

CURRICULUM VITAE

August 19, 2008

Name Theodore L. DeWeese, M.D.

Current Appointments

University: Professor, Radiation Oncology and Molecular Radiation Sciences
The Johns Hopkins University
School of Medicine

Professor, Oncology
The Johns Hopkins University
School of Medicine

Professor, Urology
The Johns Hopkins University
School of Medicine

Joint Appointment, Department of Environmental Health Sciences
The Johns Hopkins University
Bloomberg School of Public Health

Chair, Department of Radiation Oncology and Molecular
Radiation Sciences
The Johns Hopkins University
School of Medicine

Hospital: Radiation Oncologist-in-Chief, The Johns Hopkins Hospital and
Health System

Addresses

Office: Johns Hopkins Cancer Center
The Weinberg Building
401 N. Broadway, Suite 1440
Baltimore, Maryland 21231

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Personal and Family

Place of Birth: Denver, CO
Marital Status: Married
Children: 2 children

Education and Training

1986 B.A., Magna cum Laude, Metropolitan State College of Denver, Denver, Colorado

1990 M.D. with Honors, University of Colorado School of Medicine, Denver, Colorado

1990-91 Internship, Internal Medicine, Franklin Square Hospital Center, Baltimore, Maryland

1991-93 Resident, Radiation Oncology, The Johns Hopkins Hospital, Baltimore, Maryland

1993-94 Chief Resident, Division of Radiation Oncology, The Oncology Center, The Johns Hopkins Hospital, Baltimore, Maryland

1994-95 Post-Doctoral Research Fellow in Urologic Oncology, The Johns Hopkins Oncology Center and The James Buchanan Brady Urological Institute, Laboratory of William G. Nelson, M.D., Ph.D.

Professional Experience

1995-1997 Instructor, Oncology, The Johns Hopkins University, School of Medicine, Baltimore, MD

1995-1997 Instructor, Urology, The James Buchanan Brady, Urological Institute, Johns Hopkins University, School of Medicine, Baltimore, MD

1997-12/2001 Assistant Professor in Oncology, The Johns Hopkins University School of Medicine, Baltimore, MD

1997-12/2001 Assistant Professor in Urology, The James Buchanan Brady Urological Institute, The Johns Hopkins University School of Medicine, Baltimore, MD

2000-present Director, Radiation Biology Program, The Johns Hopkins University, School of Medicine, Baltimore, MD

1/2002-6/2003	Associate Professor in Oncology, The Johns Hopkins University School of Medicine, Baltimore, MD
1/2002-6/2003	Associate Professor in Urology, The James Buchanan Brady Urological Institute, The Johns Hopkins University School of Medicine, Baltimore, MD
7/1/2003-present	Professor of Radiation Oncology and Molecular Radiation Sciences, The Johns Hopkins University School of Medicine, Baltimore, MD
7/1/2003-present	Professor of Oncology, The Johns Hopkins University School of Medicine, Baltimore, MD
7/1/2003-present	Professor of Urology, The James Buchanan Brady Urological Institute, The Johns Hopkins University School of Medicine, Baltimore, MD

Educational Activities

Teaching - Classroom

1996-present	Pathophysiology Course for Second Year Medical Students, Lecturer
2000-present	Radiation Biology Course for Radiation Oncology Residents and School of Public Health Graduate Students, Director

Teaching - Clinical Instruction

1995 - present	Radiation Oncology, Attending Physician
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Mentoring - post-doctoral

<u>Name</u>	<u>Dates</u>	<u>Degree</u>	<u>Present Position</u>
Hurwitz, M.	7/96-6/97	M.D.	Assistant Professor, Harvard University
Ramakrishna, N.	7/98-7/99	M.D., Ph.D.	Assistant Professor, Harvard University
Song, D.	5/99-6/01	M.D.	Assistant Professor, Johns Hopkins University
Thurman, S.	11/99-6/01	M.D.	Instructor, Harvard University
Collis, S.	1/01-10/04	Ph.D.	Post-Doctoral Fellow, Clare Hall Research Institute
Khater, K.	7/01-6/05	M.D., Ph.D.	Assistant Professor, Radiation Oncology, Medical College of Wisconsin
Thompson, T.	4/02-6/04	M.D.	Radiation Oncologist, Houston, Texas
Bajaj, Gopal	6/02-6/05	M.D.	Assistant Professor, Radiation Oncology, Johns Hopkins University
Wilds, Harvey	7/02-6/05	M.D.	Commander and Attending Radiation

