorpeldiagnostik in der MRT
Frühlingsseminar Wachau, Mai 4, 2002
- Die Magnetresonanztomographie in der Knorpeldiagnostik,
Arbeitskreis „Knorpel“ der Österr. Gesellschaft für Unfallchirurgie,
Radiologische Aspekte, Symposium Mammahypertrophie,
Wien, A, März 15, 2002
- MR-Technik und Anatomie, Spezialkurs Hals/Gesichtsschädel-Diagnostik
Wien, Februar 15-16, 2002

2001

- Moderne Knorpeldiagnostik, Wiener Symposium, Molekulare Orthopädie in Praxis und Klinik,
Hotel Hilton, 1030 Wien, 12. Dezember 2001
- Knieschmerz, 2001Kotscher-Fortbildung der ÖRG,
Wien, Oktober 2001
- MRT des Sprunggelenkes, Herbst-Seminar,
Deutschlansberg, A, Oktober 12-13, 2001
- Kniegelenk, 15.Röntgenseminar – Oberlech,
Arlberg 19.4-21.4.2001
- Refresherkurs: Moderne Knorpeldiagnostik mit MRT,
82. Deutscher Röntgenkongreß (DRG),
Wiesbaden, Deutschland 24.5.-26.5.2001
- Stellenwert der Bildgebung bei der Arthrose
- Konsensus-Meeting „Arthrose – Diagnostik & Therapie,
Wien 8.3 2001,
- MR-Arthrographie des Schultergelenkes
Schulterchirurgie 2000: Neueste Entwicklungen der operativen Schulterchirurgie,
Bad Gastein, A, Jänner 20, 2001

2000

- Bildgebende Diagnostik des traumatisierten Kniegelenkes,
- Refresherkurs: Knorpel und Gelenke in der bildgebenden Diagnostik,
81. Deutscher Röntgenkongreß (DRG),
Wiesbaden, Deutschland, 31.5.-3.6.
- Vergleich der Relaxationszeitmessungen in der Frühdiagnostik von
Knorpelveränderungen, 2000Wissenschaftliche Sitzung
der Sektion Wien der ÖRG,
Wien 5.6.2000,
- MRI of the Head and Neck: basic technical requirements,
Erasmus Course "MRI of the Head and Neck,
31.1.-4.2.2000,
- MR-Arthrographie des Schultergelenkes, Wien Schulterchirurgie 2000:
Neueste Entwicklungen der operativen Schulterchirurgie,
Bad Gastein, A, Jänner 20,
- Radiologie des Fußes I: Trauma – konventionelles Röntgen, CT, MRT, 2001
Wiener Radiologisches Symposium,
Wien, 10-11.11.2000,

1999

- Moderne bildgebende Diagnostik beim Peitschenschlag
Update Chirurgie der peripheren Nerven –bilanz der Ergebnisse – Neue Wege;
AKH-Wien, Hörsaalzentrum, 17.12.1999
- MRT: Prinzipien und neue Techniken der Diagnostik
Deutsche Gesellschaft für Unfallchirurgie, 63. Jahrestagung,
Berlin, 17.-20.11.1999
- Moderne Knorpeldiagnostik
Erasmus Course – Musculoskeletal MRI,
Antwerpen, 12.-16.11.1999
- Accuracy of MRI in muscle injuries with clinical correlation
Spezialkurs Bildgebende Diagnostik in der Rheumatologie,
AKH-Wien, Hörsaalzentrum, 29.-30.10.1999
- Knee: pathology (menisci – ligaments)
7th Int. Orthopedic Trauma and Sport Medicine Meeting,
Puerto Rico, 23., – 27.10.1999
- Meet the professor session: MR arthrography of the shoulder
ÄKVÖ-Symposium „Peitschenschlag“ Volkskrankheit oder
Versicherungsbetrug?,
Hotel Penta, Wien, 19.10.1999

- Advanced MRI imaging techniques in the musculo-skeletal system
9. Wiener MR-Symposium „2. Experimenteller MR-Workshop in vivo NMR“,
AKH-Wien, Hörsaalzentrum, 2.-3.7.1999
- Klinische Erfahrungen mit dem neuen MR-Gradientensystem – Power-Trak 3000:
Applikationen im Muskelskelettsystem und ZNS
- Knie: Ligaments
- Knie: Postoperative
2nd International Congress for Imaging in Sports 1999,
- **Salzburg, Austria, 10.-12.6.1999**

1998

- Refresher Course: The role of advanced techniques in MR imaging
of head and neck
13.Soproner US-und MRT-Tage,
Sopron, U, Oktober 9-11,1998
- Mini Categorical Course: Advanced musculoskeletal MR
11th Annual Meeting of the European Society of Head and Neck Radiology (ESHNR),
Vienna, A, Oktober 1-3, 1998
- Weichteiltumore
15th Annual Meeting of the European Society for
Magnetic Resonance in Medicine and Biology (ESMRMB),
Genf, CH, September 17-20, 1998
- Knochentumore
Radiologische Fortbildung der Ärztekammer für Kärnten
Klagenfurt, A, Juni 15, 1998
- Karpal-/Tarsaltunnelsyndrom
Radiologische Fortbildung der Ärztekammer für Kärnten
Klagenfurt, A, Mai 11, 1998

1997

- MR Arthrography: Lower Limb
Radiologisches Symposium "Aktuelle Magnetresonanztomographi(MRT) des Skeletts,
Stuttgart, D, November 22, 1997
- MR-Gelenksdiagnostik heute
Radiologische Fortbildung der Ärztekammer für Kärnten
Klagenfurt, A, Oktober 20, 1997
- Bildgebende Diagnostik des Schultergelenkes
ESSR 4th Annual Meeting Refresher Course,
Venedig, I, October 10, 1997
- Bildgebende Diagnostik von Sprunggelenk und Fuss
Österreichische Röntgengesellschaft: 8. Wiener MR-Symposium
Wien, A, September 5-6, 1997
- MRI of the Head and Neck: basic technical requirements (magnets,
coils, sequences) Interv. MRI/MR-Fluoro
Radiologische Fortbildung der Ärztekammer für Kärnten
Klagenfurt, A, Juni 16, 1997
- Clinical Applications of EPI and GRASE
Erasmus Course: MRI of the head and neck, AKH
Vienna, A, February 17-21, 1997

1996

- Diagnostik des spinalen Traumas mit MRT
NMR/MRI Symposium of the Norwegian Society for Medical Physicists,
Oslo, Norway, October 10-12, 1996
- EPI & GRASE
Session, Discussion and symposium binder
Ärztliche Fortbildung der Deutschen Gesellschaft für Wehrmedizin:
"Traumatologie und MRT - Grenzen, Möglichkeiten, Perspektiven"
Ulm, D, Oktober 5, 1996
- EPI & GRASE
Session, Discussion and Break-out Group
Philips EPI/GRASE Symposium
Philips Competence Center Eindhoven,
Holland, August 26-27, 1996
- 2 Jahre praktische Erfahrung mit EPI / GRASE im AKH Wien
UK - Third Philips Gyroscan Users Group Meeting Stratford upon Avon,
UK, June 20, 1996
- MRI of articular cartilage: State of the art
MR-Forum III, MR-Zentrum des Instituts für Biomedizinische
Technik der Universität und ETH
Zürich, Schweiz, April 18, 1996

1995

- Neue MR-Sequenzen: Klinische Applikationen von GRASE/EPI/LOLO
(Manuskriptfassung)
Nat. Kongress für Muskuloskeletal-MRT,
Genua, I, November, 1995
- Knorpeldiagnostik und degenerative Gelenkserkrankungen
Philips-MR-Meeting,
Maastricht, NL, 23.-25.10.1995
- Klinische Erfahrungen mit schnellen und ultraschnellen Sequenzen
13. MR-Tagung, Klinikum der TU München,
München, 20. - 21.10.1995
- Schnelle und neue MR-Techniken: Anwendung, Erfahrungen
EPI (Echoplanar-Imaging) –Symposium,
Eindhoven, NL, 19. - 20.6.95
- Neue Sequenzen und Techniken in der MRT des Muskulo-Skeletalsystems
MR-Forum Schweiz, Suniswald 5.5.1995
- Specific MR-techniques in musculo-skeletal diseases
Spinal trauma and MRI
MRT-Arbeitskreis, Bochum (D), 3.5.1995
- Farbcodierte Duplex-Sonographie der extrakraniellen hirnversorgenden Gefäße
Erasmus-Kurs,
Wien, 20.-24.2.1995
- ÖRG, Friedrich Olbert Interventioneller Workshop
Baden bei Wien, 13.-14.1.1995

**WISSENSCHAFTLICHE PRÄSENTATIONEN MIT
ABSTRACTS**

(1995-2009)

gesamt: 1253

WISSENSCHAFTLICHE POSTER

gesamt: 78



LEISTUNGSBERICHT 2009
„Siegfried Trattnig“

Projekte:	(1- Vienna Spots of Excellence, 3-FWF, 1- BRIDGE des FFG, 1- OENB, , 1- Uni Infrastruktur I-III) 1 Bracco, 1- Siemens
Publikationen:	15 Top 11 Standard
Vorträge:	17 invited, 18 Präsentationen,
Gutachten:	1 für Dissertationen und Diplomarbeiten 2 für Habilitationen
Betreuung von PhD Programmen:	3
Reviewtätigkeit: für	15 Journale 3 Wissenschaftliche Fonds (National Institute of Health, Jubiläumsfond der Nationalbank, Bürgermeisterfond der Stadt Wien)

