

Personal Contact Information

Ferenc A. Jolesz, MD.
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Education

1971 M.D, summa cum laude, Semmelweis Medical School, Budapest, Hungary

Postdoctoral Training

1972-1973 Research Fellow, Biomedical Engineering, K. Kando College of Electrical Engineering, Budapest, Hungary
1975-1979 Resident, Neurosurgery, Institute of Neurosurgery, Budapest, Hungary
1979-1980 Research Fellow, Neurology, Massachusetts General Hospital and Boston Biomedical Research Institute
1980-1982 Research Fellow, Physiology, Harvard Medical School
1982 Clinical Fellow, Neuroradiology, Brigham and Women's Hospital
1982-1985 Resident, Diagnostic Radiology, Brigham and Women's Hospital

Professional Licenses/Certifications

1982 Educational Commission for Foreign Medical Graduates
1982 The Commonwealth of Massachusetts Board of Registration
1987 American Board of Radiology (Diagnostic Radiology)
1988 American Society of Neuroradiology (Neuroradiology)

Academic Appointments

1971-1973 Instructor, Department of Physiology, College of Physical Education, Budapest, Hungary
1973-1974 Assistant Professor, Department of Physiology, College of Physical Education, Budapest, Hungary
1973-1975 Research Associate, Department of Physics, K. Kando College of Electrical Engineering, Budapest, Hungary
1974-1975 Adjunct Professor, Department of Physiology, College of Physical Education, Budapest, Hungary
1981-1982 Research Associate in Physiology, Harvard Medical School, Boston
1985-1989 Assistant Professor of Radiology, Harvard Medical School, Boston
1989-1996 Associate Professor of Radiology, Harvard Medical School, Boston
1996-1998 Professor of Radiology, Harvard Medical School, Boston
1998- B. Leonard Holman Professor of Radiology, Harvard Medical School, Boston

Hospital Appointments

1985 Staff Neuroradiologist, Brigham and Women's Hospital
1985 Radiologist, Brigham and Women's Hospital
1987-1988 Director, Neuro MR Imaging Section, Brigham and Women's Hospital
1987-1995 Consultant, Neuroradiology, West Roxbury VA Hospital

1988- Director, Division of MRI, Brigham and Women's Hospital
 1993- Director, Image-Guided Therapy Program, Brigham and Women's Hospital
 2000-2009 Vice-Chairman of Research, Radiology, Brigham and Women's Hospital
 2001- Director, Advanced Imaging Center, Harvard Medical School, NeuroDiscovery Center

Awards and Honors

1985 Research Career Development Award
 1991 Visions in Medicine Award, General Electric Medical Systems
 1996 Honorary Doctorate, Pannon Agricultural University, Kaposvar, Hungary
 1997 Honorary Member, Hungarian Neuroradiology Society and Hungarian Society of Radiology
 2002 Outstanding Scientist Award, Radiological Society of North America
 2002 Szentgyorgyi Award of Hungarian National Academy of Sciences
 2002 Honorary Doctorate, Semmelweis Medical School, Budapest, Hungary
 2006 Fullbright Research Scholarship
 2007 Gold Medal International Society of Magnetic Resonance in Medicine
 2007 Establishment of Ferenc A. Jolesz Chair in Radiology, Brigham and Women's Hospital, Harvard Medical School (granted to Clare Tempany, MD.)
 2011 Partners in Excellence Award (AMIGO Teamleader)
 2012 Globe 100: Most innovative in Massachusetts. A higher vision for the O.R.
 2012 Named to the Council of Distinguished Investigators of the Academy of Radiology Research
 2013 Research Innovation Award, Brigham and Women's Hospital
 2014 A. Clifford Barger Excellence in Mentoring Award, Harvard Medical School

