

# CURRICULUM VITAE

## PERSONAL DATA

Kenneth Lee Weiss, M.D.  
495 Brickell Ave. Apt 2406  
Miami, FL 33131  
PH: (601) 850-3714 mobile  
PH: (305) 677-9798 office  
Email: drkennethweiss@gmail.com

## EDUCATION

1977-1981 University of Michigan  
School of Medicine, Graduate M.D.

1973-1977 Harvard College  
B.A. General Studies cum laude

## POSTDOCTORAL TRAINING

1994-1995 The Medical College of Georgia  
2<sup>nd</sup> Year Fellowship/ Instructor: Neuroradiology

1985-1986 Ohio State University Hospitals  
Fellowship: MRI and Neuroradiology

1982-1985 Stanford University Medical Center  
Residency: Diagnostic Radiology

1981-1982 Saint Joseph Hospital  
Internship: Flexible-University of Michigan Affiliate

## CURRENT POSITIONS:

2015-current University of Miami Miller School of Medicine  
Professor of Radiology - Voluntary

2010-current Founder & CEO ABSIST LLC  
Patent Portfolio Strategy and Software Development  
Imaging Software e.g. mitigating wrong level spine surgery  
International Licensing Agreements – Siemens AG

## ACADEMIC APPOINTMENTS

2015-current University of Miami Miller School of Medicine  
Professor of Radiology - Voluntary

7/2012-6/2014 University of Mississippi  
Professor of Radiology  
Director NeuroImaging Research  
MIND Center Director NeuroImaging & Biomarkers

9/2001-6/2012 University of Cincinnati, College of Medicine

9/2009-2012	Professor of Radiology
9/2007-2012	Director of Neuro-MRI
9/2007-2012	Director Investigational Image Processing Lab
2001-2009	Associate Professor of Radiology, Psychiatry and BME
9/2001-2005	Associate Director for the Center for Imaging Research
7/1997-6/2001	University of Michigan Medical Center Assistant Professor, Section of Neuroradiology
7/1995-6/1997	The Medical College of Georgia Assistant Professor of Radiology and Neurology
7/1991-6/1994	Central MRI, Linwood, NJ Director of MRI
7/1988-6/1991	Albert Einstein College of Medicine Assistant Professor of Radiology and Neurology Director of MRI, Co-Director Advanced Image Processing Lab
7/1987-6/1988	Saint Joseph Medical Center, Burbank, CA Staff Radiologist, Chief MRI Section, Neuroradiologist
7/1986-6/1987	Boston University Medical Center Assistant Professor of Radiology Clinical Director of MRI-Consultant to Field Effects, Inc

### **GRANT SUPPORT Completed**

NIH/NHLBI/NINDS/NEI, U01-HL096917, PI: Mosley, TH. ARIC Neurocognitive Study (ARIC NCS), Co-investigator: 07/07/2010-04/30/2014 ( \$7,760,259)

NIH/NHLBI, 1R01HL105626, PI: Suri. The Intracranial Atherosclerotic Disease and Cognitive Impairment Study, Co-investigator: 09/06/2011-06/30/2015 (\$962,251)

NIH/NIA, 1R01AG040282, PI: Gottesman, R. The ARIC-PET Amyloid Imaging Study. Co-investigator, 09/15/2011-06/30/2014 (\$456,399)

Guerbet Pharmaceuticals. Intra-individual cross-over efficacy evaluation of DOTAREM®-enhanced MRI compared to GADOVIST®-enhanced MRI in the diagnosis of brain tumors  
PROTOCOL No. DGD 44-058 PI: **Kenneth L. Weiss**. Under negotiation

Pharmatech Inc. ALS\_Gd64/001: Exploratory evaluation of the potential for long-term retention of Gadolinium (Gd) in the bones of patients who have received Gadolinium based Contrast Agents (GdCAs) according to their medical history. Co PI: **Kenneth L. Weiss**.

State of Ohio Child Care Fund: PI: **Kenneth L. Weiss**; Rapid Automated Neuroaxis MRI Screen; No cost NeuroMRI scans for children ( \$100,000) 8/06 – 2011

Guerbet Pharmaceuticals. Efficacy and Safety Evaluation of Dotarem in Magnetic Resonance Imaging (MRI) in Patients with Central Nervous System (CNS) Lesions. PI: **Kenneth L. Weiss**.

RSNA Summer Student Grant Program 2010. Rapid Automated Corpus Callosal Magnetization Transfer Ratio and Morphometrics at 3T: Multiple Sclerosis Assessment. PI: Joanna Jeong, BS, Mentor: **Kenneth L. Weiss**; (\$6000)

Department of Radiology MSSRP. Dual echo Automated Brain Spine Iterative Scan Technique (ABSIST DE) MR Cisternography in the Evaluation of Spontaneous Intracranial Hypotension (SIH). PI: Jeffery Kuo, BS, Mentor: **Kenneth L. Weiss**; (\$3000)

American Cancer Society: PI: **Kenneth L. Weiss**; Bone Metastasis: Rapid Automated Surveillance Technique. (\$30,000) 1/07-2/09

UC Cancer Center Grant: PI: **Kenneth L. Weiss**; Vertebral Breast Metastasis: Detection and Risk Prediction (\$20,000) 2/07-2/09

P&G Pharma: Multiparametric Osteoporosis Imaging; a Cadaveric Study. PI: **Kenneth L. Weiss**; (\$10,000) 8/07-8/09

Proctor & Gamble-Sanofi-Aventis: PI: Nelson B Watts, co-PI: **Kenneth L Weiss**; A Non-invasive Evaluation of Bone Microarchitecture in Osteopenic Postmenopausal Women by 3-dimensional MicroMRI: A 12-month, Multicenter, Double-blind, Randomized, Parallel Group Study Comparing 150 mg Once-a-month Risedronate and Placebo (\$91,224 rad budget only) 06/08-12/08

MicroMRI: PI: **Kenneth L. Weiss**; Installation and Validation VBB. (\$8,113) 1/07-1/08

P&G Pharma. Multiparametric Osteoporosis Imaging; a Cadaveric Study. PI: **Kenneth L. Weiss**; (\$45,000) 7/06-12/07

NIH P50 NS44283-01 SPOTRIAS, Combination Approach to Lysis Using Eptifibade and rt-TPA in Acute Ischemic Stroke (CLEAR) Study, PI: Arthur Pancioli, Co-Investigator 10% 2/02-12/06

NIH 1 RO1 NS39512-01A2, Familial Intracranial Aneurysm Study. PI: Joseph Broderick, Co-Investigator. No direct salary support. 1/03 – 1/08; Indirect salary support, approx. \$5,000 per year.