Publikationen

1. T2 and T2* mapping in patients after matrix-associated autologous chondrocyte transplantation: initial results on clinical use with 3.0-Tesla MRI.
Welsch GH, **Trattnig S**, Hughes T, Quirbach S, Olk A, Blanke M, Marlovits S, Mamisch TC.
Eur Radiol. 2009 Nov 25. [Epub ahead of print]
2. Diffusion-weighted MR for Differentiation of Breast Lesions at 3.0 T: How Does Selection of Diffusion Protocols Affect Diagnosis?
Bogner W, Gruber S, Pinker K, Grabner G, Stadlbauer A, Weber M, Moser E, Helbich TH, **Trattnig S**.
Radiology. 2009 Nov;253(2):341-51. Epub 2009 Jul 31.
3. The in vivo effects of unloading and compression on T1-Gd (dGEMRIC) relaxation times in healthy articular knee cartilage at 3.0 Tesla.
Mayerhoefer ME, Welsch GH, Mamisch TC, Kainberger F, Weber M, Nemeč S, Friedrich KM, Dirisamer A, **Trattnig S**.
Eur Radiol. 2009 Sep 1.
4. A phenomenological approach toward patient-specific computational modeling of articular cartilage including collagen fiber tracking.
Pierce DM, Trobin W, **Trattnig S**, Bischof H, Holzapfel GA.
J Biomech Eng. 2009 Sep;131(9):091006.
5. Three-dimensional magnetic resonance observation of cartilage repair tissue (MOCART) score assessed with an isotropic three-dimensional true fast imaging with steady-state precession sequence at 3.0 Tesla.
Welsch GH, Zak L, Mamisch TC, Resinger C, Marlovits S, **Trattnig S**.
Invest Radiol. 2009 Sep;44(9):603-12.
6. T1(Gd) gives comparable information as Delta T1 relaxation rate in dGEMRIC evaluation of cartilage repair tissue.
Trattnig S, Burstein D, Szomolanyi P, Pinker K, Welsch GH, Mamisch TC.
Invest Radiol. 2009 Sep;44(9):598-602.
7. A Combined High Temporal and High Spatial Resolution 3 Tesla MR Imaging Protocol for the Assessment of Breast Lesions: Initial Results.
Pinker K, Grabner G, Bogner W, Gruber S, Szomolanyi P, **Trattnig S**, Heinz-Peer G, Weber M, Fitzal F, Pluschnig U, Rudas M, Helbich T
Invest Radiol. 2009 Sep;44(9):553-8.

8. A combined high temporal and high spatial resolution 3 Tesla MR imaging protocol for the assessment of breast lesions: initial results.
Pinker K, Grabner G, Bogner W, Gruber S, Szomolanyi P, **Trattnig S**, Heinz-Peer G, Weber M, Fitzal F, Pluschnig U, Rudas M, Helbich T.
Invest Radiol. 2009 Sep;44(9):553-8.
9. Assessment of (31)P relaxation times in the human calf muscle: A comparison between 3 T and 7 T in vivo.
Bogner W, Chmelik M, Schmid AI, Moser E, **Trattnig S**, Gruber S.
Magn Reson Med. 2009 Sep;62(3):574-82.
10. Multimodal approach in the use of clinical scoring, morphological MRI and biochemical T2-mapping and diffusion-weighted imaging in their ability to assess differences between cartilage repair tissue after microfracture therapy and matrix-associated autologous chondrocyte transplantation: a pilot study.
Welsch GH, **Trattnig S**, Domayer S, Marlovits S, White LM, Mamisch TC.
Osteoarthritis Cartilage. 2009 Sep;17(9):1219-27. Epub 2009 Apr 17.
11. Tibial cartilage hypertrophy due to matrix-associated autologous chondrocyte transplantation of the medial femoral condyle. A case report
Welsch GH, **Trattnig S**, Tichy B, Mamisch TC, Wondrasch B, Marlovits S
J Bone Joint Surg Am. 2009 Aug;91(8):1996-2001
12. Quantitative T2 mapping during follow-up after matrix-associated autologous chondrocyte transplantation (MACT): Full-thickness and zonal evaluation to visualize the maturation of cartilage repair tissue.
Welsch GH, Mamisch TC, Marlovits S, Glaser C, Friedrich K, Hennig FF, Salomonowitz E, **Trattnig S**.
J Orthop Res. 2009 Jul;27(7):957-63.
13. Rapid estimation of cartilage T2 based on double echo at steady state (DESS) with 3 Tesla.
Welsch GH, Scheffler K, Mamisch TC, Hughes T, Millington S, Deimling M, **Trattnig S**.
Magn Reson Med. 2009 Aug;62(2):544-9.
14. Effects of Magnetic Resonance Image Interpolation on the Results of Texture-Based Pattern Classification: A Phantom Study.
Mayerhoefer ME, Szomolanyi P, Jirak D, Berg A, Materka A, Dirisamer A, **Trattnig S**.
Med Phys. 2009 Apr;36(4):1236-43.
15. [Radiological diagnosis of femoroacetabular impingement.]
Mamisch TC, Werlen S, Zilkens C, **Trattnig S**, Kim YJ, Siebenrock KA, Bittersohl B.

Radiologe. 2009 May;49(5):425-33. German.

16. [Coxarthrosis - an update.]

Imhof H, Nöbauer-Huhmann I, **Trattnig S**.

Radiologe. 2009 May;49(5):400-9. German.

17. Effects of MRI acquisition parameter variations and protocol heterogeneity on the results of texture analysis and pattern discrimination: an application-oriented study.

Mayerhoefer ME, Szomolanyi P, Jirak D, Materka A, **Trattnig S**.

Med Phys. 2009 Apr;36(4):1236-43.

18. In vitro determination of biomechanical properties of human articular cartilage in osteoarthritis using multi-parametric MRI.

Juras V, Bittsinsky M, Majdisova Z, Szomolanyi P, Sulzbacher I, Gäbler S, Stampfl J, Schüller G, **Trattnig S**.

J Magn Reson. 2009 Mar;197(1):40-7.

19. Initial results of in vivo high-resolution morphological and biochemical cartilage imaging of patients after matrix-associated autologous chondrocyte transplantation (MACT) of the ankle.

Quirbach S, **Trattnig S**, Marlovits S, Zimmermann V, Domayer S, Dorotka R, Mamisch TC, Bohndorf K, Welsch GH.

Skeletal Radiol. 2009 Aug;38(8):751-60. Epub 2009 Mar 19.

20. MR imaging of cartilage and its repair in the knee - a review.

Trattnig S, Domayer S, Welsch GW, Mosher T, Eckstein F.

Eur Radiol. 2009 Jul;19(7):1582-94. Epub 2009 Mar 13. Review.

21. In vivo quantification of intracerebral GABA by single-voxel (1)H-MRS-How reproducible are the results?

Bogner W, Gruber S, Doelken M, Stadlbauer A, Ganslandt O, Boettcher U, **Trattnig S**, Doerfler A, Stefan H, Hammen T.

Eur J Radiol. 2009 Feb 5. [Epub ahead of print]

22. Diffusion-weighted imaging for the follow-up of patients after matrix-associated autologous chondrocyte transplantation.

Friedrich KM, Mamisch TC, Plank C, Langs G, Marlovits S, Salomonowitz E, **Trattnig S**, Welsch G.

Eur J Radiol. 2009 Jan 30. [Epub ahead of print]

23. T2 mapping and dGEMRIC after autologous chondrocyte implantation with a fibrin-based scaffold in the knee: Preliminary results.

Domayer SE, Welsch GH, Nehrer S, Chiari C, Dorotka R, Szomolanyi P, Mamisch TC, Yayon A,

Trattnig S.

Eur J Radiol. 2009 Jan 19. [Epub ahead of print]

Publikationen in press

24. Clinical use of diffusion weighted imaging and T2 relaxation for the differentiation of cartilage repair tissue in patients after microfracture therapy (MFX) and matrix-associated autologous chondrocyte transplantation (MACT):

a feasibility study

G.H. Welsch, **S. Trattnig**, S. Domayer, S. Marlovits, L.M. White, T.C. Mamisch.

Corresponding author: **Trattnig S**

Osteoarthritis and Cartilage (accepted with revisions)

25. 3D GRE sequence with two different flip angle excitation pulses for zonal T1- mapping of articular cartilage at 3T: one-year follow-up in patients after matrix-associated autologous chondrocyte transplantation (MACT) of the knee joint (preliminary results)

K. Pinker, P. Szomolanyi, G H. Welsch, T. C. Mamisch, S. Marlovits, A.Stadlbauer, E.

Salomonowitz, **Trattnig S.** AJR (in press)

26. T2 Mapping versus Diffusion-Weighted Imaging for the Assessment of Cartilage Repair Tissue after Matrix-Associated Autologous Chondrocyte

Transplantation at 3.0 Tesla

Trattnig S.

European Musculoskeletal Review Volume 3 (in press)

Reviewtätigkeit für folgende Journale

“European Journal of Radiology”,

“European Radiology“

“Investigative Radiology“

“Magnetic Resonance in Medicine”

“Röntgen Fortschritte”

Journal of Magnetic Resonance Imaging”

“Neuroradiology”

“Osteoarthritis and Cartilage”

“Der Radiologe“

“Annals of the Rheumatic Diseases”

“Arthritis Research and Therapy”

“Journal of Orthopedics and related research”

“American Journal of Radiology”

„American Journal of Neuroradiology“

Ernennungen

Speaker der European Society of Radiology –

Europäische Initiative: Medical Devices Exploratory Process

Speaker der MUW für den Antrag Doktoratskolleg plus Programm des FWF: “Biomedical Engineering” Interuniversitär Kooperation MUW-TUW

ICRS Speaker für den internationalen State of the art article: “Imaging of Cartilage Repair”

Member of the EMEA Advisory Board

ESFRI Roadmap for pan European reseach infrastructures.

