Professional publications, studies
Articles in specialized media
Published scientific lectures and posters
Specialised book publications
Expertise

Status: February 2016

2016:

1) Therapeutic Application of Magnetic Resonance in Osteoporosis
Kullich, W.¹, Lukenda, I.², Stritzinger, B. ¹, Overbeck, J. ², Krpan, D.¹, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Ludwig Boltzmann Department for Rehabilitation, Saalfelden, Austria, Poliklinika K-CENTAR, Zagreb, Croatia, Private Consultant Surgeon, Deggendorf, Germany; published in: Ber. nat.-med. Ver. Salzburg, Vol. 18, p. 7-17, Salzburg 2016.
Language: German

2015:

2) Effects of Magnetic Resonance Treatment on the dynamics of liver regeneration
Inaugural Dissertation for Gaining the ‘Doctor Medicinae’ from the Medical Faculty of the Westphalian Wilhelms University of Münster. Budny, N., University Hospital of Münster, Department of General and Visceral Surgery, Surgical Research Department, Münster, Germany; October 2015.

3) Modulation of NF-κB activity by the therapeutic Nuclear Magnetic Resonance (NMR) to explain pain reduction in patients with osteoarthritis
B. Steinecker-Frohnwieser¹, W. Kullich¹, A. Mann², B. Stritzinger³, H. G. Kress², L. Weigl¹,
¹Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, LBI for Rehabilitation of Internal Diseases Saalfelden, Austria, ²Department of Special Anaesthesia and Pain Therapy, Medical University Vienna, Austria; poster presentation at the International Pain Congress of the European Pain Federation EFIC, Vienna, Austria, 2nd-5th September 2015.

4) Non-pharmacological treatment of osteoporosis with Nuclear Magnetic Resonance Therapy (NMR-Therapy)
Dalibor Krpan¹, Barbara Stritzinger², Ivan Lukenda¹, Joakim Overbeck¹, Werner Kullich¹, Poliklinika K-CENTAR, Zagreb, Croatia, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Department for Rehabilitation, Saalfelden, Austria, Private Consultant Surgeon, Deggendorf, Germany; published in: PERIODICUM BIOLOGORUM VOL. 117, No. 1, 161–165, 2015.

5) A new concept of integrated holistic approach in treatment of chronic musculoskeletal diseases The “BAR” method

These publications are not available in digital form.
Prof. Dr. sc. Dalibor Krpan, Polyclinic K-CENTAR, Zagreb, Croatia; published in: PERIODICUM BIOLOGORUM VOL. 117, No 1, 119–124, 2015.

6) **Effects of Therapeutic-NMR (MBST-Nuclear Magnetic Resonance) on the Circadian Clock and the Hypoxic Signaling Pathway in Zebrafish Cells**

R. Oliva, Master thesis for the acquisition of the academic degree Master of Science (MSc), Faculty of Biology, Department of Ecophysiology, Leopold Franzens University of Innsbruck, Innsbruck, Austria.

**2014:**

1) **Nuclear magnetic resonance treatment (MBST®) of clinical symptoms caused by osteoarthritis: a double-blinded placebo-controlled study in dogs**


2) **The Influence of Nuclear Magnetic Resonance Therapy (NMRT) and Interleukin IL1-β Stimulation on Cal 78 Chondrosarcoma Cells and C28/I2 Chondrocytes**

B. Steinecker-Frohnwieser, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; scientific lecture at the Scientific Symposium: Microbiome Research / Personalized Medicine, Graz, Austria, 17th – 18th July 2014.*

3) **MBST - Nuclear Magnetic Resonance Therapy, the new opportunity in the treatment of chronic skeleton diseases and sport injuries**

D. Krpan, Policlinica K-Centar, Zagreb, Croatia; lecture at the Russian Slovenian scientific meeting, Terme Olimia, Slovenia, June 2014.