			Oncologist, United States Navy, Portsmouth, VA
Lin, Steven	7/04-present	M.D., Ph.D.	Resident/Fellow, Johns Hopkins University
Hales, Russell	7/04-present	M.D.	Resident, Johns Hopkins University

Mentoring - pre-doctoral

<u>Name</u>	<u>Dates</u>	<u>Degree</u>	<u>Present Position</u>
Gontapolli, S.	6/99-9/99		Student, Johns Hopkins University.
Harman, C.	6/99-9/99	B.S.	Medical Student, Johns Hopkins University.
Kahn, T.	8/99-5/01	B.S.	Radiation Oncology Resident, Yale University.
Kirshner, J.	6/99-9/99		Student, Western Maryland College
	6/00-9/00		Student, Western Maryland College
Krochak, K.	6/99-9/99		Graduate Student, Vanderbilt University.
Larrier, N.	8/97-6/00	M.D.	Assistant Professor, Duke University.
Laurie, T.	6/99- present	B.S.	Medical Student, Johns Hopkins University.
Stephens, J.	6/00-9/00	B.S.	Ph.D. Student, Johns Hopkins University.
Swartz, M.	6/00-present	B.S.	Medical Student, Johns Hopkins University.
Thomas, R.	6/98-10/98	M.D.	Urology Resident, Stanford University.
Zhang, G.	6/97-8/97	B.S.	Student, William and Mary College
	6/99-6/00		Student, Johns Hopkins University
Kaiser, A.	7/02-present	B.S.	Medical Student, Johns Hopkins University
Harris, T.	7/02-present	B.S.	Medical and Graduate Student, Johns Hopkins University
Hristov, B.	7/03-present	B.S.	Radiation Oncology Resident, Johns Hopkins University
Ntambi, J.	6/03-present	B.S.	Medical Student, Johns Hopkins University
Hales, R.	6/04-present	B.S.	Resident, Radiation Oncology, Johns Hopkins University
Herod, J.	6/04-present	B.S.	Medical Student, Johns Hopkins University

Doctoral Thesis Committees:

Chad Nelson	P.I. John Groopman, Ph.D.	Department of Environmental Health Sciences, Bloomberg School of Public Health, Johns Hopkins University
Brian Cornblatt	P.I. William G. Nelson, M.D., Ph.D.	Department of Pharmacology, Johns Hopkins University, School of Medicine
Robert Susil	P.I. Ergin Atalar, Ph.D.	Department of Biomedical Engineering, Johns Hopkins University, School of Medicine
Timothy Harris	P.I. Drew Pardoll, M.D, PhD	Department of Oncology, Johns Hopkins University, School of Medicine
Michael Yu	P.I. Richard Ambinder, M.D.	Department of Oncology, Johns Hopkins University, School of Medicine

Editorial Activities

The Prostate, Editorial Board

Journal of Clinical Oncology, Editorial Board

International Journal of Radiation Oncology, Biology, Physics, Ad Hoc Reviewer

Cancer Research, Ad Hoc Reviewer

Clinical Cancer Research, Ad Hoc Reviewer

Molecular Cancer Research, Ad Hoc Reviewer

Journal of Urology, Ad Hoc Reviewer

Urology, Ad Hoc Reviewer

Journal of the American Medical Association, Ad Hoc Reviewer

Proceedings of the National Academy of Sciences, Ad Hoc Reviewer

Clinical Activities**Certification**

1995 Maryland State Board of Medical Examiners (D47485)

1995 American Board of Radiology

Service Responsibilities

2003- Director, Department of Radiation Oncology and Molecular Radiation Sciences, Attending Physician and Head of Genitourinary Radiation Oncology - See and evaluate up to 200 new prostate cancer patients per year and supervise resident physicians- in-training.