Knoten: Ultra Hochfeld MR

Editorial Board Member: für folgende Journale

Insights into Imaging

World Journal of Radiology

Recent Patents in Imaging

Projekteinreichungen

ERC Advanced Investigator Grant: Treshholds für die 1.und 2.Stufe geschafft, trotzdem keine Finanzierung, aber Möglichkeit der nochmaligen Einreichung

Doctoral Programm - Plus (DK-plus) in Biomedical Engineering

Doktoratskolleg - Plus (DK-plus) in Biomedizinische Technik

eingereicht am 1.November 2009

laufende Projekte

Uni-Infrastrukturprogramm II des BM für Bildung, Wissenschaft und Kultur

Grossgeräte-Antrag für ein 7 Tesla Ganzkörper-MRT eingereicht

von Trattnig S und Moser E vom Kompetenzzentrum für Hochfeld-MR

bewilligt im Juli 2005

Bewilligte Summe: **4 Mio €** aufgeteilt auf 3 Jahre

Vienna Spots of Excellence des Wiener Wissenschafts-und Technologie-Fonds (WWTF)

Vienna Advanced Imaging Center (VIACLIC) FA102A0017

bewilligt am 01.12.2008

bewilligte Summe: **2 Mio€**

Fa. Siemens FA771AO101

7T- Hochfeld MR

Bewilligt am 04.05.2005

Bewilligte Summe: **810.000€**

Je 50% S.Trattnig, E.Moser **405.000€**

BRIDGE-Programm des FFG

Sequenztechnik-Entwicklung und Optimierung am Hochfeld-MR (3+7 Telsa)

Bewilligt am 28.6.2006

bewilligte Summe: **342.700 €**

FWF-Projekt P18110-B15

Visualization of Biomechanical properties of articular cartilage by MR

bewilligt am 21.06.2005,

bewilligte Summe: **408.000 €**

FWF APL00494FW

Biochemical Imaging of intervertebral disc at 3T

bewilligt am 02.06.2008,

bewilligte Summe: **294.800€**

FWF-TRP-Projekt L243-B15

Monitoring of autologous cartilage implantation by 3T MR.

Bewilligt am 12.10.2005,

bewilligte Summe: **286.000€**

Öst.Nationalbank AP11954ONB

Improved preoperative evaluation of cerebral cavernous hemangiomas by high resolution and contrast-enhanced SWI-high field MRT (3T). Comparison with standard MRI and histopathology.

Bewilligt am 01.07.2006,

bewilligte Summe: **41.000€**

Bracco Group

Vergleich der KM-Aufnahme von Hirntumoren

bei 3Tesla und 7 Tesla

bewilligte Summe: **15.000 €**

Lehre

PhD Programm Mag.Marek Chmelik

PhD Programm Dr.David Stelzeneder

PhD Programm Stephan Domayer

501046 Journal Club: Regeneration von Knochen und Gelenken

501047 Thesis Seminar: Regeneration von Knochen und Gelenken.

532313 Der Bewegungsapparat in der Magnetresonanz

902590 Journal Club

902592 Thesis Seminars

902653 Practical Course: Regeneration von Knochen und Gelenken.

(Introduction to MRT)

902785 Bone and Joint regeneration

Organisation

- Tagungspräsident
Jahrestagung des Verbandes für Medizinischen Strahlenschutz Österreichs
Strahlenschutz Interdisziplinär
MuseumsQuartier, Wien, 6.11.2009
- Faculty
Programm - Komitee
10TH EFFORT Congress , Vienna, Austria 3.-6. June 2009
- Programm - Komitee
ICRS 8th World Congress of the International Cartilage Repair Society
23 - 26.May 2009, Miami Florida, USA

Invited talks

- Molekulare Bildgebung der Bandscheibe
7.Interdisziplinärer Van Swieten Kongress
Wien, AT, 27.- 28.11.2009
- Von Routine MRT mit 3T zur Forschung mit 7T
14. Radiologie - Update, Innsbruck, AT, 19.11.2009
- Knorpelbildung bei 3- und 7 Tesla
26.Herbst-Symposium, München, Deutschland, 14.11.2009

- MRT bei 1,5T, 3T oder 7Tesla
- Muskuloskelettale Bildgebung bei Sportverletzungen
**15.klinisch-Radiologischen Symposium
in Stuttgart, Deutschland, 17.10.2009**
- Imaging of Post- Operative Cartilage Repair
**36th Annual Imaging Update Courses, Washington, USA
2.-5.September 2009**
- Cartilage Biology
**Internationales Symposium, Larissa,
Griechenland 20.Juni 2009**
- New MR techniques in MSK system at high and
ultra-high field (3T-7T)
16th ESSR Annual Congress, Genua, Italien, 11-13 Juni 200
- VIACLIC Collaboration incl.CEST
**AGENDA Advisory Board Orthopedic Diagnostics
Erlangen, Deutschland, 4.Juni 2009**
- Biomedical and biomechanical MR imaging of the intervertebral disc.
- **10TH EFFORT Congress , Vienna, Austria 3.-6. June**
- From Morphological to Biochemical MRI of Cartilage Repair
**ICRS 8th World Congress of the International Cartilage Repair Society
23 - 26.May 2009, Miami Florida, USA**
- High field MR imaging of the lower extremity
**ISMRM 17th Scientific Meeting & Exhibition,
18-24.4.2009 Honolulu**
- MRI of sellar lesion
- High-field MR (3.0 Tesla) in MSK: pros and cons
- Imaging of the degenerative spine
- Susceptibility-weighted imaging of the brain
**5th Congress of the Radiological Society of
Saudi Arabia, 30.3-3.4.2009**

Präsentationen

1. T_1 (Gd) gives comparable information as delta T_1 relaxation rate in dGEMBRIC evaluation of cartilage repair tissue.

S.Trattnig, D.Burnstein, P.Szomolanyi, K.Pinker, G.H.Welsch, T.C.Mamisch

2. Cartilage repair in the patella and the medial femoral condyle- Topographical differentiation using morphological MRI and biochemical zonal T2 mapping
G.H.Welsch, T.C.Mamisch, L.Zak, S.Quirbach, F. Henning, S.Marlovits, **S.Trattnig**.
3. Multiparametric in vivo MR for Repair Tissue Differentiation
G.H. Welsch, T.C.Mamisch, S.Domayer, S. Marlovits, **S.Trattnig**
4. From Morphological to Biochemical MRI of Cartilage Repair
S.Trattnig
ICRS 8th Word Congress of the International Cartilage Repair Society
23 - 26.May 2009, Miami Florida, USA
5. Morphological and Biochemical (T2) MR Evaluation and Comparison of Cartilage Repair Tissue of the Patella and the Medial Femoral Condyle.
Goetz Hannes Welsch¹, T. Ch. Mamisch, L. Zak, S. Quirbach, St Marlovits, **S. Trattnig**
6. Comparison of Different Diffusion Parameters in DWI for Differentiation of Breast Lesions: The Influence of the Choice of B-Values.
W.Bogner, St.Gruber, K.Pinker, G.Grabner, A.Stadlbauer, E.Moser, Th.Helbich, **S.Trattnig**.
7. Three-Dimensional Magnetic Resonance Observation of Cartilage Repair Tissue (3D MOCART) Score Assessed with an Isotropic 3D-True-FISP Sequence at 3.0 Tesla
G.H.Welsch, L.Zak, T.Ch.Mamisch, Ch.Resinger, St.Marlovits, **S.Trattnig**.
8. Three Dimensional ¹H Magnetic Resonance Spectroscopy in Breast Cancer as an Indicator of Therapy Response. a A Pilot Study
St.Gruber, W.Bogner, M.Chmelik, K.Pinker, L.Ponhold, M.Krassak, **S.Trattnig**.
9. Deconvolved SWI Phase Model of Patients with Parkinson Disease.
G.Grabner, **S.Trattnig**, M.Barth
10. High Contrast and High Resolution in Vitro Susceptibility Imaging (SWI) at 7 Tesla.
G. Grabner, A-M von Cappellen van Walsum, **S.Trattnig**, M.Barth
11. Detection of Degenerative Cartilage Disease: Comparison of High Resolution Morphological MR and Quantitative T2 Mapping at 3 Tesla.
S.Trattnig, S.Apprich, P.Szomolanyi, M.Mayerhöfer, K.Pinker,

T.CH.Marmisch, G.H.Welsch.