4) **New active principle: Therapy with nuclear magnetic resonance**

W. Kullich; Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; scientific lecture at the “Special pain therapy” course, Pain diploma of the Austrian Medical Chamber, Leogang, Austria, 19th June 2014.* Language: German

5) **The Influence of Nuclear Magnetic Resonance Therapy (NMRT) and Interleukin IL1-β Stimulation on Cal 78 Chondrosarcoma Cells and C28/I2 Chondrocytes**

B. Steinecker-Frohnwieser1, L. Weigl1, G. Weberhofer1, W. Kullich1, H.G. Kress2; 1Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; 2Department of Special Anaesthesia and Pain Management, Medical University Vienna, Austria; published in: J Orthopedics Rheumatology, 2014; 1(3):9.

6) **Application of Nuclear Magnetic Resonance Therapy as treatment of degenerative diseases of locomotor system**

I. Mařík, A. Maříková, R. Myslivec; Ambulantní centrum pro vady pohybového aparátu s.r.o, Prague, Czech Republic; scientific lecture at the 19th Kubat’s Podiatric day, 08th or March 2014, Prague. Language: Czech
7) **Top 100 2014: Innovation Aces: Ranga Yogeshwar introduces Germany’s innovation elite**

2013:

1) **Clinical Efficiency of Nuclear Magnetic Resonance Therapy in Osteoarthritis**
W. Kullich, B. Stritzinger, B. Steinecker, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; poster presentation at the First LBG Meeting for Health Science, Vienna, Austria, 2nd December 2013.*

2) **Long-term efficacy of Nuclear Magnetic Resonance Therapy on Osteoarthritis proved by multicentric data of more than 4,500 patients**
W. Kullich, B. Stritzinger, B. Steinecker, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden; Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; Poster presentation at the first LBG meeting for Health Sciences 2013, 2nd December 2013, Vienna. **Language: German**

3) **Long-term efficacy of Nuclear Magnetic Resonance Therapy on osteoarthritis proven by multicentric data of more than 4,500 patients**
B. Stritzinger, B. Steinecker, W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden; Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; published in: Journal für Mineralstoffwechsel 2013; 20(4):159. **Language: German**

4) **Intracellular Calcium Is Influenced by Nuclear Magnetic Resonance Therapy (NMRT) in Cal-78 Chondrosarcoma Cells**
B. Steinecker-Frohnwieser¹, L. G. Weigel², H. G. Kress², W. Kullich¹,²,³, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden; Department of Special Anesthesia and Pain Management, Medical University of Vienna; Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; published in: Journal für Mineralstoffwechsel, Volume 20 2013, Number 4, pp. 161-162.

5) **Innovative medical technology – Made in Germany**
A. Muntermann, A. Oelsner, MedTec Medizintechnik GmbH, Wetzlar, Germany; scientific lecture at the Dr. Sulaiman Al Habib Hospital, Riyadh, Saudi Arabia, 26th November 2013.*

6) **MBST-Nuclear Magnetic Resonance Therapy – innovative medical technology made in Germany**
A. Muntermann, A. Oelsner, MedTec Medizintechnik GmbH, Wetzlar, Germany; scientific lecture at the National Guard Hospital, Riyadh, Saudi Arabia, 27th November 2013.*

7) **Innovative medical technology – Made in Germany**
A. Muntermann, A. Oelsner, MedTec Medizintechnik GmbH, Wetzlar, Germany; scientific lecture at the Saad Specialist Hospital, Dammam, Saudi Arabia, 28th November 2013.*

8) **MBST - Nuclear Magnetic Resonance Therapy, the new opportunity in the treatment of chronic skeleton diseases and sport injuries**
D. Krpan, Policlinica K-Centar, Zagreb, Croatia; lecture at the scientific meeting, Bucharest, Romania, September 2013.
9) **NUCLEAR MAGNETIC RESONANCE THERAPY. A SHORT ANALYSIS OF THE SCIENTIFIC STUDIES FOCUSED ON THE SPINE**