Research Funding Information, Grants

1985-1988 Principal Investigator, R01 NS23093, "Proton Magnetic Resonance of Myelin and Demyelination"
 1985-1990 Principal Investigator, K04 NS010383, "Proton Magnetic Resonance of Myelin"
 1987-1992 Co-PI, Research Grant, P01 AG04953 (PI: Marilyn Albert), "Age-related Changes of Cognition in Health and Disease, Project 4: MRI"
 1988-1998 Principal Investigator, R01 CA45743, "MRI of Thermally Induced Surgical Interventions"
 1990-1994 Co-PI, N01-NS-0-2397 (PI: Howard Weiner), "Magnetic Resonance Imaging Studies in Multiple Sclerosis"
 1991-1994 Principal Investigator, RG 2318-A1 "Proton Magnetic Resonance of Myelin and Demyelination"
 1992-1995 Co-PI, Whitaker Foundation, "Development of Computerized Image Processing Methods for the Quantitative Analysis of Brain Magnetic Resonance Images for the Diagnosis of Schizophrenia"
 1992-1997 Co-PI, Research Grant, P01 AG04953 (PI: Marilyn Albert), "Age-related Changes of Cognition in Health and Disease," Project 3: MRI
 1992-2008 Principal Investigator, General Electric Company, "Magnetic Resonance Guided Therapy"
 1993-1999 Co-Investigator, R01 CA48939-06 (PI: Kullervo Hynynen), "Intracavitary Ultrasound Hyperthermia"
 1994-1996 Principal Investigator, Adria Laboratories, "Roquinimex in the Treatment of Multiple Sclerosis."
 1995-1999 Co-Investigator, R01 CA46627 (PI: Kullervo Hynynen), "High Temperature Ultrasound Therapy Guided by MRI"
 1995-2012 Principal Investigator, P01 CA67165-10, "MR-Guided Therapy"
 1996-1998 Co-Investigator, F41 624-96-2-0001, "Virtual Endoscopy"
 1996-2004 Co-Investigator, R01 N235142-01 (PI:John Mugler), "Optimize 3D spin echo"

- 1998-2003 Principal Investigator, P41 RR13218 (PI: Ron Kikinis), "Neuroimaging Analysis Center"
- 2003- Co-Investigator, P41 RR13218 (PI: Ron Kikinis), "Neuroimaging Analysis Center"
- 1999-2001 Principal Investigator, S10 RR13952, "Bruker Biospec 47/30 MRI Upgrade"
- 2000-2013 Principal Investigator, R25 CA089017-06A2, "Multidisciplinary Training in Image Guided Therapy"
- 2000-2003 Co-Investigator, R01 AG 19513-01 (PI: Clare Tempany), "MR Guided Prostate Cancer Diagnosis and Brachytherapy"
- 2000-2005 Co-Investigator, CA09536 (PI: Steven Moore), "Research Training in Imaging Methods for Cancer"
- 2005-2015 Principal Investigator, U41 RR019703-04, "Image-Guided Therapy Center"
- 2007-2009 Principal Investigator, R01 9902-01A1, "Intraoperative 3T MRI Scanner for Minimally Invasive Therapy"
- 2010-2014 Principal Investigator, R13 CA139764-01, "NCIGT Workshop on Future Directions in Image-Guided Therapy"

Patents

1. US patent 5,131,392, July 21, 1992. Jolesz FA, Jakab PD. Use of Magnetic Field of Magnetic Resonance Imaging Devices as the Source of the Magnetic Field of Electromagnetic Transducers.
2. US patent 5,611,025. March 11, 1997. Lorensen WE, Jolesz FA, Kikinis R. Virtual Internal Cavity Inspection System.
3. US patent 5,752,515. May 19 , 1998. Jolesz FA, Hynynen K. Methods and Apparatus for Image-guided Ultrasound Delivery of Compounds through the Blood Brain Barrier.
4. US patent 6,074,352, June 13, 2000. Hynynen K, Foldes K, Jolesz FA, Winalski C, Shortkoff S. Method for the Treatment of Joint Diseases Characterized by Unwanted Pannus.
5. US patent 6,320,378. Nov 20, 2001. Maier SE, Jolesz FA, Kacher DF. Continuous Magnetic Resonance Line-Scan Imaging in the Presence of Motion and Varying Magnetic Field Inhomogeneities within the Field of View.
6. US patent 7,362,889, April 22, 2008. Dubowsky S, Hafez M, Jolesz FA, Kacher DF, Lichter M, Weiss P, Wingert A. Elastomeric Actuator Devices for Magnetic Resonance Imaging.
7. US Patent 8,496,573, July 30, 2013. Hata N, Jakab P, Kosa G, Jolesz FA. Steerable Capsule Apparatus and Method.