MicroMRI Inc. MicroMRI  $\alpha$  Site High Resolution MRI in Osteoporosis PI: **Kenneth L. Weiss**; 12/05-3/06 (\$5,745)

COM Dean's Medical Student Summer Grant Program PI: **Kenneth L. Weiss**; (\$2500): 6/06-9/06

UC Radiology Medical Student Opportunity grant PI: **Kenneth L. Weiss**; 2006-2007: (\$5000)

P&G –Sanofi-Aventis Bone Health Alliance:  $\alpha$  Site for In Vivo High Resolution MRI in Normals: a Validation Study. PI: **Kenneth L. Weiss**; 3/06-5/06 (\$62,100)

NIH T35 MSSRP: Co-investigator \$5000/yr. 6/02- 9/05

UC/21 Alignment Grant – China Initiative PI: **Kenneth L. Weiss**; 6/06(\$2500 direct)

UC Office of the Dean and Department Radiology: Neuroscience Made Memorable: fMRI study: PI: **Kenneth L. Weiss**; (\$15,000 total- no direct salary support), 7/1/02 – 7/1/05

UC School of Medicine: Neuroscience Made Memorable: Behavioral study. PI: **Kenneth L. Weiss**; (\$5,000, no direct salary support), 5/1/03 – 7/1/05

The Cincinnati Center for the Neuroimaging Study of Bipolar Disorder: Co-investigator \$12,500/yr.salary support, 1/1/03 –1/1/05

TNI. EEG Triggered-fMRI in Epilepsy, PI: Jersey Szaflarski, Co-Investigator. No direct salary support. 2/03- 2/04

NIH-NRSA Training grant: Summer Medical School Funded Grant Support. Automated MRI motion-correction: Judd Storrs (M2), **Kenneth L. Weiss** (Mentor), (\$4,500 total, no direct salary support), 6/15/03- 9/1/03

DDF intramural grant: Regional Correspondence amongst spectroscopic, anatomical, and fMRI measures of “Ecstasy” neurotoxicity. PI: James C. Eliassen, Co-Investigator. No direct salary support), 9/1/04-9/1/05

NIH-NRSA Training grant: Summer Medical School Funded Grant Support: (\$5,500 total): 6/1/99 - 8/15/99

Alzheimer's Disease Research Center; Functional MRI in Cognitive Tasks; PI: Bozoki, Andrea; 6/99 - 6/00, Co-Investigator: ~2% effort (\$2,000)

NIH-NRSA Training grant: Summer Medical School Funded Grant Support: (\$5,500 total): 6/1/00 - 8/15/00

Pfizer AIS Study. Phase II protocol #101-106. A double-blind, placebo controlled, multi-center study to evaluate the safety and efficacy of a 72-hour infusion of the CP-101,606 in subjects with acute ischemic stroke in the forebrain; PI: Philip Scott, MD. Co-investigator. 4/6-12/31/2000. 2% effort

National Institute on Aging; fMRI of Mental Processes in Older and Younger Adults: PI: DC Park. 7/1/99- 2/1/01; Co-Investigator 2%.

VIF, FY98.004; Integrated Diffusion Tensor and Functional Magnetic Resonance Imaging; PI: **Kenneth L. Weiss**; \$735,914; 7/12/99 – 7/11/02; 50% effort

NIH-RO1 DE 12743-01; Sex Differences in Regional MU Opioid Mediated Pain Processes; PI: Jon-Kar Zubieta; \$499,354; 9-1-98 – 8-31-01; Co-Investigator; 2% effort

2-R01-NS32756-041A; Methods for Functional MR Imaging of the Brain; PI: Douglas Noll; \$666,987; 2-1-99 – 2/1/01; Co-Investigator; 2% effort

2 P01 CA59827 NIH/NCI Fraass, Richard Optimization of high dose conformal therapy Project 4: Clinical studies of high dose conformal therapy. Optimization of high dose conformal therapy Project 4: Clinical studies of high dose conformal therapy. 9/1/00-2/28/05. Co-investigator 5%

Summer UC Medical Student Research Fellowship: Automated Window and Leveling of Brain MRI using Segmented Tissue Histogram Analysis: Judd Storrs (M1), **Kenneth L. Weiss** (Mentor), (\$4,500 total), 6/15/02- 9/1/02

### **CERTIFICATION AND LICENSURE**

1981	National Board of Medical Examiners
1987	American Board of Radiology
1995	ABR-CAQ Neuroradiology
2005-2025	ABR-MOC Neuroradiology
1982-current	California
1986-current	Massachusetts
1988-current	New York
2001-current	Ohio
2003-current	Florida
2012-2016	Mississippi
1991-2002	New Jersey
1994-1999	Georgia
1998-2001	Michigan

### **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

Radiological Society of North America  
 American Roentgen Ray Society  
 International Society of Magnetic Resonance in Medicine  
 American Society of Neuroradiology

### **TEACHING ACTIVITIES and AWARDS**

2005 Mark Lechner (M1)/**Weiss KL** (mentor) NIH MSSRP. Honorable Mention.  
 2006-2007 Virtual Autopsy Program. **PI: Weiss KL**. "MRI & CT of Gross Anatomy Cadavers for Prosection". Sponsor: Proctor & Gamble  
 2007-2008 Virtual Autopsy Program. **PI: Weiss KL**. "CT of Gross Anatomy Cadavers for Prosection". Sponsor: Proctor & Gamble.  
 2007 Suzanne Numan (M1) /**Weiss KL** (mentor) NIH MSSRP. Second Place

### **Medical School Lectures:**

M1- "NeuroImaging Made Memorable: Cranial Nerves" 11-9-12  
 M2- "White Matter Matters", 12-7-01,  
 M1-2s, "Radiology, a Career Choice", 2-6-02  
 M1- "Neuroscience Made Memorable", 8-23-03  
 UC Dual Admission Program. "Brain: fMRI", 4-22-05

**Invited Lectures:**

(Within the University)

**WeissKL.** "Artificial Intelligence: Existential Threat or Opportunity?" University of Miami Neuroradiology Rounds 6-31-17**WeissKL.** "Advanced Imaging in Dementia" University of Miami Neurology Series 1-7-16**WeissKL.** "White Matter Matters: An Imaging Perspective" Neurology Grand Rounds 4/30/14**WeissKL.** "Ventricles and Cisterns: More or Less 5-12-13**WeissKL.** "NeuroImaging Biomarkers in Alzheimer's Disease". Department of Neurobiology and Anatomical Sciences (NAS) seminar series. 2-12-13**WeissKL.** "Epilepsy: an Imaging Perspective". T-meeting 12-4-12**WeissKL.** "The Cranial Nerves". T-meeting 12-11-12**Weiss KL.** "Neuroscience Made Memorable". Summer Neuroscience Experience. 8/08/11**Weiss KL.** "Neuroscience Made Memorable". Summer Neuroscience Experience. 8/04/10**Weiss KL.** "Adv. Neuroimaging Techniques in the Neuroaxis: Head back to the Future. 4/17/10**Weiss KL.** "Pediatric MRI ASSIST". CCHMC Neuro Oncology Conference 11/13/08**Weiss KL.** "White Matter Matters: An Imaging Update." Radiology Grand Rounds, 5/24/01**Weiss KL.** "Basic Neuroradiology Imaging" Neurology Residents: 10-16-01**Weiss KL.** "MRI and Neuroimaging" Biomedical Engineering 103, 4-9-02**Weiss KL.** "White Matter Imaging": Neurology Residents: 4-10-02**Weiss KL.** "White Matter Matters: A Imaging Perspective." Neurology Grand Rounds: 7/24/02**Weiss KL.** "White Matter Matters": Update in Clinical Radiology, UCMC - Sheraton Kingsgate Hotel, Cincinnati, OH: 10/18/03