10) **Long-term reduction of pain in different types of Osteoarthritis after the treatment with nuclear magnetic resonance**
W. Kullich, B. Steinecker, J. Overbeck, Ludwig Boltzmann Cluster for Rheumatology, Balneology, and Rehabilitation, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden, Austria; private consultant surgeon, Deggendorf, Germany; published in: Schmerznachrichten 4 / 2013, pp. 20-23. Language: German

11) **MBST – Nuclear Magnetic Resonance Therapy on Gonarthrosis, Long-Term Effects**
W. van Laack, University of Applied Science Aachen, Germany; abstract in the congress catalogue of the “Safety and Security”, Innovation Alliance of North-Rhine Westphalia Universities, Brussels, Belgium, 18th June 2013.

12) **MBST - Analysis of the scientific studies and its relevance to the daily application**
J. G. Overbeck, Private Consultant, Deggendorf, Germany; scientific lecture at the Park Hotel, New Delhi, India, 7th June 2013.

13) **MBST – Nuclear Magnetic Resonance Therapy, Analysis of the Scientific Studies and its Relevance to the Daily Application**
J. G. Overbeck, Private Consultant, Deggendorf, Germany; scientific lecture at the East Delhi Gynae Forum, Delhi, India, 7th June 2013.

14) **Magnetic resonance therapy**
J. G. Overbeck, Private Consultant, Deggendorf; scientific lecture at the 32nd Annual Conference of North Zone Chapter of The Indian Orthopaedic Association, Srinagar, Indien, 1st June 2013.*

15) **Therapy with Magnetic Resonance – Sustainable Improvement of Osteoarthritis Pain (Multicentric Observational Study on 4.518 patients)**

16) **Therapy with Magnetic Resonance – Sustainable Improvement of Osteoarthritis Pain (Multicentric Observational Study on 4.518 patients)**
W. Kullich, B. Steinecker, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden, Austria, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation; scientific poster presentation at the 21st Scientific Conference of the Austrian Pain Society, winner of the 1st prize for the poster presentation, Klagenfurth, Austria, 9th – 11th May 2013. Language: German

17) **Multicentric data from more than 4,500 patients with degenerative rheumatic diseases proof sustainable effect of Magnetic Resonance Therapy**
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; scientific poster presentation at the 61st Annual Conference of the South German Orthopaedists and Orthopaedic Surgeons, 1st – 4th May 2013, Baden-Baden, Germany, poster no. p32. Language: German

* These publications are not available in digital form.
18) Multicentric data from more than 4,500 patients with degenerative rheumatic diseases prove sustainable effect of Magnetic Resonance Therapy


19) Intracellular Calcium is influenced by the Nuclear Magnetic Resonance Therapy in Cal-78 chondrosarcoma cells

B. Steinecker-Frohnwieser, L. Weigl, W. Kullich; Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; Department of Special Anesthesia and Pain Management, Medical University of Vienna, Austria; published in: Bone – Abstracts (ECTS 2013, Lisbon), 2013; 1:248.

20) Intracellular Calcium is influenced by the Nuclear Magnetic Resonance Therapy in Cal-78 chondrosarcoma cells

B. Steinecker-Frohnwieser, L. Weigl, W. Kullich; Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; Department of Special Anesthesia and Pain Management, Medical University of Vienna, Austria; scientific lecture at the ECTS 2013, Lisbon, 18th-21st May 2013.*

21) Functional ability of skeleton and how we can improve it by MBST

D. Krpan, Policlinica K-Centar, Zagreb, Croatia; Croatian national congress of osteoporosis, Opatia, Croatia, April 2013.* Language: Croatian

22) (N)MRT – Nuclear Magnetic Resonance Therapy, Analysis of the Scientific Studies and its Relevance to Sport Injuries and its Ramifications

J. G. Overbeck, Private Consultant, Deggendorf, Germany; scientific lecture at the Connective Tissues in Sports Medicine, University of Ulm, Germany, 12th – 14th April 2013.*