12. In Vitro Correlation of MR Parameters Under Loading with Biomechanical Properties of Degenerated Articular Cartilage.
V.Juras, P.Szomolanyi, Z.Majdisova, I.Sulzbacher, St.Gäbler, **S.Trattnig**,
13. In Vivo Effects of Unloading and Compression on T2 and T1 Gd (DGEMRIC) Relaxation Times of Healthy Knee Articular Cartilage at 3 Tesla
M.Mayerhöfer, G.Welsch, T.Ch.Marmisch, **S.Trattnig**
14. Sodium in Vivo Measurement of T1 and T2 Relaxation Times of Articular Cartilage at 7 Tesla
St.Zbyn, V.Juras, W.Bogner, P.Szomolanyi, G.H.Welsch, M.Bittsansky, V.Mlynarik, E.Moser, **S.Trattnig**.
15. Hepatic Phosphorus Metabolite Concentrations of Patients with Type 2 Diabetes Assessed by 31 P 3D MRSI.
M.Chmelik, A.I.Schmid, St.Gruber, W.Bogner, J. Szendroedi, M.Krssak, **S.Trattnig**, E.Moser, M.Roden.
16. Dynamic Contrast-Enhanced Magnetic Resonance Imaging of the Breast at 3.0 Tesla: Combination of High Temporal- And Spatial Resolution - A New Approach
G Grabner, K Pinker, St Gruber, W Bogner, Th Helbich, **S Trattnig**
17. Relaxation Time Measurements of 31P Metabolites in the Human Calf Muscle at 7 Tesla
W Bogner, M Chmelik, A I Schmid, E Moser, **S Trattnig**, St Gruber
Deconvolution and QSI of Simulated Phase Images of the Human Brain: Applications to Assess Susceptibility
G Grabner, **S Trattnig**, M Barth
ISMRM 17th Scientific Meeting & Exhibition, 18-24.4.2009 Honolulu



LEISTUNGSBERICHT 2008

„Siegfried Trattnig“

- Projekte:** (1- Vienna Spots of Excellence, 3-FWF,
1- BRIDGE des FFG, 2 OENB, 1- Uni Infrastruktur I-III
1 BMF der Stadt Wien)
- Publikationen:** 12 Top 11 Standard
- Vorträge:** 18 invited, 25 (oral presentation), . Posterpräsentationen,
- Gutachten:** 2 für Dissertationen und Diplomarbeiten
2 für Habilitationen
- Betreuung von
PhD Programmen:** 2
- Reviewtätigkeit:** für 14 Journale
3 Wissenschaftliche Fonds
(National Institute of Health, Jubiläumsfond der
Nationalbank, Bürgermeisterfond der Stadt Wien)
-

Publikationen

27. Evaluation and comparison of cartilage repair tissue of the patella and medial femoral condyle by using morphological MRI and biochemical zonal T2 mapping.
Welsch GH, Mamisch TC, Quirbach S, Zak L, Marlovits S, **Trattnig S.**
Eur Radiol. 2008 Dec 23
28. Kinematic biomechanical assessment of human articular cartilage transplants in the knee using 3-T MRI: an in vivo reproducibility study.
Juras V, Welsch GH, Millington S, Szomolanyi P, Mamisch TC, Pinker K, **Trattnig S.**
Eur Radiol. 2008 Dec 5.
29. In vitro determination of biomechanical properties of human articular cartilage in osteoarthritis using multi-parametric MRI.
Juras V, Bittsanky M, Majdisova Z, Szomolanyi P, Sulzbacher I, Gäbler S, Stampfl J, Schüller G, **Trattnig S.**
J Magn Reson. 2008 Dec 8.
30. MRI Monitoring of Cartilage Repair in the Knee: A Review.
Domayer SE, Welsch GH, Dorotka R, Mamisch TC, Marlovits S, Szomolanyi P, **Trattnig S.**
Semin Musculoskelet Radiol. 2008 Dec;12(4):302-317. Epub 2008 Nov 18.
31. Long-term seizure control after resection of supratentorial cavernomas: a retrospective single-center study in 53 patients.
Stavrou I, Baumgartner C, Frischer JM, **Trattnig S**, Knosp E.
Neurosurgery. 2008 Nov;63(5):888-96; discussion 897.
32. Steady State Free Precession Magnetization Transfer Imaging
O.Bieri, T.C.Mamisch, **S.Trattnig**, K.Scheffler,
MRM 2008 Nov.; 60(5):1261-6
33. Longitudinal evaluation of cartilage composition of matrix-associated autologous chondrocyte transplants with 3-T delayed gadolinium-enhanced MRI of cartilage.
Pinker K, Szomolanyi P, Welsch GC, Mamisch TC, Marlovits S, Stadlbauer A, **Trattnig S.**
AJR Am J Roentgenol. 2008 Nov;191(5):1391-6.
34. Advanced Morphological and Biochemical Magnetic Resonance Imaging of Cartilage Repair Procedures in the Knee Joint at 3 Tesla
G. Welsch, TC. Mamisch, T .Hughes, S. Domayer, S. Marlovits, **S. Trattnig**

Seminars in Musculo-skeletal

Radiology 2008 Sep;12(3):196-211. Epub 2008 Oct 10.

35. Three-dimensional high-resolution magnetic resonance spectroscopic imaging for absolute quantification of ³¹P metabolites in human liver.
Chmelík M, Schmid AI, Gruber S, Szendroedi J, Krssák M, **Trattnig S**, Moser E, Roden M.
Magn Reson Med. 2008 Oct;60(4):796-802.
36. High field MR imaging of the musculoskeletal system.
Trattnig S, Mosher TJ.
Semin Musculoskelet Radiol. 2008 Sep;12(3):183. Epub 2008 Oct 10.
37. Magnetization Transfer Contrast and T2 mapping in the evaluation of cartilage repair tissue at 3 T MRI
G.H.Welsch, **S.Trattnig**, K.Scheffler, P.Szomolanyi, S.Quirbach, St.Marlovits, St.Domayer, O.Bieri, T.C.Mamisch
Corresponding author: S.Trattnig
J Magn Reson Imaging. 2008 Oct;28(4):979-86.
38. Magnetic Resonance Imaging of the Hip at 3 Tesla: Clinical Value in Femoroacetabular Impingement of the Hip and Current Concepts
TCM. Mamisch, B. Bittersohl, T. Hughes, Y. Kim, G. Welsch, M. Dudda, KA. Siebenrock, S. Werlen, **S. Trattnig**
Seminars in Musculo-skeletal Radiology
2008 Sep;12(3):212-22. Epub 2008 Oct 10.
39. Reference data for in vivo magnetic resonance imaging properties of meniscoids in the cervical zygapophyseal joints.
Friedrich KM, Reiter G, Pretterklieber ML, Pinker K, Friedrich M, **Trattnig S**, Salomonowitz E.
Spine. 2008 Oct 1;33(21):E778-83.
40. In-vivo biochemical dGEMRIC, zonal T2 and T2* mapping of articular cartilage - preliminary results
G.H. Welsch, T.C. Mamisch, T. Hughes, C. Zilkens, S. Quirbach, K. Scheffler, P. Szomolanyi, O. Kraff, M. Schweitzer, **S. Trattnig**.
Investigative Radiology 2008 Sep;43(9):619-26
41. High-resolution Magnetic Resonance Imaging and Conventional Magnetic Resonance Imaging on a Standard Field-strength Magnetic Resonance System Compared to Arthroscopy in Patients with Suspected Meniscal Tears.
Nemec SF, Marlovits S, **Trattnig S**, Matzek W, Mayerhoefer ME, Krestan CR.

Acad Radiol. 2008 Jul;15(7):928-33.

42. Persistent bone marrow edema after osteochondral autograft transplantation in the knee joint.
Nemec SF, Marlovits S, **Trattnig S**.
Eur J Radiol. 2008 May 19.
43. Magnetic resonance imaging for diagnosis and assessment of cartilage defect repairs.
Marlovits S, Mamisch TC, Vekszler G, Resinger C, **Trattnig S**.
Injury. 2008 Apr;39 Suppl 1:S13-25.
44. High-resolution morphological and biochemical imaging of articular cartilage of the ankle joint at 3.0 T using a new dedicated phased array coil: in vivo reproducibility study.
Welsch GH, Mamisch TC, Weber M, Horger W, Bohndorf K, **Trattnig S**.
Skeletal Radiol. 2008 Juni; 37(6): 519-26
45. Cartilage T2 assessment at 3-T MR imaging: in vivo differentiation of normal hyaline cartilage from reparative tissue after two cartilage repair procedures--initial experience.
Welsch GH, Mamisch TC, Domayer SE, Dorotka R, Kutscha-Lissberg F, Marlovits S, White LM, **Trattnig S**.
Radiology. 2008 Apr;247(1):154-61.
46. [Safety aspects in high-field magnetic resonance imaging.]
Mühlenweg M, Schaefers G, **Trattnig S**.
Radiologe. 2008 Mar;48(3):258-67. German.
47. Differentiating normal hyaline cartilage from post-surgical repair tissue using fast gradient echo imaging in delayed gadolinium-enhanced MRI (dGEMRIC) at 3 Tesla.
Trattnig S, Mamisch TC, Pinker K, Domayer S, Szomolanyi P, Marlovits S, Kutscha-Lissberg F, Welsch GH.
Eur Radiol. 2008 Feb 2; [Epub ahead of print]
48. T2 mapping in the knee after microfracture at 3.0T: correlation of global T2 values and clinical outcome - preliminary results.
Domayer SE, Kutscha-Lissberg F, Welsch G, Dorotka R, Nehrer S, Gäbler C, Mamisch TC, **Trattnig S**.
Osteoarthritis Cartilage. 2008 Jan 17; [Epub ahead of print]

Publikationen in press

49. MRI Monitoring of Cartilage Repair in the Knee: a review
Domayer SE, Welsch GH, Dorotka R, Mamisch TC, Marlovits S, Szomolanyi P, **S.Trattnig**

Special issue in Seminars in Musculoskeletal Radiology (in press)

50. Clinical use of diffusion weighted imaging and T2 relaxation for the differentiation of cartilage repair tissue in patients after microfracture therapy (MFX) and matrix-associated autologous chondrocyte transplantation (MACT):

a feasibility study

G.H. Welsch, **S. Trattnig**, S. Domayer, S. Marlovits, L.M. White, T.C. Mamisch.