(Outside the University)

**WeissKL.** "Advanced Imaging in Dementia" University of Miami Radiology Rounds 4-6-15**WeissKL.** "White Matter Matters" University of Miami 9-23-14**WeissKL.** "ABSIST Technology" University of Miami 4-11-14**WeissKL.** "128 Channel Sykra 3T" University of Miami 1-29-14**WeissKL.** "NeuroImaging of AD: A Presentation Not to be Forgotten" 4th Annual Mississippi Physician's Conference on Alzheimer's Disease. 2-1-13**Weiss KL.** *Visiting Professor.* "Back to the Future" 2/21/2011 St. Louis University, Saint Louis, MO.**Weiss KL.** *Visiting Professor.* "White Matter Matters" 10/25/10 SUNY Syracuse, NY**Weiss KL.** *Visiting Professor.* "Back to the Future" 11/12/2010 University of Miami, Miller School of Medicine: Miami, FL**Weiss KL.** *Visiting Professor.* "White Matter Matters" 10/25/2010 SUNY: Syracuse, NY**Weiss KL.** *Visiting Professor.* "White Matter Matters" and "Back to the Future" 9/16-17/2010 University of Alabama: Birmingham, AL**Weiss KL.** "Back to the Future: Updates in Automated Image Processing". University of Maryland: Baltimore, ME 1/23/09**Weiss KL.** "Back to the Future". Ohio State University: Columbus, OH 9/10/08**Weiss KL.** "White Matter Matters: An Imaging Perspective." and "Updates in Automated Image Processing". Brigham and Women's Hospital: Boston, MA 7/20/07**Weiss KL.** "White Matter Matters: An Imaging Perspective." and "Updates in Automated Image Processing". University of Arizona: Tucson, AZ 1/20/07**Weiss KL.** "ASSIST" and "fMRI: Neuroimaging Made Memorable". Beijing Jiaotong University: Beijing, P.R. China: 6/19-22/06

**Weiss KL.** “ASSIST” and “fMRI: Neuroimaging Made Memorable”. Shandong University: P.R. China. 6-28-2006

**Weiss KL.** “White Matter Matters: An Imaging Perspective.” and “fMRI: Neuroimaging Made Memorable”. Florida Atlantic University’s Complex Systems and Brain Sciences. University MRI and Diagnostic Imaging Centers of Boca Raton. Boca Raton, FL. 5/10/01

**Weiss KL.** “White Matter Matters: An Imaging Perspective.” Radiology Grand Rounds, West Virginia University. Morgantown, WV. 6/11/01.

**Weiss KL.** “White Matter Matters: A Neuroimaging Perspective.” Radiology Grand Rounds, Wayne State University. Detroit, MI. 7/9/01.

**Weiss KL.** “MRI Research”: Wellington Diagnostics. Cincinnati, OH. 3-14-02

### **Medical Student Mentor:**

Judd Storrs (M1), Summer Medical Student Research Fellowship, 6/15/02- 9/1/02

Judd Storrs (M2), Summer Medical Student Research Fellowship, 6/15/03- 9/1/03

Kurt Brueggeman, (M1) Summer Medical Student Research Fellowship, 6/15/04- 9/1/04

Goutham Varmana, (M1) Summer Medical Student Research Fellowship, 6/15/04- 9/1/04

Mark Lechner (M1) Summer Medical Student Research Fellowship, 6/15/05- 9/1/05

Mike Hazenfield (M1) COM Dean’s Medical Student Summer Grant Program 6/06-9/06

Suzanne Numan (M1) Summer Medical Student Research Fellowship, 6/07-9/07.

Noah Allen (M1) Summer Medical Student Research Fellowship, 6/08-9/08.

William Boyce (M1) Summer Medical Student Research Fellowship, 6/08-9/08.

Carl Richards (M1) Summer Medical Student Research Fellowship, 6/08-9/08.

Joseph Chang (M4) COM Radiology Special Course 210189, 6/09-7/09

Mohammed Karim (M1) Depart Radiology Summer Medical Student Research Program 6/09-9/09

Yanfeng Su (M1) Depart Radiology Summer Medical Student Research Program 6/09-9/09

Yichun Lin (M1) Depart Radiology Summer Medical Student Research Program 6/09-9/09

Srikanth Kurapati (M4) MD, MBA COM Mentor Program 6/09-6/10

Joanna Jeong (M1) RSNA Medical Student Grant Mentor 6/10-9/10

Jeffery Kuo (M1) DRMSSRP Medical Student Grant Mentor 6/10-9/10

Christopher Kim (M1) Investigational MRI Image Processing Lab. Mentor 6/11-9/11

Sarika Chandiramani (M1) Investigational MRI Image Processing Lab. Mentor 6/11-9/11

Bryan Estill (M1) MSRP. MIND Center University of Mississippi. Mentor 2012-2013

Reed Gilbrow (M1,M2) MSRP. MIND Center University of Mississippi. Mentor 2012-2014

### **Graduate Student Co-Mentor:**

Zhenyu Tang, M.Sc. Department of Artificial Intelligence, University Duisburg-Essen, Germany.

PhD Candidate 6/09-current

Graff C, MS- Department of Radiology, University of Arizona, PhD Candidate 4/08-current

Zha Y MS-Department of Computer Science, Beijing Jiaotong Univ. PhD Candidate 6/09-6/10

Lei He BS – UC Depart. Electrical and Computer Engineering and Computer Sciences 6/02 – 6/03

Clinical Competency Exam 2002- Medical Student Evaluator

Clinical Competency Exam 2003- Medical Student Evaluator 7/28-8/8/03

Clinical Competency Exam 2004- Medical Student Evaluator

### **Radiology Resident and Medical Student Teaching:**

Preceptor Exploratory Experience Northeastern Ohio University College of Medicine (NEOUCOM) 2/14-25 2011.

Clinical Foundations of Medical Practice, (M2) Shadowing in Radiology 8/09-10/09

Numerous Radiology Department T-meetings plus daily case discussions on PACS

Bi-monthly Epilepsy Diagnosis, Management and Research meeting

Monthly UC Department of Radiology Research meeting

### **COMMITTEE AND ADMINISTRATIVE SERVICE**

UMC Department Radiology Contrast Safety Committee 2012-2014

UMC Department Radiology Protocol Committee 2012 -2014

ABR Exam of the Future: Subsection-Safety Committee Member 2011-2013

ISMRM Moderator. Clinical Intensive Education Option-Nouvelle Techniques in Current Clinical Use. Montreal, Canada; May 10, 2011

UC Health MRI Safety Committee. 2011-2012

ACGME Specialty and Neuroradiology PIF Preparation and Accreditation

ASNR Senior Member Mentoring Program 3/10-current

UC Department of Radiology Mentoring Program 2010--2012

UC Department of Radiology Executive Committee 2009-2011

UC Imaging Research and Development Committee (IRDC) 2009-2011

UC Cancer Center Committee 2007-2011

International Faculty-UC Institutional Collaboration Agreement with China - COSMIC Program 2006-2010