Pending:

2005 Hynynen K, Jolesz FA, Epstein L. Phased Array Ultrasound for Cardiac Ablation.

Research Interests

MRI Imaging, Image Guided Therapy, Neuroscience

Affiliations/Memberships in Professional Societies

- 1982- Member, New England Roentgen Ray Society
- 1985- Member, Radiological Society of North America (RSNA)
- 1985-1990 Member, Society of Magnetic Resonance in Medicine (SMRM)
- 1988- Senior Member, American Society of Neuroradiology (ASNR)
- 1988- Member, Association of University Radiologists (AUR)
- 1990- Member, International Society of Magnetic Resonance Imaging (ISMRM)
- 1994 Member of the Board of Directors Society of Computer Assisted Surgery (SCAT)
- 1995- Member, Institute of Medicine, National Academy of Sciences
- 2004- Member of the Hungarian National Academy of Sciences
- 2005-2008 Member of the Board of Directors International Society of Brain Mapping and Surgical Planning
- 2006- Fellow, International Society of Magnetic Resonance in Medicine
- 2007-2009 Member, Board of Directors International Society of Intraoperative Imaging

Editorial Boards

1990-1994	Member, Editorial Board, Investigative Radiology
1994-2008	Associate Editor, Academic Radiology
1995-	Member, Editorial Board, Magnetic Resonance in Medicine
1995-1997	Member, Editorial Board, Computer Assisted Surgery
1997-	Member, Editorial Board, Journal of Magnetic Resonance Imaging
2003-	Member, Editorial Executive Committee, Association of University Radiologists
2009	Deputy Editor, Journal of Magnetic Resonance Imaging
2011-	Member, Editorial Board, Neuroradiology Journal
2013-	Member, Editorial Board, Journal of Therapeutic Ultrasound

Selected Professional Services

1986-2008	Co-Director, CT and MRI annual Harvard CME Courses
1988-2001	Workshop Chairman (4 workshops) Society of Magnetic Resonance in Medicine
1990	Member, Visible Human Peer Review Committee National Library of Medicine, NIH
1991-	Chairman and member, Ad Hoc Review Committees National Cancer Institute, NIH
1991-	Chairman, International Symposium on MR-Guided Laser Interventions Symposium, Boston, MA
1991-	Workshop Chairman, Image-Guided Stereotactic Tumor Diagnosis and Treatment, National Cancer Institute, NIH
1991-	Director and Co-Director, <i>MRI Clinical Update and Practical Applications</i> , Harvard MRI CME Course, Harvard Medical School
1994-	Founder, Chairman, and Co-Chairman Biannual International Interventional MRI Workshops (1-9)
1994-	Member, MR Safety Committee International Society of Magnetic Resonance in Medicine
1995-	Member, Program Committee Computer Assisted Radiology
1996-1999	Member, Neuroradiology/Head & Neck Subcommittee Radiological Society of North America (RSNA)
1997-1998	Member, Workshop Committee, International Society for Magnetic Resonance in Medicine
1998-1999	Member, Executive Committee, Center for Innovative Minimally Invasive Therapy (CIMIT)
1999	Chairman, Image-Guided Therapy Committee, American College of Radiology Imaging Network (ACRIN)
2005-2006	President, International Society of Brain Mapping and Surgical Planning (IBMSP)
2006	Chairman, MRI-Guided Therapy: Focus on Cryotherapy Symposium, Beijing China
2007	President, 1 st MRI-guided Focused Ultrasound Symposium Cambridge, MA
2008	President, 1 st Symposium of Focused Ultrasound Foundation
2010	Co-Chair, Interventional MRI Symposium Leipzig, Germany
2011	Chairman, Technology Portion of Program, 1 st European Symposium MRgFUS Therapy, Rome, Italy
2011	Co-Chair, 4 th NCIGT and NIH Image Guided Therapy Workshop, Arlington, VA
2011	ACR Representative, Collaborative Committee for ACR–ASNR–SPR Practice Guideline for the Performance of Non-Breast Magnetic Resonance Imaging (MRI)
2012	Co-Chair, 5 th NCIGT and NIH Image Guided Therapy Workshop, Boston, MA
2012	Chairman, 9 th Interventional MRI Symposium, Boston, MA

Advisory Board, Consultant

1991	Member, Advisory Board, Picker International, CT Clinical Consortium
1991	Member, Advisory Board Member, GE Medical Systems Midfield Magnet
1994	Member, Neuroimaging Advisory Board, GE Medical Systems
1994	Member, Advisory Board, Medical Robotics and Computer Assisted Surgery