2004 Committee Member, Urology Chair Search Committee.

2005 Chair, Dermatology Chair Search Committee.

2005-2008 Board of Governor, Clinical Practice Association

Organizational Activities**Departmental Administrative Appointments**

2003- Chair, Department of Radiation Oncology and Molecular Radiation Sciences

2000-2007 Director, Radiation Biology Program, Johns Hopkins Oncology Center

2000- Member, Education Committee, Johns Hopkins Oncology Center

Professional Societies

- 1991- Member, American Society for Therapeutic Radiology and Oncology
1991- Member, American College of Radiology
1994- Member, American Association for Cancer Research
2002- Examiner, Genitourinary Section of Oral Boards for American Board of Radiology
2002- Member, Executive Committee, Cancer and Radiation Biology Committee, American Society for Therapeutic Radiology and Oncology
2004 Member, 2004 Education Committee, American Association for Cancer Research
2005- American Society for Therapeutic Radiology and Oncology Annual Meeting Program Committee
2006 Member, AACR 2006 Annual meeting Experimental and Molecular Therapeutics (ET) Subcommittee-Preclinical Radiotherapeutics
2006-2008 Member, ASTRO Govt. Relations Committee of the Govt. Relations Council
2006 Member, ASTRO Govt. Relations Federal Resources Subcommittee of the Govt. Relations Council
2006 Chair, ASTRO Govt. Relations NIH Subcommittee of the Govt. Relations Council Radiation and Cancer Biology
2006 Member, ASTRO Abstract Selection and Program Assembly Committee
2007-2009 At-Large Member, SCAROP Executive Committee
2007 Member, International Congress of Radiation Research Program Planning Committee
2008 Member, American Society of Clinical Oncology
2008 Associate Chair, Annual Meeting and Program Committee of the Education Council, American Society for Therapeutic Radiology and Oncology
2008 Member, Research Evaluation Committee of the Research Council, American Society for Therapeutic Radiology and Oncology
2008 ASTRO Representative to the International Atomic Energy Agency – Member ICARO Meeting Planning Committee

RecognitionAwards, Honors

- 1990 Dean's Letter of Academic Achievement
1993-94 Chief Resident, Radiation Oncology, The Johns Hopkins Hospital
1994 American Society for Therapeutic Radiology and Oncology Research Fellowship Award
1995 American Society for Therapeutic Radiology and Oncology Basic Science Travel Grant

- 1998 European Society for Therapeutic Radiology and Oncology Travel Award
- 1999 Doris Duke Research Scientist Award
- 2002 Director's Teaching Award in Basic Science, The Johns Hopkins Oncology Center
- 2003 Director's Teaching Award in Clinical Science, The Johns Hopkins Oncology Center
- 2007 Baltimore Magazine "Top Docs" for Radiation Oncology
- 2008 Teaching Award, Department of Urology, Johns Hopkins University School of Medicine

Invited Talks

- 1995 Urologic Grand Rounds, Brady Urologic Institute, Department of Urology, The Johns Hopkins University School of Medicine "Radiobiology as Applied to the Clinic."
- 1996 Urologic Grand Rounds, Brady Urologic Institute, Department of Urology, The Johns Hopkins University School of Medicine "Conformal Radiation Therapy as a treatment for Prostate Cancer."
- 1996 Southern Medical Association Annual Scientific Assembly, Baltimore, MD. "New Radiotherapy Techniques for Locally Advanced Prostate Cancer."
- 1997 Late-Breaking Research Session, 88th Annual Meeting of the American Association for Cancer Research, San Diego, CA, "Tolerance of Oxidative DNA Damage Results from Disruption of *Msh2* Alleles: Implications for Carcinogenesis."
- 1997 National Academy of Sciences, Keynote Speaker, Impact of Biology on Risk Assessment Workshop, BEIR VII, Washington, DC, "Tolerance of Oxidative DNA Damage Results from Disruption of *Msh2* Alleles: Implications for Carcinogenesis."
- 1997 Medical Society of Delaware, Boardwalk Symposium on Prostate Cancer, Rehoboth Beach, DE, "Radiation and Androgen Deprivation Therapy in Prostate Cancer Management."
- 1997 Oncology Center Grand Rounds, The Johns Hopkins Oncology Center, "Alterations in DNA Mismatch Repair Function Alter Cellular Radiosensitivity."