UC/21 Alignment Grant China Initiative COM Delegate 2006-2010

Chairman MRI Safety Committee UC COM CIR 8/01-8/04

Co-Chair UC COM CIR Scientific Advisory Committee 8/01-8/04

Faculty Advisor UC Medical Students (M1-M4)

Faculty Mentor for UC Radiology Mentorship Program 6/05-current

Radiology Residency Program Interviewer 1/08

Medical College of Georgia: Medical IRB Committee Member 1995-97

### **INTELLECTUAL PROPERTY:**

#### **Inventions/Copyrights/License Agreements**

**Weiss KL**, et al. Hybrid-color Display. 1986 see publications

**Weiss KL**. Expandable Intracavitary MRI Surface Coil. United States Patent Document Disclosure #170614; February 1987

**Weiss KL**. Nuclear Ultrasound Probe. United States Patent Document Disclosure #298065; December 1991

**Weiss KL**. Integrated Multimodality, Multifunctional Spatial Reference and Skin/Surface Marking System. United States Patent Document Disclosure # 348812; February 1994

**Weiss KL**. Integrated Multimodality, Multifunctional Spatial Reference and Skin/Surface Marking System. Renewal and Addendum. United States Patent Document Disclosure #392173; March 1996

**Weiss KL**. Cranial Nerve Clock. United States Copyright Office. Vau 438-J52. 1 Sept 1998

**Weiss KL**. Cranial Nerve Clock. United States Copyright Office. Vau 481-172. 20 Sept 2000

**Weiss KL**. Computer Automated Three-Step (CATS) Program for Brain MRI Prescription in Talairach Space. United States Patent Office. UC Software Invention Disclosure 102-082. 11/02 – Preliminary U.S. Patent application filed.

**Weiss KL**. Computer Automated Three-Step (CATS) Program for Brain MRI Prescription in Talairach Space. US Patent application filed 15 April 2003

**Weiss KL**. Automated Computer Analysis of the Neuroaxis. US Provisional Patent Application filed: 15 March 2005

**Weiss KL**. Automated Computer Analysis of the Neuroaxis. PCT (Patent Cooperation Treaty) Application filed -US Designate: 15 March 2005

**Weiss KL**, Storrs JM. Automated Neuroaxis (Brain and Spine) Imaging with Iterative Scan Prescriptions, Analysis, Reconstructions, Labeling, Surface Localization and Guided Intervention.

In: Office US Patent & Trademark, ed. USA: University of Cincinnati, appl number 10/598,764  
U.S. Non Provisional: filed 11 Sept 2006.

**Weiss KL.** UC College of Medicine Department of Radiology. Hybrid Convolution Kernel. Pre-release institutional copy: software license. December 2007.

**Weiss KL.** Automated Brain MRI and CT Prescriptions in Talairach Space. In: Office US Patent & Trademark, ed. USA: University of Cincinnati, U.S. Non Provisional: issuance November 11, 2008: US 7,450,983 B2

**Weiss KL.** Hybrid Convolution Kernel. In: Office US Patent & Trademark, ed. USA: University of Cincinnati, to Kenneth L. Weiss, M.D. waive-back 2010: TXu1-650-019

**Weiss KL.** Founder and CEO of ABSIST Ltd (Automated Brain Spine Iterative Scan Technologies) no.1973584: Incorporated Cincinnati, OH 11/2010-6/2013.

**Weiss KL.** Founder and CEO of ABSIST, LLC (Automated Brain Spine Iterative Scan Technologies) no. 1021420: Incorporated Jackson, Mississippi 17 May 2013.

**Weiss KL, Storrs JM.** Automated Neuroaxis (Brain and Spine) Imaging with Iterative Scan Prescriptions, Analysis, Reconstructions, Labeling, Surface Localization and Guided Intervention. In: Office US Patent & Trademark, ed. USA: University of Cincinnati, U.S. Non Provisional: issuance September 6, 2011: US 8,014,575 B2

**Weiss KL.** Method for Automated MR Imaging and Analysis of the Neuroaxis. In: Office US Patent & Trademark, ed. USA: Kenneth L. Weiss, Non Provisional: issuance June 4, 2013: 8,457,377 B2.

**Weiss KL.** ImagiCenter<sup>®</sup> US Trademark. Ser. No. 86068498. Notice of Allowance 4/8/2014

**Weiss KL.** Composite Image Generation and Interaction Display Technology. In: Office US Patent & Trademark, ed. USA: ABSIST, LLC, Non Provisional: issuance. August 12, 2014: 8,805,042 B2.

**Weiss KL.** Image Creation, Analysis, Presentation, and Localization. In: Office US Patent & Trademark, ed. USA: ABSIST, LLC, Non Provisional: issuance. November 24, 2015: 9,196,035 B2.

**Weiss KL.** Computer Apparatus for Analyzing Medical Images for Diffusion-Weighted Abnormalities or Infarct and Generating Prescriptions. USPTO: ABSIST LLC, Non Provisional: issuance September 5, 2017: 9,754,369 B2.

### **JOURNAL REVIEWS:**

Radiology-Reviewer  
American Journal of Neuroradiology

**BIBLIOGRAPHY****Peer reviewed Publications:**

1. **Weiss KL**, Beltran J, Sharman OM, Stella RF, Lewis M. High Field MR Surface Coil Imaging of the Hand and Wrist: Part I. Normal Anatomy. *Radiology* July 1986; 160(1):143-146
2. **Weiss KL**, Beltran J, Lubbers LM. High Field MR Surface Coil Imaging of the Hand and Wrist: Part II. Pathologic Correlations and Clinical Relevance. *Radiology* July 1986; 160(1):147-152
3. Beltran J, Noto AM, Mosure JC, **Weiss KL**, Christoforidis AS. Surface Coil Magnetic Resonance Imaging of the Joints at 1.5 Tesla: The Knee. *Radiology* 1986; 159(3):747-751
4. Beltran J, Noto AM, Mosure JC, Shamam OM, **Weiss KL**, Zuelzer WA. Surface Coil Magnetic Resonance Imaging of the Joints at 1.5 Tesla: The Ankle. *Radiology* Aug 1986; 161(1):203-209
5. Kissel JT, Lolkin S, Chakeres D, Boesel C, **Weiss KL**. Magnetic Resonance Imaging in a Case of Autopsy-Proved Adult Subacute Necrotizing Encephalomyelopathy (Leigh's Disease). *Arch Neurol* 1987; May 44(5):563-566
6. Huber SJ, Paulson GW, Shuttleworth EC, Chakeres DW, Clapp LE, Pakalnis A, **Weiss KL**, Rammohan K. Magnetic Resonance Imaging Correlates of Dementia in Multiple Sclerosis. *Arch Neurol* 1987; 44(7):732-736
7. Chakeres DW, Flickenger F, Breshnahan J, Beattie M, **Weiss KL**, Miller C, Stokes BT. MRI Imaging of Acute Spinal Cord Trauma. *AJNR* 1987; 8(1):5-10
8. Mendell JR, Kolkin S, Kissel JT, **Weiss KL**, Chakeres DW, Rammohan K. Evidence for Central Nervous System demyelination in Chronic Inflammatory Demyelinating Polyradiculoneuropathy. *Neurology* 1987; 37(8):1291-94
9. **Weiss KL**, Stiving SO, Herderick CE, Cornhill JF, Chakeres DW. Hybrid Color MR Imaging Display. *AJR* Oct 1987; 149:825-829
10. Pakalnis A, Drake ME Jr, Dadmehr N, **Weiss KL**. Evoked Potentials and EEG in Multiple Sclerosis. *Electroencephalogr Clin Neurophysiol* 1987 Oct; 67(4):333-6
11. Pakalnis A, Drake ME Jr, Dadmehr N, **Weiss KL**. Correlation of EEG Evoked Potentials and Magnetic Resonance Imaging in Evaluation of Multiple Sclerosis. *Electromyogr Clin Neuro Phys* 1987 Oct-Nov; 27(6-7):489-92
12. Morrison MC, **Weiss KL**, Moskos MM. CT and MR Appearance of a Primary Intraosseous Meningioma. *J Comput Assist Tomogr* 1988; 12(1):169-70
13. Ahern GL, Howard III GL, **Weiss KL**. Posttraumatic Pilonator Seizures: A Case Report. *Epilepsia* 1988; 29(5):640-643
14. Trambert JJ, Rubin AM, **Weiss KL**, Terin AB. Pelvocalyceal Varices Secondary to the Nutcracker Phenomenon: Case Report. *AJR* 1990; 154(2):305-306
15. **Weiss KL**, Levy IM, Morehouse HT. Sagittal MR Images of the Knee: A Low-Signal Band Parallel to the Posterior Cruciate Ligament on Sagittal Images Caused by a Displaced Bucket Handle Tear. *AJR* Jan 1991; 156:117-119