1996- Adviser, Radiologic Devices, National Institute of Health, Food and Drug Administration (FDA)
 1998-2006 Adviser, Hong Kong Jockey Club MRI Engineering Centre
 2000-2002 Member, Advisory Board, Surgi-Vision
 2000- Adviser, Neuroscience Research Institute, Gachon University of Medicine and Science, South Korea
 2000 Consultant to the Board, Insightec, Inc, Haifa Israel
 2005- Member, Advisory Board, XinaoMDT (China)
 2009- Member, Advisory Board, Time-Medical (China)
 2008- Adviser, Focus Ultrasound Foundation
 2010- Member, Advisory Board, MACO Surgical, Inc.
 2010- Consultant, Food and Drug Administration (FDA)
 2011- Member, Harvard University Imaging Subcommittee

Selected Invited Presentations

1984 Invited Lecture, Long Island Jewish Hillside Medical Center
 1984 Invited Lecture, American Academy of Physical Medicine and Rehabilitation
 1985 Invited Lecture, Universidad Complutense de Madrid, Spain
 1986 Invited Lecture, Laboratory for Medicinal Chemistry, University of Cambridge
 1988 Invited Lecture, Children's Hospital Medical School, Zurich, Switzerland
 1988 Invited Lecture, McArthur Foundation
 1989 Invited Lecture, Joint MIT/MGH Seminar on Lasers in Biomedical Research, Massachusetts General Hospital, Boston, MA
 1989 Invited Lecture, University of North Carolina, Chapel Hill, NC
 1990 Keynote Speaker, American Society for Neuroradiology Annual Meeting, Los Angeles, CA
 1990 Keynote Speaker, Society of Laser Surgery in Medicine, Nashville, TN
 1990 Invited Lecture, UCLA Medical Center, Los Angeles, CA
 1990 Invited Lecture, Johns Hopkins Medical Institutions, Baltimore, MD
 1990 Invited Lecture, Research Society of Neurological Surgeons of North America Annual Meeting
 1990 Invited Lecture, Hospital of the University of Pennsylvania, PA
 1990 Invited Lecture, University College Hospital, London, England
 1990 Invited Lecture, University of Akita, Department of Radiology, Akita, Japan
 1990 Keynote Speaker, 1st Meeting of the Hungarian Neuroradiological Society, Budapest, Hungary
 1990 Keynote Speaker, 13th Annual Japanese Society of CNS Computerized Tomography, Tokyo, Japan
 1990 Invited Lecture, Institute of Neurology, National Hospital, London, England
 1990 Invited Lecture, University Hospital, Graz, Austria
 1990 Invited Lecture, Diagnostic Imaging Center, Semmelweis University, Budapest, Hungary
 1991 Keynote Speaker, Society for Magnetic Resonance Imaging Annual Meeting, Chicago
 1991 Invited Lecture, University of Texas, M.D. Anderson Cancer Center, Houston, TX
 1991 Invited Lecture, Oregon Health Sciences University, Portland, OR
 1991 Invited Lecture, Long Island Jewish Medical Center, New Hyde Park, NY
 1991 Keynote Speaker, Eastern Neuroradiological Society Annual Meeting
 1992 Invited Lecture, University of Chapel Hill, NC
 1992 Keynote Speaker, (talk presented by R. Mulkern), Society for Magnetic Resonance Imaging Annual Meeting, New York, NY
 1992 Invited Lecture, Convegno di Neuroradiologia Geriatrica, Ancona, Italy
 1993 Invited Lecture, National Science Foundation, Workshop on Computer Assisted Surgery
 1993 Invited Lecture, Department of Radiology, University of Chicago, Chicago, IL
 1993 Invited Lecture, Advances in the Understanding & Treatment of Multiple Sclerosis