23) One-year-survey with multicenter data of more than 4,500 patients with degenerative rheumatic diseases treated with therapeutic nuclear magnetic resonance


2012:

1) MBST - Nuclear Magnetic Resonance Therapy, the new opportunity in the treatment of chronic skeleton diseases and sport injuries


2) Guide to naturopathic treatment for the doctors practice

Published by: André-Michael Beer, Martin Adler, Munich 2012, p. 296. Language: German
2011:

1) **Analysis of the Long-term Effect of the MBST® Nuclear Magnetic Resonance Therapy on Gonarthrosis**
   W. van Laack, G. Froning, Institute for Bioengineering (IfB), Laborator of Biomechanics, FH Aachen, Campus Juelicth, Orthopedic Practice and Center for ambulant arthroscopic surgery, Herzogenrath, Germany; published in: Orthopaedic Practice 47, 11, 2011, pp. 536-543.

2) **Impact of Magnetic Resonance Therapy on Sickness Absence of Patients with Nerve Root Irritation Following a Lumbar Disc Problem**

3) **MBST – The new treatment of osteoarthritis and osteoporosis**
   D. Krpan, Policlinica K-Centar, Zagreb, Croatia; lecture at the ISCEM 2011 and the 5th Croatian congress of endocrinology with international participation, Pula, Croatia, October 2011.* Language: Croatian

4) **30 years of Boltzmann Institute and 30th conference for rheumatism in Saalfelden**
   W. Kullich, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Institute for Rehabilitation of Internal Diseases, Saalfelden, Austria; published in: Jatros Orthopädie, 5/2011, p. 68. Language: German

5) **Therapeutic use of Nuclear Magnetic Resonance in different forms of osteoarthritis**
   W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; scientific lecture at the 30th Rheumatologic Advanced Training Conference, Saalfelden, Austria, 17th-18th June 2011.* Language: German

6) **Intracellular Ca²⁺-Regulation as potential contact point of the NMRT**
   L. Weigl, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; scientific lecture at the 30th Rheumatologic Advanced Training Conference, Saalfelden, Austria, 17th-18th June 2011.* Language: German

7) **Influence of Nuclear Magnetic Resonance on osteoarthritis-related factors**
   B. Steinecker-Frohnwieser, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; scientific lecture at the 30th Rheumatologic Advanced Training Conference, Saalfelden, Austria, 17th-18th June 2011.* Language: German

8) **MBST - NUCLEAR MAGNETIC RESONANCE THERAPY THE NEW POSSIBILITY OF OSTEOARTHRITIS AND OSTEOPOROSIS TREATMENT**

9) **Nuclear magnetic resonance affects osteoarthritis pain**
   W. Kullich, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Institute for Rehabilitation of Internal Diseases, Saalfelden; scientific poster presentation at the 19th annual conference of the Austrian Pain Society, 26th-28th May 2011. Language: German
10) **MBST – Nuclear Magnetic Resonance Therapy. The new possibility of osteoarthritis and osteoporosis treatment**  
D. Krpan, Policlinica K-Centar, Zagreb, Croatia; lecture at the international symposium of osteoporosis, Niška Banja, Serbien, May 2011.* **Language: Croatian**

11) **MBST - Treatment of chronic skeleton diseases**  

12) **Next Generation of Medical Technology: Therapeutic Effect of NMR-Therapy against Osteoarthritis proven**  
2010:

1) **Modulation of VEGF and Cytokines by Therapeutic Nuclear Magnetic Resonance**
   B. Steinecker-Frohnwieser, L. Weigl, N. Fagerer, W. Kullich, H. G. Kress, Ludwig Boltzmann Institute, Department of Special Anaesthesia and Pain Therapy, Medical University of Vienna, Austria; published in: Journal für Mineralstoffwechsel 2010; 17 (4), p. 155.