16. **Weiss KL**. Severe Anaphylactoid Reaction After IV GD DTPA. *Magnetic Resonance Imaging*; Jan 1991; 8:817-818
17. Freeman R, Wezenter B, Silverstein M, Kuo D, **Weiss KL**, Kantrowitz AB, Ulrich SK. Hemorrhage of Prolactinoma in Pregnancy. *Fertility and Sterility*; Aug 1992; 58(2):427-429
18. Bruning K, **Weiss KL**, Zeifer B, Comfort C, Kaplan J. Arachnoiditis in the Cauda Equina Syndrome of Long-standing Ankylosing Spondylitis: The Importance of Magnetic Resonance Imaging. *J Neuroimag* 1993; 3:55-57
19. **Weiss KL**, et al. MRI Monitoring of Vigabatrin-induced Intramyelinic Edema in Dogs. *Neurology* 1994; Vol 44:1944-1949
20. **Weiss KL**, Macura KL, Ahmed A. Cerebral air embolism: Acute imaging. *Journal of Stroke & Cerebrovascular Disease* 1998; 7(3):222-226
21. Park YD, Allison JD, **Weiss KL**, Smith JR, Lee MR, King DW. Proton Magnetic Resonance Spectroscopic Observation of Epilepsia Partialis Continua in Children. *J. Child Neurology* 2000; Vol 15(11):729-733
22. Steinberg BA, Bieliaukas LA, **Weiss KL**, Eldevik OP, Welsh RC, Berent S, Chenevert TL, Betley A, Jacobsen EA, Raz J. Functional neuroanatomic correlates of complex visual processing: An fMRI investigation. *NeuroImage* 2000; Vol 11(5): online
23. Weiss, JL, **Weiss KL\***, Benecke, SM. Serotonin Mediated Cluster Headache, Trigeminal Neuralgia, Glossopharyngeal Neuralgia, and Superior Laryngeal Neuralgia with SAD Chronicity. *Child Psychiatry and Human Development* 2001; Vol 32: (1):45-53
24. **Weiss KL**, Welsh RC, Eldevik OP, Bieliauskas L, Steinberg B, Jacobsen E, Khan A. Cranial Nerve Clock© - Part I: A Declarative Memory Paradigm. *Academic Radiology*, 2001; 8:1215-1222
25. **Weiss KL**, Welsh RC, Eldevik OP, Bieliauskas L. Cranial Nerve Clock© Part 2: Functional MR Imaging of Brain Activation during a Declarative Memory Paradigm. *Academic Radiology*, 2001; 8:1223-1238
26. **Weiss KL**, Welsh RC, Dong Q, Weadock WJ, Shah GV. Multiparametric Color-encoded Brain MR Imaging in Talairach Space. *RadioGraphics*. 2002 Mar-Apr;22(2):E3-3
27. **Weiss KL\***, Pan H, Storrs JM, Strub W, Weiss JL, Eldevik OP. Clinical Brain MRI Prescription in Talairach Space: Technologist and Computer Driven Methods. *AJNR*; May 2003:922-929
28. Strub WM, **Weiss KL\***. Case Report: Self-Inflicted Transorbital and Intracranial Injury from eyeglasses. *Emergency Radiology* 2003; 10:109-111.
29. **Weiss KL\***, Storrs JM, Weiss JL, Strub WM. Computer Tomography (CT) Brain Prescriptions in Talairach Space: a New Clinical Standard. *AJNR*; Feb 2004;25(2):233-237
30. Adler CM, Holland SK, Schmithorst V, Wilke M, **Weiss KL**, Pan H, Strakowski SM. Abnormal frontal white matter tracts in bipolar disorder: A diffusion tensor imaging study. *Bipolar Disorders*, 2004;6(3):197-203.