Conference, Washington DC

1993 Invited Lecture, Engineering Foundation Conference on Future Directions for Lasers in Medicine and Surgery

1993 Keynote Speaker, Brain Edema 9th International Symposium, Tokyo, Japan

1993 Invited Lecture, Department of Radiology, Keio University School of Medicine, Tokyo, Japan

1993 Invited Lecture, Soka University, Institute of Life Science, Tokyo, Japan

1993 Invited Lecture, Chiba University, Tokyo, Japan

1994 Keynote Speaker, Symposium of the 21st Century, Budapest, Hungary

1994 Invited Lecture, Singapore General Hospital, Singapore

1994 Invited Lecture, University Hospital, Singapore

1994 Keynote Speaker, Radiology Symposium, Budapest, Hungary

1994 Plenary Address, Society of Magnetic Resonance in Medicine, San Francisco, CA

1994 Invited Lecture, Johns Hopkins Medical Institutions

1994 Invited Lecture, Department of Radiology, Memorial Sloan-Kettering Cancer Center

1994 Invited Lecture, New York Hospital, Cornell University

1994 Invited Lecture, Rambam Medical Center, Haifa, Israel

1994 Keynote Speaker, National Conference of the Hungarian Neurosurgical Society, Kaposvar, Hungary

1994 Keynote Speaker, Society for Minimally Invasive Therapy, Berlin, Germany

1994 Invited Lecture, Royal Melbourne Hospital, Melbourne, Australia

1994 Invited Lecture, IGE Medical Systems Ltd, Coolidge Symposium, London, England

1995 Keynote Speaker, MR into the 2nd Decade and Beyond, Garmisch-Partenkirchen, Germany

1995 Plenary Session, American Society of Neuroradiology, Chicago, IL

1995 Invited Lecture, Stanford University School of Medicine, Stanford, CA

1995 Keynote Speaker, 3rd International Congress on New Technology and Advanced Techniques in Surgery, Luxembourg

1995 Invited Lecture, Frieburger Radiologischen Tage, Frieberg, Germany

1995 Invited Lecture, INSERM (French Institute for Research on Health) Paris, France

1995 Invited Lecture, Roentgen Centenary Congress, 100 Years of X Rays, Birmingham, England

1995 Keynote Speaker, 2nd International Workshop on Interventional Radiology, Prague, Czech Republic

1995 Keynote Speaker, SPIE-Institute on Laser-Induced Thermotherapy

1995-1996 Invited Lecture, Refresher Course RSNA, Chicago, IL

1996 Invited Lecture, Long Island Jewish Medical Center, New Hyde Park, NY

1996 Eugene P. Pendergrass New Horizons Lecture, Radiology Society of North America, Chicago, IL

1995 Keynote Speaker, Laser Association of Neurological Surgeons, Surgeons International (LANSI), Salzburg, Austria

1995 Keynote Speaker, Progress in RM International Workshop, San Giovanni Rotondo, Italy

1995 Keynote Speaker, Zurich Symposium and Centennial Meeting

1995 Keynote Speaker, Interventional MRI Workshop, Dusseldorf, Germany

1995 Invited Lecture, St. Mary's Hospital, London, England

1995 Keynote Speaker, European Society of Neuroradiology, Budapest, Hungary

1996 Keynote Speaker, The Society for Minimally Invasive Therapy (SMIT), Milan, Italy

1996 Invited Lecture, Tel Aviv University, Tel Aviv, Israel

1996 Keynote Speaker, 100 Years of Hungarian Radiology, Robotics and Computer Assisted Medical Interventions: An Interventional Workshop, Tihany, Hungary

1996 Invited Lecture, Hirosaki University School of Medicine, Aomori, Japan

1996 Keynote Speaker, 13th Annual European Society for Magnetic Resonance in Medicine and Biology, Prague, Czech Republic