2) **MBST – The new concept of the treatment of chronic skeleton diseases**
   D. Krpan, Policlinica K-Centar, Zagreb, Croatia; lecture on the orthopedic days in Maribor, Slovenia, December 2010. * Language: Croatian

3) **Modulation of VEGF and cytokines by the Therapeutic Nuclear Magnetic Resonance (Poster)**
   B. Steinecker-Frohnwieser, L. Weigl, N. Fagerer, G. Weberhofer, W. Kullich, H.G. Kress, LBI for Rehabilitation, Saalfelden, Austria, Department of Special Anaesthesia and Pain Therapy, Medical University of Vienna, Austria; scientific lecture, Austrian Society of Rheumatology and Rehabilitation, Vienna, 25th - 27th Nov. 2010.

4) **Breakthrough in Orthopaedics: Causal Solution to Osteo-Arthritis and Osteoporosis**

5) **World wide interest in new technology from Germany**

6) **Medical Progress in the treatment of arthritis**

2009:

1) **NFAT Modulation in Bone and Cartilage Cells by Therapeutic Nuclear Magnetic Resonance**
   W. Kullich, L. Weigl, B. Steinecker, H.G. Kress; Ludwig Boltzmann Institute of Rehabilitation, Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; Medical University Vienna, Clinical Dept. of Special Anesthesia and Pain Management, Vienna, Austria; Ludwig Boltzmann Institute of Rehabilitation, Gröbming External Office, Gröbming, Austria; Medical University Vienna, Clinical Dept. of Special Anesthesia and Pain Management, Vienna, Austria; academic lecture and poster: German Orthopaedics and Trauma Surgery Conference, Berlin, 21st - 24th October 2009.

2) **Influence of NMR Therapy on Metabolism of Osteosarcoma- and Chondrosarcoma Cell Lines**

3) **Influence of NMR Therapy on Metabolism of Osteosarcoma- and Chondrosarcoma Cell Lines**
4) From diagnostic equipment to therapeutic application
W. Schwägerl; published in: Ärzte Woche, 7.5.2009, p. 22.

5) Does MBST® NMR Treatment Have any Influence on Post-Traumatic Gonarthrosis in Rabbits?
Inaugural Dissertation for Gaining the ‘Doctor Medicinae’ from the Medical Faculty of the Westphalian Wilhelms University of Muenster. A 6-week experimental trial from the University Clinic of Muenster, Clinic and Outpatients’ Dept. for Trauma, Hand and Reconstructive Surgery; director: Prof. Michael J. Raschke MD; presented by Thomas Brockamp, April 2009. Language: German

6) Influence of NMR Therapy on Ca2+ Signalling and Gene Expression in Osteosarcoma and Chondrosarcoma Cell Lines
Lukas G. Weigl, Bibiane Steinecker-Frohnwieser, Carmen Hoeller, Elisabeth Sipos, Hans Georg Kress, Werner Kullich, Department of Special Anesthesia and Pain Management, Medical University Vienna, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, LBI for Rehabilitation of Internal Diseases, Saalfelden, Austria; Regional Biophysics Conference 2009, 10th - 14th February 2009 Linz, Austria.

7) Ameliorates Pain and Improves Function: Magnetic Resonance Treatment on Arthrosis
Published in: Medical Tribune. Vol. 44, no. 1/2, 9.1.2009, p. 9. Language: German

8) Fit for sport: training, warming-up & healing
Author: Prof. Dr. med. Reinhard Weinstabl, Vienna 2009.

2008:

1) The Influence of Magnetic Resonance on the NFAT Pathway in Osteosarcoma and Chondrosarcoma Cells

2) Therapeutic Use of Magnetic Resonance in Arthrosis

3) Arthrosis Treatment with Magnetic Resonance: Procedure Can Stimulate Reparative Processes in the Cartilage and have an Impact on Pain Signal Transduction Cascades

4) Treatment of Osteoporosis with Magnetic Resonance Therapy
T. Handschuh, C. Melzer, Waldkrankenhaus Bad Düben, Specialist Clinic for Orthopaedics, Bad Düben, Germany; published in: Orthodoc, pp. 1-4.