Corresponding author: **S.Trattnig**

Osteoarthritis and Cartilage (accepted with revisions)

51. Quantitative T2 mapping in the follow-up after matrix-associated autologous chondrocyte transplantation (MACT) – Zonal variation as a marker to visualize the maturation of cartilage repair tissue

G.H. Welsch, T.C. Mamisch, E. Salomonowitz, S. Marlovits, C. Glaser,

S. Trattnig

Journal of Orthopaedic Research (accepted with revisions)

52. T2 Mapping versus Diffusion-Weighted Imaging for the Assessment of Cartilage Repair Tissue after Matrix-Associated Autologous Chondrocyte

Transplantation at 3.0 Tesla

S.Trattnig

European Musculoskeletal Review Volume 3 (in press)

Reviewtätigkeit für folgende Journale

“European Journal of Radiology”,

“European Radiology“

“Investigative Radiology“

“Magnetic Resonance in Medicine”

“Röntgen Fortschritte”

Journal of Magnetic Resonance Imaging”

“Neuroradiology”

“Osteoarthritis and Cartilage”

“Der Radiologe“

“Annals of the Rheumatic Diseases”

“Arthritis Research and Therapy”

“Journal of Orthopedics and related research”

“American Journal of Radiology”

„Journal of Morphology“

Ernennungen

Wissenschaftlicher Beirat der Österreichischen Gesellschaft für funktionelle MagnetResonanzTomographie

VMSSÖ

Leitung des Arbeitskreises Nichtionisierende Strahlen

Member of the Scientific Programm Committee of the International Cartilage Repair Society (ICRS) für den Kongress 2009

Nominierter NIH Grant (NIH NIAMS Grant reviews (BIRT awards) reviewer 2008

Member of the International MSK Scientific Advisory Board of Siemens AG Health Care Sector

Co-Editor for Investigative Radiology: Special issue on high field MR entitled "High field MR – the new clinical standard"

Guest editor for Seminars in Musculoskeletal Radiology Special issue on MSK imaging at 3T and beyond

Mitglied der Normierungskommission in Fragen der MR Sicherheit

Reviewer for Abstracts beim ESMRMB 02.-04.2008, Valencia, Spanien

Scientific expert and Chairperson for an Ad Hoc Expert Group of the European Medicines Agency (EMA)

Nomination as a referee for a professorship application of the MAYO Clinic, USA

Preise

Beste Präsentation in der Sektion Muskuloskeletal beim ECR 2008:

Three-dimensional delayed gadolinium enhanced MRI of cartilage (dGEMRIC) at 3 Tesla for in vivo differentiation of normal hyaline cartilage and reparative tissue in patients after different cartilage repair procedures: Preliminary results

S. Trattig, T.C. Mamisch, K. Pinker, P. Szomolanyi, S. Marlovits, S. Kutscha-Lissberg, G. Welsch

Projektbewilligungen

FWF-TRP-Projekt:

Biochemical Imaging of intervertebral disc at 3T

Bewilligt am 28. Februar 2008

Bewilligte Summe: **293.000€**

Vienna Spots of Excellence des Wiener Wissenschafts- und Technologie-Fonds (WWTF)

Vienna Advanced Imaging Center (VIACLIC)

bewilligt am 15. Juni 2008

Bewilligte Summe: **2 Mio €**

Jubiläumsfondprojekt Nr. 12983

Magnetresonanztomographie der Hüfte: histologische Validierung und Patientenanzwendung

Bewilligt am 28. Juni 2008

Bewilligte Summe: **89.000€**

Bürgermeisterfond der Stadt Wien Nr. 08011

Evaluierung von T2 mapping zur Erfassung

der Kollagenstruktur von Knorpelreparaturgewebe nach autologer

Knorpelzelltransplantation und Mikrofrakturierung im oberen Sprunggelenk

Bewilligt am 26. Mai 2008

Bewilligte Summe: **23.000€**

laufende Projekte

Uni-Infrastrukturprogramm II des BM für Bildung, Wissenschaft und Kultur

Grossgeräte-Antrag für ein 7 Tesla Ganzkörper-MRT eingereicht

von Trattig S und Moser E vom Kompetenzzentrum für Hochfeld-MR

bewilligt im Juli 2005

Bewilligte Summe: **4 Mio €**, aufgeteilt auf 3 Jahre

Jubiläumsfondprojekt Nr. 11954

Verbesserte präoperative Evaluation cerebraler kavernöser Gefäßmalformation mittels hochaufgelöster KM-verstärkter SWI-Hochfeld (3T) MRT-Vgl. mit Standard MRT und histopathologischen Befunden

Bewilligt am 29.6.2006

Bewilligte Summe: **41.000€**

BRIDGE-Programm des FFG

Sequenztechnik-Entwicklung und Optimierung am Hochfeld-MR (3+7 Telsa)

Bewilligt am 28.6.2006

bewilligte Summe: **340.000 €**

FWF-Projekt P18110-B15

Visualization of Biomechanical properties of articular cartilage by MR

bewilligt am 21.06.2005

bewilligte Summe: **408.000 €**

FWF-TRP-Projekt L243-B15

Monitoring of autologous cartilage implantation by 3T MR

bewilligt am 12.10.2005

bewilligte Summe: **286.000€**

Lehre

Betreuung von Dissertanten

Stephan Domayer, MD

PhD Program

Clinical relevance of cartilage repair tissue evaluation after microfracture and matrix associated autologous chondrocyte implantation with T2 and dGEMRIC

Doctoral Program of Applied Medical Science N790

Bone and Joint Regeneration

Principal investigators

Präsentationen (invited talks)

- MR-Workshop, MR Basics
Wien, 11.-12.10.2008
- Advanced Musculo-skeletal MR
ESMRMB/OCSSMRM School of MRI
Shenzen, China, 13.-15.12.2008
- Biochemische und biomechanische MR Bildgebung des Knorpels
3.Wiener Biomaterial-Symposium
Wien, 19.-21.11.2008
- Imaging the cartilage matrix
Plenary lecture ESMRMB
Valencia, 02.-04.10.2008

- Radiology
Endoscopic Pituitary Surgery – Workshop
Wien, 26.-27.09.2008
- “Vienna experience and whole-body applications of ultra-high-field MRI”
Initiation Symposium “Ultra-high-field MRI in Munich”
München, Deutschland, 25.07.2008
- From morphologic to biochemical Imaging
cartilage MRI at 3 and 7 Tesla
Advanced Cross Sectional Imaging 2008
Mannheim, Deutschland, 20-21.6.08
- Imaging at 3T
European Skeletal Society Radiology
15th Annual Meeting
Galway , Irland, 12-14.6.2008
- MR-Sicherheit unter besonderer Berücksichtigung der Hochfeld-MRT
51.Sitzung der Qualitätssicherungskommission des AKH der Stadt Wien
Wien, 5.06.2008
- Bone and Cartilage Imaging at 3.0 Tesla
Jahrestagung der Schweizerischen Radiologischen Gesellschaft
St.Gallen, CH, 29-31.5.08
- Imaging Techniques of Cartilage Repair
6th MAGNETOM World Summit Meeting
München, 29.5.-1.6.08
- Current Concepts in Muskuloskeletal MRI
Weekend Educational Course: Topic: Cartilage repair
ISMRM 16th Scientific Meeting & Exhibition
Toronto / Canada 3.-9.05.2008
- MRT in cartilage tissue engineering
PhD Programm 902005 “Bone and Joint Regeneration”
Wien, 21.04.2008
- Kniegelenk im MRT – eine einfache Diagnose?
Kotscherkurs Radiologie, Sommersemester 2008

“Hit Parade” der Fussballverletzungen

Wien, 21.04. 2008

- MR-Sicherheit von 1.5 bis 7 Tesla
17.Gemeinsame Deutsch - Österreichische
Strahlenschutztagung mit dem Generalthema: Multimodale Bildgebung
Wien, 18-19.04.2008
- MRI bei Knorpelschäden und Arthrose
Donau-Universität Krems, 11.-14.04.2008
- Der hyaline Knorpel
22. Röntgenseminar – Postgradueller Workshop
Oberlech, 02.- 05.04.2008
- Perspectives of MRI in Molecular Imaging
28th International Symposium “Radioactive isotopes in clinical medicine and research”
Bad Hofgastein, Austria, 09.-12.01.2008

Präsentationen

1. Analysis of quantitation performance of 3D-MRSI spectra from different prostate regions based on Cramér-Rao lower bounds
S.Zbyn, K.Kubin, M.Memarsadeghi, S.Gruber, E.Moser, **S.Trattnig**
2. Magnetization Transfer Contrast and T2 Relaxation in the Evaluation of Cartilage Repair Tissue at 3T MRI
G.H.Welsch, **S.Trattnig**, S.Quirbach, St.Marlovits, St.Domayer, O.Bieri, K.Scheffler, T.C.Mamisch
3. ³¹P 3D K-Space Weighted MRSI with Adiabatic Excitation: 3D Absolute Quantification of Phosphorus Metabolites in Human Liver
M.Cmelik, A.I.Schmid, St.Gruber, J.Szendroedi, M.Krssak, **S.Trattnig**, E.Moser, M.Roden
4. Quantitative T2 mapping of Knee Cartilage: Initial Results on the Differentiation of Healthy and Altered Articular Cartilage of the Knee by Means of Unloading
T.C.Marmisch, G.H.Welsch, S.Quirbach, S.Marlovits, **S.Trattnig**
5. T2 and T2* Relaxation as a Means to Evaluate Cartilage Repair Tissue – Initial Results
G.H.Welsch, T.Hughes, S.Quirbach, S.Domayer, S.Marlovits,
S.Trattnig, T.C.Mamisch