- 1998 The George Washington University Medical Center, Symposium: Alternatives to Surgery for the Treatment of Localized Prostate Cancer, Washington, DC, "Conformal Radiation Therapy for Prostate Cancer."
- 1998 The Johns Hopkins Oncology Center 24th Annual Symposium: Diagnosis and Treatment of Neoplastic Disorders, Baltimore, MD, "Bladder Preservation Therapy for Muscle-Invasive Bladder Cancer."
- 1998 The Johns Hopkins University Spring Lecture Series: New Approaches to Cancer Therapy, Baltimore, MD, "Protracted Exposures to Ionizing Radiation: Implications for Cancer Treatment and Prevention."
- 1998 Urologic Grand Rounds, Brady Urologic Institute, Department of Urology, The Johns Hopkins University School of Medicine, "Bladder Preservation Therapy for Muscle-Invasive Bladder Cancer."
- 1998 The University of Amsterdam, Amsterdam, The Netherlands "Defects in DNA mismatch repair genes and cellular exposure to low dose rate radiation: A potential model linking chronic oxidative stress and carcinogenesis."
- 1998 Oncology Center Grand Rounds, The Johns Hopkins Oncology Center, "Cytolytic Gene Therapy for Locally-Recurrent Prostate Cancer Following Radiation."
- 1998 Radiology Grand Rounds, The Johns Hopkins Hospital, "Cytolytic Gene Therapy for Locally-Recurrent Prostate Cancer Following Radiation."
- 1998 AACR Special Conference in Cancer Research New Research Approaches in the Prevention And Cure of Prostate Cancer. Indian Wells, California, "Molecular Mechanisms of Diminished Defense against Ionizing Radiation in Prostate Cancer Carcinogenesis."
- 1999 Visiting Professor, University of Pennsylvania, Department of Radiation Oncology. "Disruption of DNA Mismatch Repair Genes Results in Alteration of Cellular Radiation Response."
- 1999 Visiting Professor, University of Maryland, Department of Radiation Oncology, "Alteration of Cellular Radiation Response as Result of Disruption in DNA Mismatch Repair, and "PSA Gene-Regulated Cytolytic Adenoviral Therapy for Locally-Recurrent Prostate Cancer following Radiation."
- 1999 The Johns Hopkins Oncology Center 25th Annual Symposium: Diagnosis & Treatment of Neoplastic Disorders, Baltimore, MD, "Primary Therapy for Clinically-Localized Prostate Cancer with Radiation."
- 1999 Urologic Grand Rounds, Brady Urological Institute, Department of Urology, The

- Johns Hopkins University School of Medicine, "Oxidative DNA Damage: Carcinogenesis and Prevention".
- 1999 Visiting Professor Emory University, Department of Radiation Oncology, "Low Dose-Rate Radiation - Induced Oxidative DNA Damage: Role of DNA Mismatch Repair and GSTPI in Damage Modulation."
- 2000 Visiting Professor, Mayo Clinic, Molecular Medicine Program, "Gene Therapy for Prostate Cancer."
- 2000 Visiting Professor, Mayo Clinic, Department of Radiation Oncology, "Locally-Recurrent Prostate Cancer following Radiation Therapy - Novel Gene Therapy Approaches."
- 2000 Urologic Grand Rounds, Brady Urological Institute, Department of Urology, The Johns Hopkins University School of Medicine, "Adenoviral Gene Therapy for Prostate Cancer."
- 2000 The Maryland Urological Association Annual Meeting, Baltimore, MD, "Adenoviral Gene Therapy for Locally Recurrent Prostate Cancer Following Radiation."
- 2001 Visiting Professor, Georgetown University, Departments of Radiation Oncology and Urology, "Prostate Cancer Gene Therapy, An Overview."
- 2001 CaPCure Gene Therapy Summit Meeting, Baltimore, MD. "Replication-Competent PSA-Selective, Oncolytic Adenoviral Gene Therapy for Prostate Cancer: What Do We Know and Where Do We Go?"
- 2001 Visiting Professor, University of Michigan, Department of Radiation Oncology. "Overview of Prostate Cancer Gene Therapy."
- 2001 Visiting Professor, Duke University, Department of Radiation Oncology. "Prostate Cancer Gene Therapy: Immunotherapy and Adenoviral Approaches."
- 2001 Invited Speaker, 59th Annual Meeting of the Mid-Atlantic Section of the American Urological Association, Inc.
- 2001 Invited Speaker, 16th Annual Meeting of the Society for Biological Therapy. "Pre-clinical and clinical results of a PSA-selective replication competent adenovirus in the treatment of Prostate Cancer", Bethesda, MD.
- 2002 Visiting Professor, Columbia University, Department of Radiation Oncology, "Cytolytic Adenoviruses as a Novel Cancer Therapeutic for Prostate Cancer", New York, NY.