5) Improving Function in Cases of Finger Joint Arthrosis through Magnetic Resonance Treatment
W. Kullich, M. Ausserwinkler; published in: Jatros Orthopädie, no. 4/2008, p. 29. Language: German

6) Arthrosis and Pain Treatment Using Magnetic Resonance
Published in: Wirtschaftsmagazin für den Orthopäden, June 2008, p. 16. Language: German
7) **Functional Improvement in Finger Joint Arthrosis by Therapeutic Use of Magnetic Resonance**
W. Kullich, M. Außerwinkler, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases; scientific poster presentation at the 56th Annual Convention of the Association of South German Orthopaedists, 1st - 4th May 2008. Winner of a ‘Poster Award’ from the Association of South German Orthopaedists, Baden-Baden, Germany, 1st - 4th May 2008.

8) **Results of gene expression surveys under the influence of Nuclear Magnetic Resonance**
W. Kullich, B. Steinecker, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at MedTec Medizintechnik GmbH – presentation of study results, Wetzlar, Germany 10th April 2008.*

Language: German

9) **MBST-Therapy and its influence on the molecular physiology of osteocytes, chondrocytes and PC12 cells**
B. Steinecker, W. Kullich, L. Weigl, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at MedTec Medizintechnik GmbH – presentation of study results, Wetzlar, Germany 10th April 2008.*

Language: German

10) **MBST® Magnetic Resonance: Innovation in the Treatment of Ailments of the Locomotor System**
Published in: DOV Magazin, the magazine of the German Orthopaedists Society, issue May/June 2008, pp. 4 - 6. Language: German

11) **Functional Improvement in Finger Joint Arthrosis by Therapeutic Use of Magnetic Resonance**

**2007:**

1) **Magnetic Resonance Therapy and Bone Health**
Joachim Overbeck MD, Deggendorf, Germany; scientific lecture at Kings College Hospital, Bone Health Group, London, UK, December 2007.

2) **Chronic Joint Problems: Magnetic Resonance Pulse Therapeutically Used**
Dr. Peter Valentin MD, Trauma Surgery Centre, Klosterneuburg, Austria; published in: Ärztewoche, Austria, 13th December 2007, p. 14. Language: German

3) **Application of Nuclear Magnetic Resonance on degenerative rheumatic diseases**
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at the 5th MBST user conference, Wetzlar, Germany, 24th November 2007.* Language: German

4) **Therapeutic use of Nuclear Magnetic Resonance in gonarthrosis, low back pain and finger polyarthritis**
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at the “Evaluation and Research in Rehabilitation”, Gröbming, Austria, 13th September 2007.* Language: German

5) **Nuclear Magnetic Resonance in gonarthrosis therapy**
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann
Therapeutic use of Nuclear Magnetic Resonance in finger polyarthritis
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at the LBI cluster meeting, Bad Tatzmannsdorf, Austria, 22nd June 2007.* Language: German

Influence of Nuclear Magnetic Resonance on gene expression or the electric behaviour of osteocytes, chondrocytes and PC12 cells
B. Steinecker, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at the LBI cluster meeting, Bad Tatzmannsdorf, Austria, 22nd June 2007.* Language: German

Nuclear Magnetic Resonance as a New Treatment Option for Osteoarthritis of the Knee

New methods of osteoarthritis treatment
J. Josiliewicz, lecture at the Bengurion University of Negev, April 2007.* Language: German

Decrease in Extracellular Collagen Crosslinking after NMR Field Application in Skin Fibroblasts

The One Stop Knee Shop - A complete guide to knee fitness, prevention and health maintenance strategies, and medical and surgical care options
Published by: Jack E. Jensen, M.D. FACSM, Houston, USA 2007, pp. 84-85.

