BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Neil M. Rofsky	Associate Professor , Harvard Medical School Director of MRI, Beth Israel Deaconess Medical Center

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
University of Maryland, College Park New York Medical College, Valhalla, NY	B.S. M.D.	1977-81 1981-85	Biochemistry Medicine

A. Positions and Honors

Professional Experience:

1985 - 1986 Intern, Internal Medicine, Middlesex University Hospital, Rutgers Medical School, New Brunswick, NJ
1986 - 1987 Fellow, Nuclear Medicine, University of Utah Medical Center, Salt Lake City, UT
1987 – 1991 Resident, Radiology, New York University Medical Center, New York, NY
1990 – 1991 Fellow, Abdominal Imaging: CT, Ultrasound, and MRI, New York University Medical Center, New York, NY
1991 - 1992 Fellow, Magnetic Resonance Imaging, New York University Medical Center, NY, NY
1992 – 1998 Assistant Professor of Radiology, New York University School of Medicine, NY, NY
1995 – 2000 Director of Body MRI, New York University School of Medicine, New York, NY
1998 – 2000 Associate Professor of Radiology, New York University School of Medicine, NY, NY
2000 – Associate Professor of Radiology, Harvard Medical School, Director, MRI, Beth Israel Deaconess Medical Center
2000- Director of MRI, Beth Israel Deaconess Medical Center
2009 Member, Board of Trustees, International Society for Magnetic Resonance in Medicine (ISMRM)

Awards and Other Professional Activities:

2000 - American College of Radiology
1987 - Radiological Society of North America
1991 - Society of Magnetic Resonance Imaging
1997- Society of Computed Body Tomography and Magnetic Resonance (*elected membership*)
1999 Moncada award for Research - SCBT/MR “MR Imaging of hepatocellular carcinoma”
1999 Society of Uroradiology Research Award - "MR Assessment of the Pelvic Floor
2000 The Lauterber Award for Research - SCBT/MR - "ACE-inhibitor-enhanced ultra low-dose Gd-DTP MR renography in conjunction with Gd-MRA”
2004 Primary Drafter for ACR Practice Guidelines for the Performance of Pediatric and Adult Body Magnetic Resonance Angiography (MRA)
2005 The Lauterber Award for an Outstanding Scientific Paper on Cross Sectional Imaging – SCBT/MR – “Rapid Body MRI Using IDEAL Water-fat Separation and Parallel Imaging.”
2005 RSNA 2005 Cum Laude Award – Education Exhibit – MRI Evaluation of Acute Right Lower Quadrant Pain
2005-2006 Developmental Project Award, Dana Farber Harvard Cancer Center Renal Cancer SPORE: “Improved MRI of body tumor blood flow for monitoring or response to anti-angiogenic therapy”
2008 Cum Laude Award – SCBT/MR – “Increased Positive Yield with High Resolution 3T Prostate MRI Prompted Biopsies”