- 2002 Invited Speaker, Juan A. Del Regato Gold Medal Presentation and Lecture, Johns Hopkins School of Medicine, Department of Radiation Oncology, “Adenovirus-mediated Modulation of Prostate Cancer Radiation Response”, Baltimore, MD.
- 2002 Invited Speaker, 47th Annual Tumulty Topics in Medicine Course, Johns Hopkins School of Medicine, “Radiation Therapy in the Treatment of Prostate Cancer”, Baltimore, MD.
- 2002 Invited Speaker, 2002 AAPM Annual Meeting, “Adenoviral-based Gene Therapy for the Treatment of Prostate Cancer: Concepts and Considerations for the Medical Physicist”, Montreal, Quebec, Canada.
- 2002 Invited Speaker, Radiation Biology Review Course, University of Maryland “New Modalities”, Baltimore, MD.
- 2002 Invited Speaker, Prostate Cancer 2002: New Perspectives, International Center for Postgraduate Medical Education, “Gene Therapy”, Baltimore, MD.
- 2003 Lecturer, Bloomberg School of Public Health, Johns Hopkins University, “Prostate Cancer Diagnosis and Treatment”, Baltimore, MD.
- 2003 Invited Speaker, RSNA 2003 Meeting, “Enhanced Radiation and Chemotherapy-Mediated Killing of Human Cancer Cells by siRNA-Silencing of DNA Repair Factors”, Chicago, IL.
- 2003 Invited Speaker, Annual Prostate Cancer Symposium, Washington Adventist Hospital, “Prostate Cancer Gene Therapy: Fundamentals and Clinical Applications for the Oncologist”, Washington, D.C.
- 2003 Invited Speaker, International Workshop on Prostate Treatment, “Prostate Cancer Gene Therapy”, Sydney, Australia.
- 2003 Presenter, ASTRO Annual Meeting, “siRNA-Silencing of DNA Repair Factors Results in Enhanced Radiation and Chemotherapy-Mediated Killing of Human Cancer Cells”, Salt Lake City, Utah.
- 2004 Keynote Speaker, SPIE Meeting on Biomedical Optics, “Prospects for optical technology in radiation oncology and prostate cancer”, San Jose, CA.
- 2004 Invited Speaker, Think Tank on Molecular Imaging and Prostate Cancer, “Overview: Radiation Oncology Perspective”, Washington, DC.
- 2004 Invited Speaker, AACR Annual Meeting, “Enhancing Cellular Radiation Response Using Targeted Gene Therapy Techniques”, Orlando, FL.

- 2004 Invited Speaker, ASCO Annual Meeting, Genitourinary Prostate Cancer, New Orleans, LA.
- 2004 Invited Speaker, 4th International Congress on Genetics and Regeneration in Neuroscience, “Novel Biologic Modifiers of Cellular Radiation Response”, Terni, Italy.
- 2004 Invited Speaker, Cancer Education Consortium – Pharmacology of Anticancer Agents, “Drug/Radiation Interactions”, Leesburg, VA.
- 2004 Invited Speaker, Translational Research Conference, Johns Hopkins University, School of Medicine, "ATM as a Target for Cellular Radiation Sensitization: Molecular Rationale", Baltimore, MD.
- 2004 Visiting Professor, Baylor College of Medicine, “ATM as a Target for Cellular Radiation Sensitization: Molecular Rationale", Houston, TX.
- 2004 Invited Speaker, AACR Annual Meeting, “Targeted Molecular Approaches to Enhance Radiation-induced Prostate Cancer Cell Death”, Bonita Springs, FL.
- 2004 Invited Speaker, SUO/NCI Meeting, “Gene Therapy and Radiation Therapy”, Bethesda, MD.
- 2004 Invited Speaker, Brain Tumor Research Seminar, Johns Hopkins University, Baltimore, MD.
- 2005 Visiting Professor, Massachusetts General Hospital/Harvard Medical School, “Gene Therapy and Radiation Oncology”, Boston, MA.
- 2005 Guest Lecturer, Oncology Grand Rounds, Johns Hopkins University, “Cancer Gene Therapy and Radiation: An Integrated Approach”, Baltimore, MD.
- 2005 Guest Lecturer, Neurosurgery Grand Rounds, Johns Hopkins University, “Enhancing Radiation-Induced Cancer Cell Death”, Baltimore, MD.
- 2005 Visiting Professor, Department of Radiation Oncology, University of Maryland, “ATM as a Target for Cellular Radiation Sensitization: Molecular Rational”, Baltimore, MD.
- 2005 Visiting Professor, Department of Radiation Oncology, East Carolina University, “ATM as a Target for Cellular Radiation Sensitization: Molecular Rational”, Greenville, NC.
- 2005 Invited Speaker, Cancer Education Consortium/Genetech/Biogen IDEC,