31. **Weiss KL**, Storrs JM, Banto RB. Automated Spine Survey Iterative Scan Technique. *Radiology* 2006; 239:255-262.
32. Ahmed M, Luggen M, Herman JH, **Weiss KL**, Decourten-Myers G., Quinlan JG, Khanna D. Hypertrophic pachymeningitis in rheumatoid arthritis after dalimumab administration. *J Rheumatol*, Nov 2006;33(11):2344-6
33. Strub WM, **Weiss KL\***, Sun DM. Hybrid Reconstruction Kernel: Optimized Chest CT. *AJR*; 2007 Aug;189(2):W115-6
34. Shi,R Sun, D, Qiu ,Zhengding, **Weiss, KL\***. An Efficient Method for Segmentation of MRI Spine Images. *Complex Medical Engineering*. May 2007; ISBN: 978-1-4244-1078-1;713-717
35. He L, Peng Z, Everding B, Wang X, Han CY, **Weiss KL\***, Wee WG. A comparative study of deformable contour methods on medical image segmentation. *Image and Vision Computing* 2008; 26(2): 141-163.
36. Sun D, He B, **Weiss, KL\***. Automatic Head CT Images Prescriptions and Reformations. *ICSP 2008*: 978-1-4244-2179-4/08.
37. **Weiss, KL**, Sun D, Cornelius RS, Weiss JL. Iterative Decomposition of Water and Fat with Echo Asymmetric and Least-Squares Estimation (IDEAL) Automated Spine Survey Iterative Scan Technique (ASSIST). *Magnetic Resonance Insights*: 2008:1 1-6  
<http://www.la-press.com/magnetic-resonance-insights-journal-j115>
38. **Weiss, KL**, Sun D, Weiss, JL. Pediatric MRI Automated Spine Survey Iterative Scan Technique (ASSIST). *AJNR* 2009; 30(4): 821-824. online: <http://www.ajnr.org/pap.dtl>
39. **Weiss KL**, Richards CR, Sun D, Weiss JL. Sub-minute Fat-Water Separated Dual Echo Automated Spine Survey Iterative Scan Technique (ASSIST DE). *AJNR Am. J. Neuroradiol*. 2009; 30:1840-1846
40. Zha Y, Sun D, **Weiss KL\***. Detection of Disk in the MRI Spine Image with reconstructing coronal plane. In: Wheeler B, ed. *IEEE* 2009: 95276
41. Akbar, JJ, **Weiss KL\***, Saafir MA, Weiss JL. Rapid MRI Detection of Vertebral Numerical Variation. *AJR* August 2010:465-466
42. **Weiss KL**, Cornelius RS, Greeley AL, Sun D, Chang IJ, Boyce WO, Weiss JL. Hybrid Convolution Kernel: Optimized CT of the Head, Neck, and Spine. *AJR* Feb 2011: 403-406
43. Baughman RP, **Weiss KL**, Golnick KC. Neuro-ophthalmic Sarcoidosis. *Eye and Brain* 2012:4 1-13
44. Huston R , **Weiss KL**, Dimov M, Kotecha R. Is Osteoporosis Systemic? *Advances in Bioscience and Biotechnology*, 2013, 4, 531-538
45. Morales H, Lu A, Kurosawa Y, Clark JF, Leach J, **Weiss KL**, Tomsick TA. Decreased Infarct Volume and Intracranial Hemorrhage Associated with Intra-Arterial Nonionic Iso-Osmolar Contrast Material in an MCA Occlusion/Reperfusion Model. [American Journal of Neuroradiology](http://www.ajnr.org) 05/2014; DOI:10.3174/ajnr.A3953

**Chapters in Books:**

1. **Weiss KL**, Figueroa RE, Allison JA. "Functional MR Imaging in Patients With Epilepsy". In: Magnetic Resonance Imaging Clinics of North America; W.B. Saunders Company 1998; 6(1):95-111
2. Lower E, **Weiss KL**. "Neurosarcoidosis". In: Clinics in Chest Medicine. Philadelphia: Elsevier, 2008; 475-492.

**Book Review:**

1. **Weiss KL**, "Neuroimaging" Radiology, October 2000.
2. **Weiss KL**, "Diagnostic Imaging Spine" Radiology 2007;242(2):386
3. **Weiss KL**, "RadCases: Neuro Imaging" Radiology Dec 2011

**Scientific Presentations/Published Abstracts**

1. **Weiss KL**, Beltran J. High Field MR Surface Coil Imaging of the Hand and Wrist: Comparison of Normal and Pathologic Anatomy. RSNA Nov 22 1985: Abstract Radiology 1985; Vol.157(p):342
2. Chakeres DW, **Weiss KL**, Partial Volume Averaging and MR Imaging: A Quantitative and Clinical Study. RSNA Nov 22 1985: Abstract Radiology 1985; Vol.157(p):297
3. Chakeres DW, **Weiss KL**. Imaging Aspects of Gd-DTPA as a Possible CSF Contrast Agent. RSNA Nov 17 1985: Abstract Radiology 1985; Vol.157(p):38
4. Chakeres DW, Flickinger F, **Weiss KL**. Comparison of High Resolution Thin Section MRI and CT for Visualization of the Skull Base Foramina. presented ASNR Jan 1986
5. Chakeres DW, Flickinger F, **Weiss KL**, Miller C, Breshnahan J, Beattie M. MRI of an Acute Canine Spinal Cord Trauma Model. AJNR Jan 1986
6. Chakeres DW, Flint E, **Weiss KL**. MRI of the Limbic System. Society for Magnetic Resonance Imaging March 3 1986; Abstract MRI 1986; Vol.4(2):159
7. Chakeres DW, Marx V, **Weiss KL**, Mosure JC. MRI of the vascular structures about the brain stem and cerebellum. Society for Magnetic Resonance Imaging March 3 1986: Abstract MRI 1986; Vol.4(2):159
8. **Weiss KL**, Herderick EE, Stiving SO, Pakalnis A, Cornhill JF, Chakeres DW. Multiple Sclerosis: High Field MRI Hybrid Pseudo-Color Display, Three Dimensional Reconstruction, and Computer Quantification of Plaques. Scientific program presented March 4 1986: Society for Magnetic Resonance Imaging
9. **Weiss KL**, Stiving SO, Herderick EE, Gray L, Cornhill JF, Chakeres DW. High Field MR Surface Coil Imaging of the Spine: Postprocessing Enhancement. Scientific program presented March 4 1986: Society for Magnetic Resonance Imaging
10. Beltran J, Noto AM, Mosure JC, Sharmam OM, **Weiss KL**, Zuelzer WA. High Field Surface Coil MRI: The Ankle. Society of Magnetic Resonance Imaging March 4 1986: Abstract MRI 1986; Vol.4(2):181
11. Marx MV, Beltran J, Rose BS, **Weiss KL**, Martin EW, McCabe DP. Pelvic tumor recurrence: Evaluation with MR and CT. Society for Magnetic Resonance Imaging March 5 1986: Abstract MRI 1986; Vol.4(2)

12. **Weiss KL**. High Field MRI of the Spine. MRI Symposium. The Ohio State University. May 1986
13. Mendell R, Kolkin S, Kissel JT, **Weiss KL**, Chakeres DW, Rammohan K. Central Nervous System Demyelination in Patients with Inflammatory Demyelinating Polyneuropathy. Abstract Neurology 1986; 36(1):225
14. Kolin S, Kissel GT, **Weiss KL**, Moesel CP. MRI in the Early Diagnosis of Adult Leigh's Disease. American Neurologic Assoc; Boston: Nov 1986
15. Pakalnis A, Drake M, Dadmehr N, **Weiss KL**. Correlation of EEG with MRI, CSF, EP, and Clinical Findings in Multiple Sclerosis. Joint Meeting of American EEG Society and American Epilepsy Society. Fall 1986
16. **Weiss KL**, Bydder G, Harms S, Steinmetz N. Image Interpretation Seminars. Palm Beach Magnetic Resonance Imaging Update, Palm Beach: Feb 1987
17. **Weiss KL**. Orthopedic Applications of MRI. Palm Beach Magnetic Resonance Imaging Update, Palm Beach: Feb 1987
18. **Weiss KL**. MRI of the Joints: TMJ and Extremities. Guest Presentation - Practical Reviews in Radiology Dec 1988; Vol.14: No. 8 A&B
19. **Weiss KL**. MRI Reviews. Practical Reviews in Radiology Dec 1988.
20. **Weiss KL**, Levy IM, Morehouse HT. "Double Posterior Cruciate Sign" of Medial Meniscal Bucket Handle Tear. Society for Magnetic Resonance Imaging 1990: Poster Presented - Abstract Available
21. **Weiss KL**, Jhaveri HS. Severe Anaphylactoid Reaction After IV GD DTPA. Society for Magnetic Resonance Imaging 1990: Abstract
22. Rosales MJ, Fonzo J, Butz J, **Weiss KL**, Williams GO, Garcia BJ, X.11 PACS Station. GE/SUN User's Group - San Antonio, TX March 15-17 1990: Abstract Available
23. Bhargava KK, **Weiss KL**, Chun S, Gupta RK, Blaufox MD. GD(PAHIDA) Complex: A New Contrast Agent for Renal Magnetic Resonance Imaging. Society of Nuclear Medicine 1990; Abstract
24. **Weiss KL**, Simpson GV, Vaughan HG, et al. MRI and Brain Electrical Source Analysis (BESA) for Spatial Localization of Dynamic Brain Activity. SMRM Aug 18-24 1990: p. 1140
25. Mehta AD, Simpson GV, Scherg M, Vaughan HG, **Weiss KL**. Spatiotemporal Analysis of Visual Activity in Primates Retinotopic Activation of Human Visual Cortex. Abstract Available; Society of Neurosciences 1990: Vol.16 part 2:569
26. Dunn M, Rapin I, Masur D, Gravel J, Staples D, Philipek P, **Weiss KL**. Calender Calculations and Facial Agnosia in an Autistic Hearing Impaired Women: A Neuropsychological Case Study. Int. Neuropsych. Soc. XIX Feb 15 1991
27. **Weiss KL**, et al. Vigabatrin - Induced Intramyelinic Edema II: Effects on MRI in Dogs.; AAN April 21-27 1991: March 1991: 41 (suppl. 1):331