B. Selected peer reviewed publications (from >110 total):

1. **Rofsky** NM, Lee VS, Laub G, Pollack MA, Krinsky GA, Thomasson D, Ambrosino MM, Weinreb JC. Abdominal MR imaging with a volumetric interpolated breath-hold examination. Radiology 1999; 212(3):876-884.
2. Lee VS, Rusinek H, Johnson G, **Rofsky NM**, Krinsky GA, Weinreb JC. MR renography with low-dose gadopentetate dimeglumine: feasibility. Radiology. 2001 Nov; 221(2):371-9.
3. Pandharipande PV, Lee VS, Morgan GR, Teperman LW, Krinsky GA, **Rofsky** NM, Roy MC, Weinreb JC. Vascular and extravascular complications of liver transplantation: comprehensive evaluation with three-dimensional contrast-enhanced volumetric MR imaging and MR cholangiopancreatography. AJR Am J Roentgenol 2001;177(5):1101-1107.
4. Sosna J, **Rofsky** NM, Gaston SM, DeWolf WC, Lenkinski RE. Determinations of prostate volume at 3-Tesla using an external phased array coil: comparison to pathologic specimens. Acad Radiol. 2003 Aug; 10(8):846-53.
5. Katz-Brull R, **Rofsky** NM, Lenkinski RE. Breathhold abdominal and thoracic proton MR spectroscopy at 3T. Magn Reson Med 2003; 50(3):461-467.
6. Sosna J, Pedrosa I, Dewolf WC, Mahallati H, Lenkinski RE, **Rofsky NM**. MR imaging of the prostate at 3 Tesla: comparison of an external phased-array coil to imaging with an endorectal coil at 1.5 Tesla. Acad Radiol. 2004 Aug; 11(8):857-62.
7. Zhu Y, Hardy CJ, Sodickson DK, Giaquinto RO, Dumoulin CL, Kenwood G, Niendorf T, Lejay H, McKenzie CA, Ohliger MA, **Rofsky NM.** Highly parallel volumetric imaging with a 32-element RF coil array. Magn Reson Med 2004; 52(4):869-877.
8. de Bazelaire CM, Duhamel GD, **Rofsky** NM, Alsop DC. MR imaging relaxation times of abdominal and pelvic tissues measured in vivo at 3.0 T: preliminary results. Radiology 2004; 230(3):652-659.
9. Bloch BN, **Rofsky NM**, *Baroni RH, Marquis RP, Pedrosa I, Lenkinski RE. 3 Tesla magnetic resonance imaging of the prostate with combined pelvic phased-array and endorectal coils; Initial experience. Acad Radiol. 2004 Aug; 11(8):863-7
10. Sodickson DK, Hardy CJ, Zhu Y, Giaquinto RO, Gross P, Kenwood G, Niendorf T, Lejay H, McKenzie CA, Ohliger MA, Grant AK, **Rofsky** NM. Rapid Volumetric MRI Using Parallel Imaging With Order-of-Magnitude 16. Accelerations and a 32-Element RF Coil Array Feasibility and implications (1). Acad Radiol 2005; 12(5):626-635.
11. Katz-Brull R, **Rofsky** NM, Morrin MM, Pedrosa I, George DJ, Michaelson MD, Marquis RP, Maril M, Noguera C, Lenkinski RE. Decreases in free cholesterol and fatty acid unsaturation in renal cell carcinoma demonstrated by breath-hold magnetic resonance spectroscopy. Am J Physiol Renal Physiol 2005; 288(4):F637-641.
12. Bloch BN, Furman-Haran E, Helbich TH, Lenkinski RE, Degani H, Kratzik C, Susani M, Haitel A, Jaromi S, Ngo L, **Rofsky** NM. Prostate cancer: accurate determination of extracapsular extension with high-spatial-resolution dynamic contrast-enhanced and T2-weighted MR imaging--initial results. Radiology 2007; 245:176-185.
13. Rosen Y, Bloch BN, Lenkinski RE, Greenman RL, Marquis RP, **Rofsky** NM. 3T MR of the Prostate: Reducing Susceptibility Gradients by Inflating the Endo-rectal Coil with a Barium Suspension. Magnetic Resonance in Medicine. 2007, 57(5): p 898-904.
14. Bloch BN, Lenkinski RE, Helbich TH, Ngo L, Oismueller R, Jaromi S, Kubin K, Hawliczek R, Kaplan ID, **Rofsky NM**. Prostate postbrachytherapy seed distribution: comparison of high-resolution, contrast-enhanced, T1- and T2-weighted endorectal magnetic resonance imaging versus computed tomography: initial experience. Int J Radiat Oncol Biol Phys 2007; 69:70-78
15. de Bazelaire C, Alsop DC**,** Pedrosa I, Michaelson MD, George D, **Rofsky NM.** MRI measured tumor blood flow change following antiangiogenic therapy with PTK787/ZK 222584 correlates with clinical outcome in patients with metastatic renal cell carcinoma. Clinical Cancer Research 2008; 4 (17): 5548 - 5544.
16. Lenkinski RE, Bloch BN, Liu F, Frangioni JV, Perner S, Rubin MA, Genega EM, **Rofsky NM,** Gaston SM. An illustration of the potential for mapping MRI/MRS parameters with genetic over-expression profiles in human prostate cancer. MAGMA 2008, 21(6):411-21. Epub 2008 Aug 28.
17. Sun MR, Ngo L, Genega EM, Atkins MB, Finn ME, Rofsky NM, Pedrosa I. Renal cell carcinoma: dynamic contrast-enhanced MR imaging for differentiation of tumor subtypes--correlation with pathologic findings.Radiology. 2009,250(3):793-802.
18. Bloch BN, Lenkinski RE, **Rofsky NM**. The role of MRI in prostate cancer imaging and staging at 1.5T and 3 Tesla: the Beth Israel Deaconess Medical Center approach. Cancer Biomark. 2008, 4(4-5): 251-62.

C. Research Projects Ongoing or Completed During the Last 3 Years

Parallel MR Imaging: New Techniques and Technologies R01 EB00447 NIH/NIBIB
Prinicpal Investigator: Daniel Sodickson, MD, PhD. Period 4/15/02-1/31/07
Role: Co-Investigator
This study aims to develop novel coil arrays and image acquisition methodologies for parallel MRI. The technological and methodological developments will be tested in an ongoing clinical study of patients with abdominal pathology, including cancer.

Core 4 - DF/HCC Renal Cancer Spore 5 P50 CA101942-04 NIH/NCI
Principal Investigator: Michael Atkins Period 9/18/03- 5/31/08
Role: Co-Investigator, Co-Director, Core 4
The overall goal of the DF/HCC Renal Cancer SPORE is the translation of biological and technological advances into clinically meaningful advances for patients with renal cancer. This will be accomplished through a highly integrated program of major research projects, cores and developmental activities focusing on early detection, minimally invasive therapy, angiogenesis inhibition, immune enhancement and identification of molecular prognostic and treatment selection criteria.

Blood Flow MRI for Monitoring of Renal Cell Carcinoma 1 R21 CA121570-01A1
Principal Investigator: David Alsop Period 08/1/08 - 07/1/08
Role: Co-Investigator
The purpose of this research project is to improve the quality, quantification, and reliability of arterial spin labeling imaging for the assessment of response to anti-angiogenic therapy of renal cell carcinoma.

Multivoxel MRS of Human Breast Cancer at 3T R01CA098339-03
Principal Investigator: Robert Lenkinski, PhD Period 04/04/04-03/31/09
Role: Co-Investigator
RO1CA09833901 NIH/NCI
The purpose of the research study is to use MRI and MRS in diagnosing suspected breast tumors. It is hoped that this investigation will discover a new way to identify which masses in the breast are cancerous and which are not. The results of the MRI and MRS are compared to the results of the patient's biopsy.

Characterization of Prostate Cancer with 3T MR R01CA116465-02 NIH/NCI
Principal Investigator: Neil M. Rofsky, MD Period 9/26/06 – 7/31/10
The purpose of this study is to investigate high resolution, dynamic 3D MRI, MRS and T2 weighted imaging at 3T for determining tumor volume, tumor stage and tumor grade using whole mount histopathology as the reference standard for comparison.