- “Drug/Radiation Interactions”, Leesburg, VA.
- 2006 Keynote Speaker, 64th Oncology Day Meeting, Netherlands Cancer Institute, “Molecular Targeted Therapy”, Amsterdam, The Netherlands.
- 2006 Invited Speaker, 2nd Baltimore Area Repair Symposium: DNA Damage and Repair in Cancer, “DNA Damage/Repair and Cancer and Therapeutic Possibilities”, Baltimore, MD.
- 2006 Visiting Professor, Biochemistry & Molecular Biology, “ATM and Cellular Radiation Response: A Molecular Rationale for Targeted Therapies”, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
- 2006 Invited Speaker, Johns Hopkins Medicine Latest Advances, “Minimally invasive therapies for prostate, ovarian and other cancers”, Athens, Greece.
- 2006 Invited Speaker, Cancer Education Consortium, Clinical Pharmacology of Anticancer Agents, “Drug/Radiation Interactions”, Leesburg, VA.
- 2006 Faculty and Invited Speaker, 2nd Annual Oncology Congress, “New Radiation Technologies – Proton, IMRT, Brachytherapy”, New York, NY
- 2007 Faculty and Invited Speaker, 7th Annual Oncology Update: Advances and Controversies, “New Advance or much Ado About Nothing?” Steamboat Springs, Colorado.
- 2007 Invited Speaker, ACRO 2007 – 17th Annual Meeting, “ATM as a Target for Prostate Cancer Radiation Sensitization: Molecular Rationale”, San Diego, CA.
- 2007 Invited Speaker, International Congress on Radiation Research Symposium, “The Relationship Between Checkpoint Signaling and DNA Repair”, San Francisco, CA.
- 2007 Invited Speaker, 98th Annual AACR Meeting, “Job Search 101”, Los Angeles, CA.
- 2007 Invited Speaker, The Fourth AdMeTech Foundation Conference, “Novel Tools in Imaging Guided Treatment”, Washington, DC.
- 2007 Invited Speaker, 14th Annual Prostate Cancer Symposium, “ATM as a target for prostate cancer radiation sensitization: Molecular rationale”, Bethesda, MD.
- 2007 Invited Speaker, VUmc CCA Oncology Symposium 2007, “Radiotherapy of prostate cancer”, Amsterdam.

2007 Invited Speaker, ASTRO'S 49th Annual Meeting, "The Rush to IMRT", Los Angeles, CA.

Research Activities

Extramural Sponsorship

Active- Laboratory

2003-2008 NIH/NCI P50 – Pilot Project Grant

Principal Investigator: Zaver Bhujwala

Non-invasive Monitoring of Therapeutic Effect of siRNA-Mediated Radiation Sensitization in Human Prostate Cancer Xenografts

2003-2008 NIH/NCI

Specialized Programs of Research Excellence (S.P.O.R.E.) on Prostate Cancer

Principal Investigator: T.L. DeWeese, Project 4, "Cytolytic Adenoviral Gene Therapy for Prostate Cancer"

2003-2008 NIH/NCI (**5 P50 CA58236**) Principal Investigator Wm Nelson

Project 3 – SPORE I Prostate Cancer

Oncolytic Adenoviral Gene Therapy for Prostate Cancer"