28. Bruning K, Kaplan J, **Weiss KL**, Zeifer B. MRI in the Evaluation of Cauda Equina Syndrome of Longstanding Ankylosing Spondylitis. AAN April 21-27 1991: March 1991: 41 (suppl. 1):137
29. **Weiss KL**. Neuroimaging in Epilepsy. Epilepsy Preceptorship: Basic Management Intractable Epilepsy Managed Care. May 24-25 1996: School of Medicine Medical College of Georgia. Chateau Elan Winery and Resort Braselton, Georgia
30. **Weiss KL**, Macura KL, Ahmed A. Cerebral air embolism: Diffusion MRI as adjunct to CT. Journal of Stroke & Cerebrovascular Diseases, Vol. 6, No. 6, 1997; pp 459, Montreal, Poster Presentation, October 16, 1997
31. Park YD, Allison JD, **Weiss KL**, Smith JR, Lee MR, Hartlage PL, King D. A Proton Magnetic Resonance Spectroscopy Study of Epilepsia Partialis Continua in Children. Child Neurology Society. Ann Neuro 1997; 42:508
32. Park YD, King DW, Loring SW, **Weiss KL**, Murro AM, Meador KJ, Smith JR. The Relationship of MRI Changes to Other Preoperative Factors, Pathology, and Outcome Following Temporal Lobectomy. Abstract; American Epilepsy Society. Epilepsia 1997 (suppl 8); 139-140
33. Adelman SC, Stafford D, **Weiss KL**, Jebson P, Louis DS, Prince MR. Magnetic Resonance Imaging Evaluation of Lumbrical Incursion into the Carpal Tunnel in Patients with Carpal Tunnel Syndrome. American Hand Society, September 1998
34. Adelman SC, Stafford D, **Weiss KL**, Lois DS, Prince MR. Magnetic Resonance Neurography in the Evaluation of Compressive Neuropathies of the Upper Extremity. American Hand Society September 1998
35. **Weiss KL**, Bieliauskas LA, Steinberg B, Jacobson E, OP Eldevik, Raz Jonathan. Cranial Nerve Clock: A declarative memory paradigm with behavioral and fMRI correlates. Radiology RSNA 1999 (suppl vol 213); 394.
36. **Weiss KL**, Jacobson E, Eldevik OP, Welsh R, Talley M. Neuroimaging of the Cranial Nerves Made Memorable. Radiology RSNA 1999 (suppl vol 213); 497.
37. Park D, **Weiss, KL**, Marshuetz C, Gutches-Hall AH, Mikels J, Welsh RC, Chenevert TL. Visual and Imaginal Encoding in Recognition Memory: An FMRI Study. Abstract submitted, Cognitive Neuroscience, Neuroscience Society Annual Meeting, July 2000, San Francisco.
38. Steinberg BA, Bieliauskas LA, **Weiss KL**, Eldevik OP, Welsh RC, Berent S, Chenevert TL, Betley A, Jacobsen EA, Raz J. Functional Neuroanatomic Correlates of Complex Visual Processing: An fMRI Investigation. Presented at the 6<sup>th</sup> Annual Conf. on Functional Mapping of the Human Brain of the Organization for Human Brain Mapping, June 2000, San Antonio. Published abstract Neuroimage July, 2000
39. Welsh RC, **Weiss KL**. Functional Neuroanatomic Correlates of Complex Visual Processing: An fMRI Investigation. poster presentation Human Brain Mapping 2000, San Antonio 8/00.
40. Bieliauskas LA, Steinberg BA, **Weiss KL**, Edevik OP, Welsh R, Wilde E, Berent S, Chenevert T. General cognitive changes with aging: evidence from functional neuroimaging. In Miewitis S and Rascevska M, (eds.) New Developments in Psychology



in the Baltics: theory and Practice. Abstracts of the IV International Baltic Psychology conference, October 2000, Riga, Latvia