6. Imaging and Analysing Iron Accumulations in the Human Brain Using Magnetic Resonance Imaging
G.Grabner, D.Haubenberger, E.Auff, **S.Trattnig**
7. MR Contrast Media at 7Tesla Preliminary Study on Relaxivities
I.M.Nöbauer-Huhmann, O.Kraff, V.Juras, P.Szomolanyi, St.Maderwald, V.Mlynarik, J.M.Thyesohn, S.C.Ladd, M.E.Ladd, **S.Trattnig**
8. MRI Study of the Repair Tissue Following ACI in the Human Cartilage Specimens
Z.Majdisova, P.Szomolanyi, V.Juras, **S.Trattnig**
9. Comparison of T₁ and T₂ Relaxation Times in Articular Cartilage
P.Szomolanyi, V.Mlynarik, **S.Trattnig**
10. Magnetization Transfer of Cartilage and Cartilage Repair Tissue at Ultra-High Fields Using SSFP
O.Bieri, G.H.Welsch, T.C.Mamisch, O.Kraff, M.E.Ladd, K.Scheffler, **S.Trattnig**
11. Three Dimensional Spectroscopic Imaging in Breast Cancer at 3Tesla: A Pilot Study
St.Gruber, K.Pinker,
12. Strategies for Reliable Quantification of Intracerebral GABA By 1H-MRS
W.Bogner, St.Gruber, A.Stadlbauer, M.Doelken, **S.Trattnig**, A.Doerfler, H.Stefan, T.Hammer
13. Assessment of T1 and T2 MRI Parameters as a Predictors of Cartilage Implants Maturation: The Equine Subject Study
V.Juras, P.Szomolanyi, Z.Majdisova, **S.Trattnig**
14. 7Tesla MR – Initial Results on T2 and T2* Mapping of Healthy Articular Cartilage Repair Tissue
G.H.Welsch, T.C.Mamisch, S.Quirbach, T.Hughes, O.Kraff, M.E.Ladd, C.Zilkens, O.Bieri, K.Scheffler, **S.Trattnig**
15. dGEMRIC at 7 Tesla – Feasibility Study
S.Trattnig, G.H.Welsch, K.Pinker, T.Hughes, O.Kraff, M.Ladd, P.Szomolanyi, O.Bieri, K.Scheffler, T.C.Mamisch
16. Kinematic Biochemical Studies of Cartilage Trasplants at 3Tesla
S.Trattnig, T.C.Mamisch, C.Plank, P.Szomolanyi, S.Quirbach, G.H.Welsch
17. 3D GRE Sequence with Two Different Flip Angele Excitation Pulses for Zonal T1- Mapping of Articular Cartilage at 3T: One-Year Follow-Up in Patients After Matrix-Associated Autologous Chondrocyte Transplantation (MACT) of the Kniee Joint.

K.Pinker, P.Szomolanyi, G.H.Welsch, T.C.Mamisch, St.Marlovits, **S.Trattnig**

18. High- Resolution Morphological and Biochemical Imaging of Articular Cartilage of the Ankle Joint at 3.0 T Using a New Dedicated Phased Array Coil: In Vivo Reproducibility Study

G.H.Welsch, T.C.Mamisch, M.Weber, S.Nemec, K.Bohndorf, **S.Trattnig**

ISMRM 1 - 7 Mai 2008 Toronto

19. Three-dimensional delayed gadolinium enhanced MRI of cartilage (dGEMRIC) at 3 Tesla for in vivo differentiation of normal hyaline cartilage and reparative tissue in patients after different cartilage repair procedures: Preliminary results

S. Trattnig, T.C. Mamisch, K. Pinker, P. Szomolanyi, S. Marlovits, S.

Kutscha-Lissberg, G. Welsch

20. 3D GRE sequence with two different flip angle excitation pulses for zonal T1- mapping of articular cartilage at 3T: One-year follow-up in patients after matrix-associated autologous chondrocyte transplantation (MACT) of the knee joint

K. Pinker, P. Szomolanyi, G. Welsch, T.C. Mamisch, S. Marlovits, **S. Trattnig**

21. T2-mapping versus diffusion-weighted imaging for the assessment of cartilage repair tissue after matrix-associated autologous chondrocyte transplantation at 3.0 T

C.M. Plank, K. Friedrich, G. Langs, G.H. Welsch, T.C. Mamisch, **S. Trattnig**

22. In vitro human cartilage compression study at 3 Tesla using unique compression device

V. Juras, Z. Majdisova, M. Bittsansky, **S. Trattnig**

23. Quantification of intracerebral GABA by 1H-MRS: How reproducible are results?

W. Bogner, S. Gruber, A. Stadlbauer, M. Doelken, **S. Trattnig**, A. Doerfler, H. Stefan, T. Hammen

24. Diffusion-weighted imaging of knee cartilage at 3.0T: Follow up of patients after matrix-associated autologous chondrocyte transplantation

K.M. Friedrich, C. Plank, G. Welsch, G. Langs, E. Salomonowitz, **S. Trattnig**

ECR 2008, 7.-11.März 2008 Vienna

25. Sample-Specific Computational Model of Articular Cartilage based on MRI, Histology, Computer Vision and Mechanical Testing

D. Pierce, W. Trobin, H. Bischof, **S. Trattnig**, G A. Holzapfel

8th World Congress on Computational Mechanics, 30.6-4.7. 2008 Venedig, Italien

Aktivitäten 2007

Siegfried Trattnig

<i>Projects:</i>	6 (1-EU, 1 BRIDGE des FFG, 2- OENB, 2 FWF)
<i>Publications:</i>	10 Top 9 Standard 0 Sonstige
<i>Presentations:</i>	12 invited, 17 (oral presentation), 5 Posterpräsentationen,
<i>Reviews</i>	for dissertations and diploma thesis: 1 for habilitations 2
<i>Care of PhD programs</i>	2
<i>Review activities:</i>	for 12 Journals 3 scientific fonds

Publications:

- 1 Safety aspects in high-field magnetic resonance imaging.]
Mühlenweg M, Schaefers G, **Trattnig S**.
Radiologe. 2007 Dec 6;
- 2 Cerebral cavernous malformations: congruency of histopathological features with the current clinical definition.
Frischer JM, Pipp I, Stavrou I, **Trattnig S**, Hainfellner JA, Knosp E.
J Neurol Neurosurg Psychiatry. 2007 Nov 6;
- 3 Optimized spectrally selective steady-state free precession sequences for cartilage imaging at ultra-high fields.

- O Bieri, TC Mamisch, **S Trattnig**, O Kraff, ME Ladd, K Scheffler.
MAGMA. 2007 Nov 21
- 4 Steady-state diffusion imaging for MR in-vivo evaluation of reparative cartilage after matrix-associated autologous chondrocyte transplantation at 3 tesla-Preliminary results.
TC Mamisch, MI Menzel, GH Welsch, B Bittersohl, E Salomonowitz, P Szomolanyi, J Kordelle, S Marlovits, **S Trattnig**.
Eur J Radiol. 2007 Oct 29;
 - 5 Anatomical structures to provide passive motility of peripheral nerve trunks and fascicles.
H Millesi, T Hausner, R Schmidhammer, **S Trattnig**, M Tschabitscher.
Acta Neurochir Suppl. 2007;100:133-5.
 - 6 Cerebral cavernous malformations: congruency of histopathological features with the current clinical definition.
JM Frischer, I Pipp, I Stavrou, **S Trattnig**, JA Hainfellner, E Knosp.
J Neurol Neurosurg Psychiatry. 2007 Nov 6;
 - 7 Three-dimensional delayed Gadolinium enhanced MRI of cartilage (dGEMRIC) for in vivo evaluation of reparative cartilage after matrix-associated autologous chondrocyte transplantation at 3.0 Tesla – preliminary results.
S Trattnig, S Marlovits, S Gebetsroither, P Szomolanyi, GH Welsch, E Salomonowitz, A Watanabe, M Deimling, TC Mamisch.
J Magn Reson Imaging. 2007 Oct;26(4):974-82.
 - 8 Cystic lesion of the groin due to metallosis: a rare long-term complication of metal-on-metal total hip arthroplasty.
Gruber FW, Bock A, **Trattnig S**, Lintner F, Ritschl P.
J Arthroplasty. 2007 Sep;22(6):923-7. Epub 2007 Apr 20.
 - 9 High-field, high-resolution, susceptibility-weighted magnetic resonance imaging: improved image quality by addition of contrast agent and higher field strength in patients with brain tumors.
K Pinker, IM Noebauer-Huhmann, I Stavrou, R Hoeffberger, P Szomolanyi, M Weber, A Stadlbauer, G Grabner, E Knosp, **S Trattnig**.
Neuroradiology. 2007 Sep 18;
 - 10 Hypertrophy of the breast: a problem of beauty or health?
J Womens Health
H Benditte-Klepetko, V Leisser, T Paternostro-Sluga, M Rakos, **S Trattnig**, T Helbich, M Schemper, M.Deutinger
(Larchmt). 2007 Sep;16(7):1062-9.