- 1997 Invited Lecture, 2nd Oxford International Symposium on the Costs and Benefits of Radiology
- 1997 Keynote Speaker, American Society of Neuroradiology Annual Meeting, Toronto, Canada
- 1997 Keynote Speaker, 9th Annual International Meeting for the Society of Minimally Invasive Therapy, Kyoto, Japan
- 1997 Keynote Speaker International Symposium and Workshop Neuroendoscopy and Allied Techniques, Tuttlingen, Germany
- 1997 Invited Lecture, High Care, Bochum, Germany
- 1997 Invited Lecture, Bayer Schering Pharma and Siemens STAR Program, Budapest, Hungary
- 1997 Invited Lecture, Western Neuroradiological Society Meeting
- 1997 Invited Lecture, University of California, San Francisco, CA
- 1997 Invited Lecture, 22nd Eugene Pendergrass Lecture, Department of Radiology, University of Pennsylvania, Philadelphia, PA
- 1997 Keynote Speaker, 7th International Radiology Symposium, Garmisch-Partenkirchen, Germany
- 1997 Keynote Speaker, 6th Zurich Course on Interventional Neurology, Zurich, Switzerland
- 1997 Keynote Speaker, European Society for Magnetic Resonance in Medicine and Biology, Vienna, Austria
- 1998 Keynote Speaker, ISMRM 6th Annual Scientific Meeting and Exhibition, Sydney, Australia
- 1998 Invited Lecture, Bayer Schering Pharma and Siemens, STAR Program, China
- 1998 Invited Lecture, 19th Congress of the Hungarian Society of Radiologists, Department of Radiology, Medical University of Pecs, Pecs, Hungary
- 1998 Invited Lecture, Hong Kong University and Hong Kong College of Radiologists Symposium, Hong Kong
- 1998 Keynote Speaker, 10th World Congress for Bronchology and Bronchoesophagology, Budapest, Hungary
- 1998 Invited Lecture, Association of the University of Radiologists Research Symposium Annual Meeting
- 1998 Keynote Lecture, Medical Image Computer and Computer Assisted Intervention (MICCAI), Boston
- 1999 Invited Lecture, Congress of Neurological Surgeons (CNS) Annual Meeting
- 1999 Invited Lecture, Annual Symposium on Critical Issues in Surgery, Staten Island Hospital
- 1999 Keynote Speaker, 37th Merrill Sosman Lecture, Brigham and Women's Hospital, Boston
- 1999 Invited Lecture, 8th Annual International MRI Symposium Garmisch-Partenkirchen, Germany
- 1999 Invited Lecture, 25th Annual Congress for the European Society of Neuroradiology, Vienna, Austria
- 1999 Invited Lecture, University of Hong Kong Symposium on MRI Research and Clinical Applications, Hong Kong
- 1999 Invited Lecture, 2nd International Symposium on Ultrafast MRI in Medicine (ISUM '99)
- 2000 Keynote Speaker, Kaposvar University, Scientific Symposium, Hungary
- 2000 Invited Lecture, Millennium Congress, International Society of Vascular Interventional Radiology, New Delhi, India
- 2000 Invited Lecture, Keio University Center of Excellence Symposium, Tokyo, Japan
- 2000 Invited Lecture, University of Barcelona International Symposium, Barcelona, Spain
- 2000 Invited Lecture, Pannonian Symposium, Hungary
- 2000 Invited Lecture, ISRACAS, Jerusalem, Israel
- 2000 Invited Lecture, Congress of Neurological Surgeons (CNS) Annual Meeting
- 2000 Invited Lecture, William Beaumont Hospital, Royal Oak, Michigan
- 2000 Invited Lecture, RSNA 86th Scientific Assembly and Annual Meeting, Chicago, IL

2000 Invited Lecture, Shiga Medical University, Japan

2000 Invited Lecture, Institute for Magnetic Resonance Research of Sidney University, Australia

2001 Invited Lecture, American Society of Neuroradiology Symposium and 39th Annual Meeting, Boston, MA

2001 Invited Lecture, National Institute of Biomedical Imaging and Bioengineering (NIBIB)

2001 Invited Lecture, 2nd International Innovative Solutions for Prostate Cancer Conference San Diego, CA

2001 Invited Lecture, 3rd Annual National Oncology Forum, Washington DC

2001 Invited Lecture, European Society of Neuroradiology, 11th Advanced Course XXVII Congress, Ancona, Italy

2001 Invited Lecture, MRI and MRS Conference, Cairns, Australia

2002 Invited Lecture, 12th International Symposium on Brain Edema and Brain Tissue Injury, Beijing, China

2002 Invited Lecture, 33rd International Symposium of the Princess Takamatsu Cancer Research Fund, Tokyo, Japan

2002 Invited Lecture, National Neuro Institute, Singapore

2002 Invited Lecture, People's Hospital of Beijing University, China

2002 Keynote Speaker, Brain Edema International Meeting, Hakone, Japan

2002 Invited Lecture, New York Presbyterian Hospital, Cornell University Medical Center

2002 Invited Lecture, 25th Annual Meeting for the American Society of Neurimaging

2003 Invited Lecture, NER Foundation Symposium and ASNR 41st Annual Meeting

2003 Invited Lecture, Hong Kong University MRI Center, Hong Kong, China

2003 Invited Lecture, International Conference on Closed Head Trauma, San Juan, Puerto Rico

2003 Invited Lecture, Seminar at Osaka and Tokyo University, Japan

2003 International Lecture of the year, Finish Radiological Society, Finland

2003 Invited Lecture, RSNA 2003

2004 Invited Lecture, Biomedical Imaging Research Opportunities Workshop II

2004 Invited Lecture, NIDDK National Institutes of Health, Hepatocellular Carcinoma: Screening, Diagnosis and Management

2004 Invited Lecture, Yale School of Medicine, New Haven, CT

2004 Invited Lecture, OR of the Future Workshop, Lake Arrowhead, CA

2004 Keynote Lecture, 25th National Radiology Congress, Antalya, Turkey

2004 Invited Lecture, Namba Hospital, Miyazaki, Japan

2005 Invited Lecture, Indiana University,

2006 Invited Lecture, Symposium at National Cancer Center, Tokyo, Japan

2006 6th John Dopman Memorial Lecture, National Institute of Health Clinical Center