2006:

1) Magnetic Radiation Can Regenerate Cartilage - MBST* Magnetic Resonance Therapy as a Useful Complement in Orthopaedics
Language: German

2) Can the therapeutic use of Nuclear Magnetic Resonance extend the rehabilitation success in chronic lumbar syndrome?
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at the 3rd MBST advanced training conference and user meeting, Wetzlar, Germany, 11th November 2006.* Language: German

3) The Effect of MBST* Nuclear Magnetic Resonance Therapy Using a Complex 3-Dimensional Electromagnetic Nuclear Resonance Field on Patients with Low Back Pain

4) Therapeutic use of Nuclear Magnetic Resonance
5) Additional Outcome Improvement in the Rehabilitation of Chronic Low Back Pain after Nuclear Resonance Therapy

6) Application of MBST-NuclearMagneticResonanceTherapy in rehabilitation
W. Kullich, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Ludwig Boltzmann Cluster for Rheumatology, Balneology and Rehabilitation, Saalfelden, Austria; lecture at the first cluster symposium, Medical University Vienna, Austria, 30th May 2006.* Language: German

7) Does Have Low-Energy NMR an Effect on Moderate Gonarthrosis?
H. Jansen, T. Brockamp, JRJ Paletta, S. Ockann, M.J. Raschke, RH Meffert, Department of Trauma, Hand and Reconstructive Surgery, University Hospital Muenster, Germany; scientific lecture and poster presentation at the 52nd Annual Meeting of the Orthopaedic Research Society, March 19th - 22nd 2006, Chicago, IL. Congress catalogue: Abstract and poster no. 1542.

8) Expertise. Evaluation of the Nuclear-Magnetic-Resonance-Therapy MBST in Respect to its Therapeutic Potentials
Prof. Dr. W. Dimpfel, Rudolf-Buchheim-Institute of Pharmacology, University of Gießen, Germany, March 2006.

2005:

1) Magnetic Resonance Therapy Improves Rehabilitation Success in Cases of Chronic Low Back Pain
W. Kullich, N. Fagerer, K. Machreich, H. Schwann, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden, SKA of PVA, Saalfelden, Austria; scientific lecture at the Austrian Rheumatology and Rehabilitation Society Annual Conference, 25th - 26th November 2005, Vienna; published in: Skriptum, pp. 11-12. Language: German

2) Magnetic Resonance Therapy Improves Rehabilitation Success in Cases of Chronic Low Back Pain
W. Kullich, N. Fagerer, K. Machreich, H. Schwann, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Saalfelden, SKA of PVA, Saalfelden, Austria; scientific lecture at the Austrian Rheumatology and Rehabilitation Society Annual Conference, 25th - 26th November 2005, Vienna; published in: Journal für Mineralstoffwechsel, p. 125. Language: German

3) NMR In Vitro Effects on Proliferation, Apoptosis, and Viability of Human Chondrocytes and Osteoblasts

4) Prospective 1-Year Study into the Effectiveness of MBST® Nuclear Magnetic Resonance Therapy as Used in the Conservative Therapy of Gonarthrosis
Auerbach B., Yacoub A., Melzer C.; Waldkrankenhaus Bad Düben, Specialist Hospital for Orthopaedics; Orthopaedic practice, Taucha; lecture and poster presentation at the 1st Collective Orthopaedic and

5) **Expertise**
   Prof. Dr. P. Jacob, Expertise Department of Physics, University of Würzburg, Germany, May 2005.

6) **MBST™ Nuclear Magnetic Resonance Therapy Improves Rehabilitation Outcome in Patients with Low Back Pain**
   W. Kullich, H. Schwann, Ludwig Boltzmann Institute for Rehabilitation of Internal Diseases, Rehabilitation Centre for Rheumatic and Cardiovascular Diseases, SKA of PVA, Saalfelden, Austria; scientific lecture and poster presentation at the EULAR Congress in Vienna (Austria), June 8th - 11th 2005; published in: The EULAR Journal, Annals of rheumatic deseases, Annual European Congress of Rheumatology, 8th - 11th June 2005, p. 519, poster no. SAT0355.