- 11 High-Resolution Contrast-Enhanced, Susceptibility-Weighted MR Imaging at 3T in Patients with Brain Tumors: Correlation with Positron-Emission Tomography and Histopathologic Findings.
K Pinker , IM Noebauer-Huhmann , I Stavrou , R Hoeffberger , P Szomolanyi , G Karanikas , M Weber , A Stadlbauer , E Knosp , K Friedrich , **S Trattig** .
AJNR Am J Neuroradiol. 2007 Aug;28(7):1280-6.
- 12 The prevalence of lumbar facet joint edema in patients with low back pain.
KM Friedrich , S Nemec , P Peloschek , K Pinker , M Weber , **S Trattig** .
Skeletal Radiol. 2007 Aug;36(8):755-60. Epub 2007 Apr 5.
- 13 Extended-duration thromboprophylaxis with enoxaparin after arthroscopic surgery of the anterior cruciate ligament: a prospective, randomized, placebo-controlled study.
S Marlovits , G Striessnig , R Schuster , R Stocker , M Luxl , **S Trattig** , V Vécsei .
Arthroscopy. 2007 Jul;23(7):696-702.
- 14 Comparison of fMRI coregistration results between human experts and software solutions in patients and healthy subjects..
A Gartus, A Geissler, T Foki, AR Tahamtan, G Pahs, M Barth, K Pinker, **S Trattig**, R Beisteiner.
Eur Radiol. 2007 Jun;17(6):1634-43. Epub 2006 Oct 12
- 15 Quantitative T2 mapping of matrix-associated autologous chondrocyte transplantation at 3 Tesla: an in vivo cross-sectional study.
S Trattig, TC Mamisch, GH Welsch, C Glaser, P Szomolanyi, S Gebetsroither, O Stastny, W Horger, S Millington, S Marlovits
Invest Radiol. 2007; Jun.42(6):442-8.
- 16 Improved preoperative evaluation of cerebral cavernomas by high-field, high-resolution susceptibility-weighted magnetic resonance imaging at 3 Tesla: comparison with standard (1.5 T) magnetic resonance imaging and correlation with histopathological findings--preliminary results.
K Pinker , I Stavrou , P Szomolanyi, R Hoeffberger , M Weber , A Stadlbauer , IM Noebauer-Huhmann , E Knosp , **S Trattig** .
Invest Radiol. 2007 Jun;42(6):346-51.
- 17 Demonstration of the articular cartilage of the canine ulnar trochlear notch using high-field magnetic resonance imaging.
A Probst , F Modler , W Künzel , V Mlynarik , **S Trattig** .
Vet J. 2007 May 18;

- 18 Bone erosions and bone marrow edema as defined by magnetic resonance imaging reflect true bone marrow inflammation in rheumatoid arthritis.
Jimenez-Boj E, Nöbauer-Huhmann I, Hanslik-Schnabel B, Dorotka R, Wanivenhaus AH, F Kainberger , **S Trattnig** , R Axmann , W Tsuji , S Hermann , J Smolen , G Schett .
Arthritis Rheum. 2007 Apr;56(4):1118-24
- 19 Quantitative and topographical evaluation of ankle articular cartilage using high resolution MRI.
SA Millington, B Li, J Tang, **S Trattnig**, JR Crandall, SR Hurwitz, ST Acton.
J Orthop Res. 2007 Feb;25(2):143-51.
- 20 High-field magnetic resonance imaging of meniscoids in the zygapophyseal joints of the human cervical spine.
F KM riedrich , **S Trattnig** , SA Millington , M Friedrich , K Groschmidt , ML Pretterklieber
Spine. 2007 Jan 15;32(2):244-8.
- 21 MR imaging of osteochondral grafts and autologous chondrocyte implantation
S Trattnig, SA Millington, P Szomolanyi, S Marlovits.
Eur Radiol. 2007 Jan;17(1):103-18. Epub 2006 Jun 27. Review.

Publications in press (Top Journals)

- 22 Cerebral cavernous malformations:spectrum of histopathology in a large series of neuroradiologically verified lesion
J.M.Fischer, I.Pipp, I.Stavrou, **S.Trattnig**, J.A.Hainfellner, E.Knosp
Journal of Neurology (in press)
- 23 Cartilage T2 assessment at 3 Tesla: In vivo differentiation of normal hyalinecartilage and reparative tissue in patients after different cartilage repairprocedures – a preliminary study
G.H.Welsch, T C Mamisch, S Domayer, K Dorotka, F Kutscha-Lissberg, S Marlovits, L White, **S.Trattnig**
Radiology 2007 (in press)

Guest editor

Special issue: High-field (3 T and above) MR Imaging of the Musculoskeletal System
Seminars in Musculoskeletal Radiology
Sonderheft: Strahlenschutz und MR-Sicherheit "Der Radiologe"

Project approvals

submitted:

- **Uni-Infrastrukturprogramm IV**
- **Vienna Spots of Excellence des Wiener Wissenschafts-und Technologie-Fonds (WWTF)**
- **FWF-TRP-Projekt:
Biochemical Imaging of intervertebral disc at 3T**

running projects

Uni-Infrastrukturprogramm II des BM für Bildung, Wissenschaft und Kultur

Grossgeräte-Antrag für ein 7 Tesla Ganzkörper-MRT eingereicht
von Trattnig S und Moser E vom Kompetenzzentrum für Hochfeld-MR
bewilligt im Juli 2005
Bewilligte Summe: **4 Mio €** aufgeteilt auf 3 Jahre

Jubiläumsfondprojekt Nr.11954

Verbesserte präoperative Evaluation cerebraler kavernöser Gefäßmalformation mittels
hochauflöser KM-verstärkter SWI-Hochfeld (3T) MRT-Vgl. mit Standard MRT und
histopathologischen Befunden
Bewilligt am 29.6.2006
Bewilligte Summe:**41.000€**

BRIDGE-Programm des FFG

Sequenztechnik-Entwicklung und Optimierung am Hochfeld-MR (3+7 Telsa)
Bewilligt am 28.6.2006
bewilligte Summe: **340.000 €**

Jubiläumsfondprojekt Nr.11744

Improved pre-operative planning for autologous chondrocyte implatation surgery throught automated 3D image
analysis and reconstruction of MR images
bewilligt Dez.2005
bewilligte Summe: **45.000,-**

FWF-Projekt P18110-B15

Visualization of Biomechanical properties of articular cartilage by MR

bewilligt am 21.06.2005

bewilligte Summe: **408.000 €**

FWF-TRP-Projekt L243-B15

Monitoring of autologous cartilage implantation by 3T MR

bewilligt am 12.10.2005

bewilligte Summe: **286.000€**

Präsentationen:

1. T2*-mapping for Cartilage Imaging: Comparison to T2 in Healthy and Affected Cartilage
T Huges, G H Welsch, **S Trattnig**, C Boesch, T C Mamisch,
2. Cartilage T2 Assessment at 3 Tesla: In Vivo Differentiation of Normal Hyaline Cartilage and Reparative Tissue in Patients after Different Cartilage Repair Procedures: A Preliminary Study
G H Welsch, T C Mamisch, , S Domayer, , S Marlovits, ,
L M White , **S Trattnig**,
3. T2-mapping versus Diffusion-weighted Imaging for the Assessment of Cartilage Repair Tissue after Matrix-Associated Autologous Chondrocyte Transplantation at 3.0 T
C.M Plank, , K M Friedrich, **S Trattnig**, G Langs, ,
G H Welsch, , T C Marmisch
4. Three Dimensional GRE-sequence with Two Different Flip Angle Excitation Pulses for Zonal T1-mapping of Articular Cartilage at 3 T: One Year Follow-up in Patients after Matrix-associated Autologous Chondrocyte Transplantation (MACHT) of the Knee Joint
K Pinker, P Szomolanyi, G H Welsch., T C Mamisch,
S Marlovits, **S Trattnig**
5. Three-dimensional Delayed Gadolinium-enhanced MRI of Cartilage (dGEMRIC)

at 3 Tesla for in Vivo Differentiation of Normal Hyaline Cartilage and
Reparative Tissue in Patients after Different Cartilage Repair Procedures
S Trattig, T C Mamisch, P Szomolanyi, K Pinker,
S Marlovits, G.H Welsch.,

6. Simultaneous Acquisition of Morphological and Quantitative T2 Images: A Feasibility Study in Patients with Osteoarthritis and after Different Cartilage Repair Procedures in the Knee Using a Double Echo Steady State (DESS) Approach at 3 Tesla
G.H Welsch., T C Mamisch., M Deimling, T Hughes, **S Trattig**
RSNA 26.-28.11.2007 Chicago
7. Simultaneous acquisition of morphological images and functional T2 values: A Feasibility study in patients after cartilage repair in the knee using a double echo steady state (DESS) approach at 3 Tesla
G. H. Welsch T. Mamisch, S. Marlovits, S. Domayer, T. Hughes,
M. Deimling, **S. Trattig**
8. T2 Mapping in the knee after microfracture at 3.0T: Correlation of global T2 values and clinical outcome
S. Domayer, F. Kutscha-Lissberg, G. Welsch, R. Dorotka, **S. Trattig**;
9. In vivo differentiation of normal hyaline cartilage and reparative tissue in patients after different cartilage repair procedures-cartilage T2 assessment at 3 Tesla
G. H. Welsch, T. C. Mamisch, S. Domayer, R. Dorotka, F. Kutscha-Lissberg,
S. Marlovits, L. M. White, **S. Trattig**
10. The validity of T2 Mapping for the follow up after microfracturing – is there a correlation between clinical and MRI findings?
Kutscha-Lissberg F, Domayer S, **Trattig S**, Vécsei V, Gäbler Ch
September 1, SICOT 2007 - Adult knee disorders
OARSI Meeting 2007, Fort Lauderdale, Florida
11. High Resolution MRI of Matrix induced autologous chondrocyte implantation (MACI®) after 24 months
S. Marlovits, G. Vekszler, V. Zimmermann, **S. Trattig**;
12. Simultaneous acquisition of morphology and quantitative T2 values in patients after microfracture in the knee using a Double Echo Steady State (DESS) approach at 3 Tesla
G.H. Welsch, T.C. Mamisch, S. Marlovits, T. Hughes, M. Deimling,
S. Trattig