41. **Weiss KL**, Eldevik OP, Shah GV, Port JE. Anterior Commissure (AC) - Posterior Commissure (PC) Reference Line: A New Clinical Standard? RSNA 2000, Chicago, IL 11/2000; 217(p):388
42. **Weiss KL**, Welsh RC, Dong Q, Shah GV, Eldevik OP. High-Resolution color Encoded Brain MRI and Coregistered diffusion Tensor mapping in Talairach space (anterior-posterior commissure referenced), RSNA 2000, Chicago, IL 11/2000; 217(p):620
43. Welsh RC, **Weiss KL**. Haemodynamic Response Function Determination and Use in fMRI Analysis, RSNA 2000, Chicago, IL; 217(p): 310
44. **Weiss KL**, Welsh RC, Dong Q. Automated window/leveling for brain MRI using segmented tissue histogram analysis. ASNR 2001, Boston, MA; April 27, 2001
45. **Weiss KL**, Pan H, Storrs JM, Strub W, Weiss JL, Eldevik OP. Clinical Brain MRI Prescription in Talairach Space: Technologist and Computer Driven Methods. Paper 132. ASNR 2003, Washington DC; April 26 –May 2, 2003
46. **Weiss KL**, Storrs JM, Muzaffar, M, Weiss JL. CT Brain Prescription in Talairach Space: A new clinical standard? Paper 134. ASNR 2003, Washington DC; April 26 –May 2, 2003
47. **Weiss KL**, Storrs JM, Banto R. Automated Spine Survey Iterative Scan Technique (ASSIST). Presented RSNA 2004, Chicago, IL: November 26-December 3, 2004.
48. Mansoor A, Lugggen M, Herman J, **Weiss KL**, Meyers D, Khanna D. Hypertrophic Pachymeningitis in Rheumatoid Arthritis after Adalimumab Administration. J. Rheumatology 2006;33(11):1-3
49. Altbach M, Li Z, Bilgin A, **Weiss KL**. Fast Parametric Imaging of the Spine with Radial IDEAL-GRASE. In: Smith M, ed. ISMRM. Berlin, Germany, 2007.
50. **Weiss KL**, Greeley A, Sun D. Hybrid Reconstruction Kernel: Optimized Head CT. ASNR. Chicago, IL: ASNR, Poster #37; 2007: 249
51. **Weiss KL**, Greeley A, Sun D. Hybrid Reconstruction Kernel: Optimized Spine CT. ASNR. Chicago, IL: ASNR, Poster #217; 2007:347
52. **Weiss KL**, Cornelius R, Greeley A, Sun D. Hybrid Reconstruction Kernel: Optimized Head and Neck CT. ASNR. Chicago, IL: ASNR, 2007:21
53. **Weiss KL**, Cornelius R, Weiss JL, Sun D. IDEAL ASSIST. ASNR. Chicago, IL: ASNR, June 6, 2007:141
54. Shi, R Sun, D, Qiu ,Zhengding, **Weiss, KL\***. An Efficient Method for Segmentation of MRI Spine Images. Complex Medical Engineering. CME May 2007: 713-717
55. **Weiss KL**, Cornelius RS, Lower EE, Weiss JL, Sun DM, Ying J, Mahoney BW, Altbach MI, Fernandez-Ulloa M. IDEAL ASSIST (Automated Spine Survey Iterative Scan Technique): Metastasis Detection. Toronto, Canada: ISMRM, May 7, 2008:2295
56. Graff C, Clarkson E, **Weiss KL**, Altbach MI. Lipid T2\* Determination by Modeling the Intra-Molecular Chemical Shift Effect. Toronto, Canada: ISMRM, 2008:1414

57. **Weiss KL\***, Sun DM, Morales HC, Weiss DL. Dual Energy CT Volumetric Overload: Optimized Display, Reformations and Analysis. New Orleans, LA; ASNR June 5, 2008:225
58. **Weiss KL**, Sun DM, Weiss JL. Pediatric MRI ASSIST (Automated Spine Survey Iterative Scan Technique). New Orleans, LA; ASNR 2008:129
59. Sun D, He B, **Weiss, KL\***. Automatic Head CT Images Prescriptions and Reformations. IN:IEEE,ed. Beijing, China: International Conference Signal Processing (ICSP) June 2008: 978-1-4244-2179-4/08.
60. Allen N, **Weiss KL\***, Numan, S, Hazenfield M, Ying J, Huston R, Watts N, Chmielewski P, Gross, G, Dufresne, T, Nurre, J, Borah, B. Multiparametric Imaging of Bone Architecture: a Cadaveric Study. International Society for Clinical Densitometry. Orlando, FL:March 11, 2009:103
61. Graff C, **Weiss KL\***, Clarkson E, Altbach MI. Simultaneous Estimation of T2, T2-dagger and Lipid Content in Bone with a Novel Iterative Algorithm. Honolulu, HI: ISMRM 2009: 972
62. **Weiss KL\***, Richards CR, Sun D, Weiss JL. Sub-Minute Fat-Water Separated Dual-Echo Automated Spine Survey Iterative Scan Technique. Vancouver, Canada: ASNR 2009;338:187
63. Fox MA, **Weiss KL\***, Weiss JL. Spare a Minute or Two? Multiparametric MR Imaging Spine Screen. Vancouver, Canada: ASNR 2009;340:189
64. Zha Y, Sun D, **Weiss KL\***. Detection of Disk in the MRI Spine Image with reconstructing coronal plane. Beijing, China: iCBBE 2009:95276
65. **Weiss KL\***, Sun D, Fox MA, He B, Weiss JL. Fat-Water Separation MRI: 2D Color Display. Chicago, IL: RSNA 2009:967
66. **Weiss KL\***, Fox MA, Baughman RP, Weiss, JL, Sun D. It hurts everywhere: Rapid holistic spine MRI. American Society of Spine Radiology. Las Vegas, NV Feb 17-21: ASSR 2010:141
67. Su Y, **Weiss KL\***, Allen N, Numan, S, Hazenfield M, Huston R, Chmielewski P, Ying J, Watts NB, Strunk R, Lemen LC, Gross, G, Dufresne, T, Nurre, J, ,Borah, B. Multiparametric Imaging of Bone architecture: a Cadaveric Study. International Society for Clinical Densitometry. San Antonio, TX; ISCD March 2010:141
68. **Weiss KL\***, Cornelius RS, Greeley AL, Sun D, Boyce WO, Chang IJ, Weiss JL. Hybrid Convolution Kernel: Optimized CT of the Head, Neck, and Spine. American Roentgen Ray Society (ARRS). San Diego, CA May 2-7, 2010:182
69. Akbar, JJ, **Weiss KL\***, Saafir MA, Weiss JL. Rapid MRI Detection of Vertebral Numerical Variation. American Roentgen Ray Society (ARRS). San Diego, CA May 2-7, 2010:184
70. Lin Y, **Weiss KL\***, Vagal AS, Weiss JL, Lower EE, Baughman RP. Spinal Involvement in Neurosarcoidosis: Rapid MRI Assessment. Boston, MA: ASNR 2010:496
71. Morales H, Tomsick TA, Lu A, Kurosawa Y, Clark J, Leach J, **Weiss KL**. Nonionic Iso-Osmolar Contrast Reduces Infarct Volume in a Middle Cerebral Artery Occlusion/Reperfusion Model. Boston, MA: ASNR 2010:401

72. **Weiss KL**, Hill VB, Lin Y, Hebert KJ, Thangasamy SJ, Ying J, Weiss JL, Melanson MJ. Maximum intensity FLAIR reformations: increased white matter lesion conspicuity. Seattle, WA: ASNR 2011:82
73. Su Y, **Weiss KL\***, Allen N, Numan S, Hazenfield, M, Ying J, Huston R, Watts N, Billade N, Strunk R, Renner L, Lemen LC, Chmielewski P, Blanton C, Gross G, Dufresne T, Nurre J, Borah B. Multiparametric Imaging of Bone Architecture: a Cadaveric Study. AMA Medical Student Section and Resident and Fellow Section Research Symposium 2010. San Diego, CA November 5, 2010:141
74. **WeissKL\***, Hill VB, Lin Y, Hebert KJ, Thangasamy SJ, Ying J, Weiss JL, Melanson MJ. Maximum Intensity 3D FLAIR Reformations: Increased White Matter Lesion Conspicuity. Montreal, Canada: ISMRM May 12, 2011:e-poster
75. **WeissKL\***, Lin Y, Vagal AS, Weiss JL, Lower EE, Baughman RP. Spine Involvement in Neurosarcoidosis: Rapid MRI Assessment. Miami, FL: ASSR 2012: February 16-19: e-poster

\* Denotes mentor for graduate or undergraduate student.

**Websites:** [www.drkennethweiss.com](http://www.drkennethweiss.com)  
[www.ImagiCenter.net](http://www.ImagiCenter.net)