2007 Charles Drake Lecture, Department of Neurosurgery, University of Virginia, Charlottesville, VA

2007 Keynote Lecture, Japan Society for CNS Computed Imaging, Osaka, Japan

2008 Invited Lecture, University of Virginia, Charlottesville, VA

2008-2009 Refresher Courses, RSNA

2008 David B. and Diane Heller Lecture, MRgFUS International Symposium, Washington DC

2008 Invited Lecture, 5th Annual Biomedical Research Symposium, Image Guided Therapy, University of Michigan, Ann Arbor, MI

2009 Keynote Lecture, Academy of Neurosonology, Osaka, Japan

2010 Invited Lecture, Annual Meeting of the American Academy of Neurology, Toronto, Canada

2010 Invited Lecture, American Society of Neuroradiology Meeting, NER Foundation Symposium

2010 Keynote Lecture, 9th International Symposium on Highfield MR in Clinical Applications, Bonn, Germany

- 2010 Moderator, 2nd International MRgFUS Symposium, Washington DC
- 2010 Invited Lecture, Hungarian Medical Association of America, Sarasota, FL
- 2010 Invited Lecture, BWH/DFCI Multidisciplinary Neuro-Oncology Conference, Boston, MA
- 2011 Invited Lecture, University of Rochester, New York, NY
- 2011 Invited Lecture, Translational Health Science Colloquium, Boston, MA
- 2011 Invited Lecture, Cancer Imaging and Radiation Therapy Symposium - A Multidisciplinary Approach. Co-sponsored by the American Society for Radiation Oncology and Radiological Society of North America, Atlanta, GA
- 2011 Invited Lecture, Technology Portion of Program, 1st European Symposium MRgFUS Therapy 2011, Rome, Italy
- 2011 Plenary Lecture, 20 years Harvard Medical School - Kaposvar Diagnostic Center Collaboration, Kaposvar University Anniversary Symposium, Kaposvar, Hungary
- 2011 Keynote Lecture, Annual Research Day, Sunnybrook Health Science Centre of University of Toronto, Toronto, Canada
- 2012 Plenary Lecture, IGT Symposium, Beijing, China
- 2012 Plenary Lecture, Skull Base surgery and Minimally Invasive Neurosurgery Meeting, Shanghai, China
- 2012 Grand Rounds, Department of Neurology, Massachusetts General Hospital, Boston
- 2012 Invited Lecture, Joint Center of Nuclear Medicine, Harvard Medical School
- 2012 Invited Plenary Lectures (2), 71th Congress of Japanese Neurosurgical Society, Osaka, Japan
- 2013 Keynote Lecture, Annual Neuroimaging Society Meeting, Las Vegas, NV
- 2013 Plenary Lecture, Inoperative Imaging Society St Louis, MO
- 2013 Grand Rounds, BWH and Children's Neurosurgery, Boston, MA
- 2013 Keynote Speaker (on Skype), The Society for Minimally Invasive Therapy (SMIT), Munich, Germany
- 2014 Invited Lecture, Image Guided Interventions 50, Oregon Health and Science University, Portland, OR
- 2014 Moderator, Scientific Session I on Prostate, 10th Interventional MRI Symposium, Leipzig, Germany
- 2014 Presenter, Scientific Session VII on Cardiovascular II/Chest- Jayender J, Nehs MA, Lee TC, Jolesz F, Ruan DT. MR-guided parathyroidectomy and intraoperative recurrent laryngeal nerve identification. (V-50).