Prostate Cancer Foundation, Principal Investigator: T.L. DeWeese

Temperature Enhanced Metastatic Therapy

2008-2013 NIH T32 CA121937-01A2

Principal Investigator: T.L. DeWeese

Laboratory Training Program in Radiation Oncology

Pending

NIH/NCI Specialized Program of Research Excellence (S.P.O.R.E.) 2008-2013

Principal Investigator: Wm Nelson

Project 1- Tissue-Specific Radiation Sensitization of Prostate Cancer by Aptamer-Targeted siRNA Knock-Down of DNA Repair Pathways

NIH, NCI

Principal Investigator: E.C. Burdette

C-Arm Fluoroscopy in Prostate Brachytherapy

Tomotherapy Inc. John Wong

1/1/07-12/31/08

Reduction of Treatment Margin for Hypofractionated Treatment of Prostate Cancer Using the Mv Ct Capabilities of the Hi-Art System from Tomotherapy

Completed

- PO1CA 58236 (DeWeese) 4/01/98 - 4/31/03
NIH/NCI
“Determinants of Radiosensitivity in Prostate Cancer Cells”
- T99048C (DeWeese) 7/01/99 - 6/31/02
Doris Duke Charitable Foundation
Detection of biomarkers of oxidative damage in prostatic tissue DNA from patients with prostate cancer.
- DAMD17-98-1-8475 (DeWeese) 1998 - 2002
Department of Defense
Oncolytic Gene Therapy for Prostate Cancer.
- DAMD17-00-1-0084 (DeWeese) 2000 – 2003
Department of Defense
Biomarkers of oxidative injury and their modulation in prostatic tissue from patients with prostate cancer.
- 01-CN-85129-MAO 7/1/99 - 6/30/03
NIH/NCI
A Randomized placebo-controlled trial of celecoxib in men pre-prostatectomy for clinically localized adenocarcinoma of the prostate: evaluation of drug-specific biomarker modulation.
Modulation of angiogenesis and oxidative DNA damage by celecoxib tumor
- 2R01CA70196-04A1(Nelson) 7/1/00 - 6/30/03
NIH/NCI
GSTPI promotor hypermethylation in human prostate cancer. Role of GSTPI inactivation in the pathogenesis of prostate cancer
- P01CA79862 (DeWeese) 7/1/99 to 6/30/05
NIH/NCI
“Mechanism Based Radiotherapy.”
- SBIR Grant (C.J. Frederickson) 6/1/02 to 5/31/05
NCI
“Zinc-based Early Detection of Prostate Cancer”
- DOD 531419/531421 (Simons, J.) 4/1/03-3/31/06
Prostate Cancer Consortium Grant
“Enhancing Adenoviral Gene Therapy Efficacy by Altering Therapeutic Potency”

Articles Published in Professional Journals

1. DeWeese, T.L. Hazuka, M.B., Hommel, D.J., Kinzie, J.J., Daniels, W.E. AIDS-related non-Hodgkin's Lymphoma: The Outcome and Efficacy of Radiation Therapy. *Int J Radiat Oncol Biol Phys* 20:803-808, 1991.
2. Carducci, M.A., DeWeese, T.L. Nelson, W.G., Simons, J.W., Sinibaldi, V., Eisenberger, M.A. Prostate Cancer Treatment Strategies Based on Tumor-Specific Biological Principles: Future Directions. *Semin Oncol* 23:56-62, 1996.
3. DeWeese, T.L., Walsh, J.C., Dillehay, L.E., Kessis, T.D., Hedrick, L., Cho, K.R., Nelson, W.G. Human Papillomavirus E6 and E7 Oncoproteins Alter Cell Cycle Progression But Not Radiosensitivity of Carcinoma Cells Treated with Low Dose-Rate Radiation. *Int J Radiat Oncol Biol Phys* 37:145-154 1997.
4. Cadeddu J.A., Partin, A.W., DeWeese, T.L, Walsh, P.C. Long-term Results of Radiation Therapy For Prostate Cancer Recurrence Following Radical Prostatectomy. *J Urol* 159:173-178, 1998.
5. DeWeese, T.L., Shipman, J.M., Dillehay, L.E., Nelson, W.G. Sensitivity of Human Prostatic Carcinoma Cell Lines to Low Dose Rate Radiation Exposure. *J Urol* 159:591-598, 1998.
6. Wurzler, K.K., DeWeese, T.L., Sebald, W., Reddi, A.H. Radiation-induced Impairment of Bone Healing can be Overcome by Recombinant Human Bone Morphogenetic Protein-2. *J Craniofacial Surg* 9:131-137, 1998.
7. Polascik, T., Pound, C.R., DeWeese, T.L., Walsh, P.C. Comparison of Radical Prostatectomy and ¹²⁵I Interstitial Radiotherapy for the Treatment of Clinically Localized Prostate Cancer: A 7-year Biochemical (PSA) Progression Analysis. *Urology* 51:884-889, 1998.
8. Healy, C.G., Simons, J.W., Carducci, M.A., DeWeese, T.L., Bartkowski, M., Tong, K.P., Bolton, W.E. Impaired Expression And Function Of Signal Transducing Zeta Chains In Peripheral T Cells And Natural Killer Cells In Patients With Prostate Cancer. *Cytometry* 32:109-119, 1998.
9. DeWeese, T.L., Shipman, J.M., Larrier, N.A., Buckley N.M., Kidd, L.R., Groopman, J.D., Cutler, R.G., Riele, H, Nelson W.G. Mouse Embryonic Stem Cells Carrying One or Two Defective *Msh2* Alleles Respond Abnormally to Oxidative Stress Inflicted by Low Level Radiation. *Proc Natl Acad Sci USA* 95:11915-11920, 1998.
10. Carducci, M.A., DeWeese, T.L., Nelson, J.B. PSA and Other Markers of Therapeutic Response. *Urol Clin North Am* 26:291-302, 1999.