7) **MBST™ Nuclear Magnetic Resonance Therapy with activated coxarthrosis of a 14-year-old patient with cerebral palsy**
   W. Klap sch, Spittal, Austria; scientific lecture at the Austrian Orthopaedics Society Annual Conference, Innsbruck, 2005.

8) **Stationary naturopathy, guide to clinic and rehabilitation**
   Published by: André-Michael Beer, Munich, Jena 2005, p. 169.

2004:

1) **Clinical-pharmacologic expertise commissioned by the Investment Bank Hesse on the question of the effectiveness of the Nuclear Magnetic Resonance Therapy in different orthopedic indications**
   Prof. Dr. med. P. Lücker, FACP, Doctor for Pharmacology/Toxicology, Doctor for Clinical Pharmacology, October 2004.

2003:

2) **Prospective Investigation into the Effectiveness of MBST™ Nuclear Magnetic Resonance Therapy in the Conservative Treatment of Gonarthrosis**
   Auerbach B., Melzer C.; Waldkrankenhaus Bad Düben, Specialist Hospital for Orthopaedics; scientific lecture at the German Congress of Orthopaedists, Berlin, Nov. 2003. Language: German

3) **Prospective Investigation into the Effectiveness of MBST™ Nuclear Magnetic Resonance Therapy (MBST) in the Treatment of Gonarthrosis**
   B. Auerbach, C. Melzer, Waldkrankenhaus Bad Düben, Germany. Language: German

4) **Prospective Investigation in the Effectiveness of MBST™-Nuclear Magnetic Resonance Therapy as Alternative non-Medical Treatment for Osteoporosis**
   W. Klapsch, KH Spital, Austria, 2003. Language: German

5) **First scientific study of the therapeutic applicability of nuclear magnetic resonance signals (MBST™-NuclearMagneticResonanceTherapy) to cartilage structures in vivo**

6) **Scientific Evaluation of the Effectiveness of whole-body MBST™ Nuclear Magnetic Resonance Therapy for Treatment of Osteoporosis**
   J. Overbeck, Deggendorf, Germany, A. Urban, Worms, Germany, G. Gerhardt, Wendelsheim, Germany, ReAkive Treatment Center, Wetzlar, Germany, 2003.
These publications are not available in digital form.

2002:

1) **MBST Magnetic Resonance Therapy as Treatment for Degenerative and Traumatic Joint Changes**
   W. Klapsch, Spittal, Austria; scientific lecture at the annual meeting of the Austrian Orthopaedics Society, Abstract p. 124, Graz, 2002. **Language: German**

2000:

1) **Pulsating electromagnetic waves**
   Breitgraf G., Froböse I., Cologne, scientific lecture at the German Orthopaedics Congress, Wiesbaden, abstracts, October 2000.* **Language: German**

2) **Evaluation of the Effectiveness of the 3-Dimensional Pulsating Electromagnetic Fields of MultiBioSignalTherapy (MBST®) on the Regeneration of Cartilage Structures**
   Froböse, U. Eckey, M. Reiser, C. Glaser, F. Englmeier, J. Assheuer, G. Breitgraf; German University of Sports Science, Cologne, Institute for Rehabilitation; University of Munich, Klinikum Großhadern, Dept. of Diagnostic Radiology; University of Munich, Anatomic Faculty; Institute for Radiology, Cologne; ReAgil Therapy Centre; published in: Orthopaedische Praxis 8/2000, pp. 510-515. **Language: German**

Specialist literature publications:

**Top 100 2014: Innovation Aces: Ranga Yogeshwar introduces Germany’s innovation elite**

**Guide to naturopathic treatment for the doctors practice**
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