References

Original Journal Articles

1. Gyarmati I, Jolesz FA. In vitro study of the antibacterial effect of streptomycin-L glutamate. *Fogorv Sz.* 1971 Dec;64(12):445-6. Hungarian. PMID: 5290841.
2. Jolesz FA, Labos E. Study of the anesthetic effect of streptomycin- L-glutamate. *Fogorv Sz.* 1971 Dec;64(12):447-9. Hungarian. PMID: 5290842.
3. Jolesz FA, Szilagyi M. A possible new model of neurons and neural processes based on the quantum-mechanical theory of measurement. *Acta Cybernetica* 1978; 4:221-239.
4. Tulassay Z, Papp J, Szebeni A, Jolesz FA, Horvath T, Szucs J. New possibilities in the diagnosis of Caroli's syndrome. *Orv Hetil.* 1979 Jan 7;120(1):19-23. Hungarian. PMID: 760034.
5. Horvath M, Jolesz FA, Pasztor E. Development of bilateral collateral circulation after fracture of the axis. *Acta Chir Acad Sci Hung.* 1980;21(1):69-76. PMID: 7293611.
6. Sreter FA, Pinter K, Jolesz FA, Mabuchi K. Fast to slow transformation of fast muscles in response to long-term phasic stimulation. *Exp Neurol.* 1982 Jan;75(1):95-102. PMID: 6460645.
7. Jolesz FA, Cheng-Tao X, Ruenzel PW, Henneman E. Flexor reflex control of the external sphincter of the urethra in paraplegia. *Science.* 1982 Jun 11;216(4551):1243-5. PMID: 720063.
8. Wang AM, Jolesz FA, Rumbaugh CL, Zamani A. CT assessment of thoracic extension and of concomitant lesions in syringohydromyelia. *J Comput Assist Tomogr.* 1983 Feb;7(1):18-24. PMID:

6826848.

9. Jolesz FA, Polak JF, Ruenzel PW, Adams DF. Wallerian degeneration demonstrated by magnetic resonance: Spectroscopic measurements on peripheral nerve. *Radiology*. 1984 Jul;152(1):85-7. PMID: 6729140.
10. Holman BL, Jolesz FA, Polak JF, Kronauge JF, Adams DF. Comparison of I-123 IMP cerebral uptake and MR spectroscopy following experimental carotid occlusion. *Invest Radiol*. 1985 Jul;20(4):370-3. PMID: 4044177.
11. Jolesz FA, Patz S, Hawkes RC, Wallman JK. Mapping of normal and abnormal cerebrospinal fluid flow/motion patterns using steady state free precession imaging. *Acta Radiol Suppl*. 1986;369:302-4. PMID: 2980481.
12. Wang AM, Jolesz FA, Rumbaugh CL, Zamani AA, Haykal HA. Thoracic spinal metastasis from unexpected cerebellar medulloblastoma: the value of MRI. *Comput Radiol*. 1986 Jul-Aug;10(4):161-6. PMID: 3791981.
13. Jako GJ, Jolesz FA. The control of neodymium YAG laser fiber optics hyperthermia with magnetic resonance imaging. *SPIE* 1987;712:72-77.
14. Poser CM, Kleefield J, O'Reilly GV, Jolesz FA. Neuroimaging and the lesion of multiple sclerosis. *AJNR Am J Neuroradiol*. 1987 May-Jun;8(3):549-52. PMID: 3111216.
15. Jolesz FA, Polak JF, Adams DF, Ruenzel PW. Myelinated and non-myelinated nerves: comparison of proton MR properties. *Radiology*. 1987 Jul;164(1):89-91. PMID: 3035608.
16. Jolesz FA, Patz S, Hawkes RC, Lopez I. Fast imaging of CSF flow/motion patterns using steady-state free precession (SSFP). *Invest Radiol*. 1987 Oct;22(10):761-71. PMID: 3429171.
17. Sandor T, Bleier AR, Ruenzel PW, Adams DF, Jolesz FA. Application of the maximum likelihood principle to separate exponential terms in T 2 relaxation of nuclear magnetic resonance. *Magn Reson Imaging*. 1988;6(1):27-40. PMID: 3352478.
18. Jolesz FA, Ruenzel PW, Henneman E. Reflex inhibition of urethral sphincters to permit voiding in paraplegia. *Arch Neurol*. 1988 Jan;45(1):38-40. PMID: 3337675.
19. Polak JF, Jolesz FA, Adams DF. NMR of skeletal muscle. Differences in relaxation parameters related to extracellular/intracellular fluid spaces. *Invest Radiol*. 1988 Feb;23(2):107-12. PMID: 3343108.
20. Fried R, Jolesz FA, Lorenzo AV, Francis H, Adams DF. Developmental changes in proton magnetic resonance relaxation times of cardiac and skeletal muscle. *Invest Radiol*. 1988 Apr;23(4):289-93. PMID: 3372193.
21. Polak JF, Jolesz FA, Adams DF. Magnetic resonance imaging of skeletal muscle. Prolongation of T1 and T2 subsequent to denervation. *Invest Radiol*. 1988 May;23(5):365-9. PMID: 3384617.
22. Jolesz FA, Bleier AR, Jakab PD, Ruenzel PW, Huttli K, Jako GJ. MR imaging of laser-tissue interactions. *Radiology*. 1988 Jul;168(1):249-53. PMID: 3380968.
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