11. Welsh, J., Torre, T.G., DeWeese, T.L., O'Reilly, S. Radiation Myositis. *Ann Oncol* 10:1105-1108, 1999.
12. Hurwitz, M.D., DeWeese, T.L., Zinreich, E., Epstein, J.I., Partin, A.P. Nuclear Morphometry Predicts Disease-free Interval for Clinically Localized Adenocarcinoma of the Prostate Treated with Definitive Radiation Therapy. *Int J Cancer* 84:594-597, 1999.
13. DeWeese, T.L., Song, Dan Y. Current Evidence for the Role of Combined Androgen Suppression and Radiation in the Treatment of Adenocarcinoma of the Prostate. *Urology* 55:169-174, 2000.
14. Chan, DY, Koniaris, LG, Magee, C., Ferrell, M., Solomon, S., Lee, BR., Anderson, JH., Smith, DO., Czapski, J., DeWeese, T., Choti, A., Kavoussi, LR. Feasibility of Ablating Normal Renal Parenchyma By Interstitial Photon Radiation Energy In a Canine Model. *J Endourol* 14:111-116, 2000.
15. Koniaris, L.G., Chan, D.Y., Magee, C., Solomon, S.B., Anderson, J.H., Smith, D.O., DeWeese, T.L., Kavoussi, L.R., Choti, M.A. Focal Hepatic Ablation Using Interstitial Photon Radiation Energy in a Canine Model. *J Am Coll Surg* 191:164-174, 2000.
16. Thurman, S.A., DeWeese, T.L. Multimodality Therapy for the Treatment of Muscle-Invasive Bladder Cancer. *Semin Urol Oncol* 18:313-322, 2000.
17. Li, S., DeWeese, T.L., Lee, D.J., Kleinberg, L., Wharam, M. A Dose Texture Plot in a Moving Frame as a New Planning Tool for Single-Plane Implants in HDR Brachytherapy. *Med Phys* 28: 97-103, 2001.
18. Solomon, S.B., Koniaris, L.G., Chan, D.Y., Magee, C.A., DeWeese, T.L., Kavoussi, L.R., Choti, M.A. Temporal CT Changes after Hepatic and Renal Interstitial Radiotherapy in a Canine Model. *JCAT* 25: 74-80, 2001.
19. DeWeese, T.L., Hruszkewycz, A.M., Marnett, L.J. Oxidative Stress in Chemoprevention Trials. *Urology* 57: 137-140, 2001.
20. Nelson, W.G., DeMarzo, A.M., DeWeese, T.L. The Molecular Pathogenesis of Prostate Cancer: Implications for Prostate Cancer Prevention. *Urology* 57: 39-45, 2001.
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Advisory Committees, Review Groups

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| 2005-present | Member, Winship Cancer Center External Advisory Board |
| 2006 | Chair, Review Committee, Department of Radiation Oncology, Instituto
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