13. In vivo differentiation of reparative tissue in patients after different cartilage repair procedures by means of cartilage T2 assessment at 3 Tesla MRI
G.H. Welsch, T.C. Mamisch, S. Domayer, R. Dorotka, F. Kutscha-Lissberg, S. Marlovits, L.M. White, **S. Trattnig**
ICRS 2007 / 28.9.-2.10.2007 / Warsaw / PL
14. High-Resolution Contrast-Enhanced, Susceptibility-Weighted Magnetic Resonance Imaging at 3 in Patients with Brain Tumors [PDF]
K Pinker, ; I Stavrou, R Hoeffberger, ; P Szomolanyi, ; M Weber, ; A Stadlbauer, ; E Knosp, ; **S Trattnig,**
15. Improved Preoperative Evaluation of Cerebral Cavernomas by High-Field, High-Resolution Susceptibility-Weighted Magnetic Resonance Imaging at 3 Tesla
K Pinker, ; I. M Noebauer-Huhmann, ; I Stavrou,.; R Hoeffberger,.; P.Szomolanyi, ; M Weber,.; G. M Karanikas, ; A Stadlbauer, ; E Knosp, ;
S Trattnig,
16. In-Vivo Evaluation of Cartilage Repair Using Steady-State Diffusion Weighted Imaging
Mamisch, TI Ch; Menzel, M. I; G. H Welsch,.; B Bittersohl,.; P Szomolanyi,.; St Marlovits,.; **S Trattnig,**
17. Modulation of Pi Flux by Short Term Exercise
M Chmelik,.; G Kacerovsky,.; R Pokan,.; M Farukuoye,.; St Gruber,.;
J Szendroedi,.; A. I Schmid,.; E Moser,.; **S Trattnig,;** G Smekal,.; M Roden,.;
18. Quantitative T2 Mapping of Matrix-Associated Autologous Chondrocyte Transplantation at 3 Tesla: An In Vivo Cross-Sectional Study
S Trattnig, ; Ch T Mamisch, ; C Glaser, ; P Szomolanyi, ; S Gebetsroither, ; O Stastny, ; W Horger, ; St Marlovits,
19. Simultaneous Acquisition of Morphological Images and Functional T2 Values: A Feasibility Study in Patients After Cartilage Repair in the Knee Using a Double Echo Steady State (DESS) Approach at 3 Tesla
G H Welsch, ; T C Mamisch, ; T Hughes, ; K Friedrich, ; St Marlovits, ;
M Deimling, ; **S.Trattnig,**
20. T2-Star Relaxation as a Means to Differentiate Cartilage Repair Tissue After Microfracturing Therapy
T Hughes,.; G. H Welsch,.; **S Trattnig,;** L Brandi, ; St Domayer, ; T C Mamisch,.
21. Three-Dimensional Delayed Gadolinium Enhanced MRI of Cartilage (dGEMRIC) for In Vivo Evaluation of Reparative Cartilage After Matrix-Associated Autologous Chondrocyte

Transplantation at 3.0 Tesla – Preliminary Results

S Trattnig, ; St Marlovits, ; S Gebetsroither, ; P.Szomolanyi, A Watanabe, ;
O Stastny, ; M Deimling, ; Ch T Mamisch,.

Joint Annual Meeting ISMRM-ESMRMB Berlin, 19.5.-25.5.2007

22. Cartilage Imaging: Fundamental evaluation of modern high-resolution isotropic 3D MR sequences at 3T
K.M.Friedrich, G.Reiter, B.Kaiser, S.Millington, M.Deimling,
E.Salomonowitz, **S.Trattnig**
23. Quantitative T2 mapping of matrix-associated autologous chondrocyte transplantation: An in vivo follow-up study.
G.H.Welsch, T.C.Mamisch, E.Salomonowitz, W.Horger, P.Szomolanyi, S.Gebetsroither,
S.Marlovits, **S.Trattnig**
24. Matrix-based autologous chondrocyte implantation for cartilage repair of the knee: Correlation of subchondral edema with the filling of the defect by repair tissue after 2 years
C.M.Plank, M.Philipp, T.Mang, K.Pinker, S.Marlovits, C.J.Herold, **S.Trattnig**
25. Steady-state diffusion-weighted imaging (SS-DWI) for assessment of cartilage repair tissue: Cross-sectional study following matrix-associated autologous chondrocyte transplantation (MACT)
T.C.Mamisch, M.I.Menzel, S.Marlovits, B.Bittersohl, P.Szomolanyi,
O.Stastny, **S.Trattnig**
- 24 dGEMRIC for in vivo evaluation of reparative cartilage after matrix-associated autologous chondrocyte transplantation at 3.0 Tesla.
S.Trattnig, M.Deimling, P.Szomolanyi, S.Gebetsroither, K.Pinker, S.Domayer, O.Stastny,
S.Marlovits, T.C.Mamisch,
- 25 Proton MR spectroscopic imaging in border zone of gliomas: Correlation of metabolic and histological changes at low tumor infiltration (B-663)
K. Pinker, O. Ganslandt, M. Buchfelder, **S. Trattnig**, A. Stadlbauer
ECR 09.03.-13.03.2007

Presentation (invited talks)

- MR Sicherheit

MR Anwendertreffen 2007
Philips Medizinische Systeme
Hotel Modul Wien / 9/10.11.2007

- Recent advances in cartilage MR Imaging
High field (3 and 7 Tesla) MR Imaging of Musculoskeletal System
Musculoskeletal MRI Seminar/ 25.10.2007 Nicosia, Zypern
- Moderne Knorpeldiagnostik in der MRT- Von der Morphologie zur
Biochemie Berufsverband der Fachärzte für Orthopädie
17.10.07 Adelsried, Deutschland
- International Cartilage Repair Society
Workshop / MRI of cartilage repair
ICRS 30.09.2007 Warsaw / PL
- Advanced techniques at 3 Tesla in CNS
Application and Future Improvement at 7 Tesla
Advanced Imaging Multimodality Seminars 7-8 Juli 2007, Tokio, Japan
- Wissenschaftliches Symposium „Knorpel und Arthrose“
MR Bildgebung bei Arthrose
Mittwoch 22-24.Juni 2007
- „Hochfeld MRT (3Tesla) unter besonderer Berücksichtigung von
MR-Sicherheitsaspekten“
VBDO-Tage und 13.MRCT Symposium.Pörschach 07-10.Juni 2007
- MRT und MDCT Workshop, CT-und MR-Angiographie Update
3T MRT: Klinische Applikationen
Stegersbach 02.Juni 2007
- Do technologie drive the future?
Satellite Symposium ISMRM-ESMRMB 2007
Guerbet Berlin 22.05.2007
- 3T MR: von der Forschung in die klinische Routine
MRT mit 3T: Magie, Prestige oder Progress? Update 2007
S Trattinig, M Thurnher., W Schima., Ch Herold.
Hotel Imperial, Wien 12.05.07

- International Opening Symposium
Cartilage imaging: - Correlation with with function and molecular status
Cluster for Tissue Regeneration
Lorenz Böhler Trauma Center 19.04.2007 Wien,
- CT/MR of articular cartilage
Refresher-Kurs: B. Osteochondral autografts
ECR 09.03.-13.03.2007
- Hochfeld-MR:3, 4 und 7 Tesla, Bildgebung und neue Techniken
S Trattnig., P Peloschek, Ch Krestan.
Osteoradiologie-Kongress Wiener Hofburg, 03.03.2007 Wien
- Bildgebende Diagnostik beim Kopf-Nacken-Schultergürtelschmerz
2.CEOPS Schmerzkongress, Technische Museum 23-24.2.07
- 3T-MRT- Application im Muskel-Skelett-System
12th International MRI Symposium Garmisch-Partenkirchen 30.-31.1.2007

Scientific-poster

1. **7thICRS 2007 World Congress of the International Cartilage Repair Society**
High resolution multiparametric MR compression study of human articular cartilage at 3 Tesla using unique compression device
V. Juras, M. Bittsansky, Z. Majdisova, **S. Trattnig**; Vienna/AT
2. Clinical and radiological outcome of Matrix induced autologous chondrocyte implantation (MACI®) after 24 months
S. Marlovits, G. Vekszler, C. Resinger, V. Zimmermann,
S. Trattnig;
3. Correlation of MRI to clinical outcome scores after autologous chondrocyte transplantation: MOCART (Magnetic Resonance Observation of CArtilage Repair Tissue) grading and scoring system
S. Marlovits, **S. Trattnig**;
4. Quantitative T2 mapping of matrix-associated autologous chondrocyte transplantation at 3T: an in vivo cross-sectional study
S. Trattnig, T.C. Mamisch, C. Glaser, P. Szomolanyi, S. Gebetsroither, O. Stastny, W. Horger,

S. Marlovits;

5. Postoperative adherence of matrix associated autologous chondrocyte transplantation of a three-dimensional collagen gel (CaReS®)

S. Marlovits, P. Zeller, V. Zimmermann, A. Rozenits,

S. Trattnig;

ICRS Symposium 29. September 2007 / Warsaw, PL

Organisation & Chairmanship

1. Nephrogene Systemische Fibrose – Symposium

S.Trattnig

Goldenes Kreuz Privatklinik / 15.09.2007

2. MRT und MDCT Workshop, CT-und MR-Angiographie Update

3T MRT: Klinische Applikationen

S Trattnig., M Thurnher., W Schima.

Stegersbach 02.Juni 2007

3. Bildgebung – neue Techniken

S Trattnig., H.Imhof.

Osteoradiologie-Kongress Wiener Hofburg, 03.03.2007 Wien

4. ICRS Basic Surgical Skills Course Warsaw 2007

Faculty Board: S.Trattnig