

DANIEL C. SCHIFFNER, M.D.

EDUCATION

University of California, San Francisco 2001 – 2005
San Francisco, California
M. D.

Duke University 1996 – 2000
Durham, North Carolina
B. S. Biology (Minor: Chemistry; Concentration: Genetics)
Summa Cum Laude, with Departmental Distinction in Biology

GRADUATE MEDICAL EDUCATION

University of California, Irvine 2006 – 2010
Residency, Radiation Oncology
Chief Resident (2008-2009)
Integrated Training at City of Hope National Medical Center (Duarte, CA), UC Irvine (Orange, CA),
Long Beach Memorial Medical Center (Long Beach, CA), & VA Long Beach (Long Beach, CA)

University of Pittsburgh Center for Image-Guided Neurosurgery June, 2010
Principles and Practice of Gamma Knife Radiosurgery Training Course
Pittsburgh, Pennsylvania

Seattle Prostate Institute August, 2009
American Brachytherapy Society (ABS) Seattle Prostate Brachytherapy Fellowship
Seattle, Washington

California Pacific Medical Center 2005 – 2006
Internship, Internal Medicine
San Francisco, California

LICENSES AND CERTIFICATIONS

American Board of Radiology, Radiation Oncology, Board-Eligible
Medical Board of California, Licensed Physician
National Cancer Institute (NCI) Investigator
California Department of Health Radiography & Fluoroscopy Permit
Drug Enforcement Agency, Registered Physician
Basic Life Support, American Heart Association

PROFESSIONAL EXPERIENCE

Cancer Care Consultants

2010 – Present

Attending Physician, Radiation Oncology

Radiation Therapy Oncology Group (RTOG) Sub-Investigator

Primary Practice Locations at Northridge Hospital Medical Center and Gamma Knife Center (Northridge, California) and Los Angeles Cancer Institute (El Segundo, California)

Hospital Privileges at UCLA-Santa Monica, Northridge Hospital, Citrus Valley Med. Center, Marina del Rey Hospital, Centinela Hospital, Brotman Med. Center, Olympia Med. Center, and Good Samaritan Hospital

Roche Pharmaceuticals

1999 – 2001

Research Intern, Molecular Biology

Roche Bioscience Campus, Palo Alto, California

CLINICAL EXPERIENCE AND SKILLS

Stereotactic Radiosurgery (SRS) and Stereotactic Body Radiation Therapy (SBRT)

- Gamma Knife, CyberKnife, TomoTherapy, and linac-based systems (XKnife, Varian RapidArc)
- Completed Gamma Knife Radiosurgery Training Course at the University of Pittsburgh

High-Dose Rate (HDR) Brachytherapy (>300 cases)

- Extensive training at Long Beach Memorial (12 months with Drs. Syed & Puthawala) & UCI
- Interstitial: Gynecological, Prostate, Head and Neck, Breast, Sarcoma, Intrathoracic
- Intracavitary and Intraluminal: Gynecological, Esophagus, Endobronchial, Nasopharynx, Biliary
- Breast Brachytherapy: MammoSite, Contura, SAVI, and interstitial techniques

Intensity-Modulated Radiation Therapy (IMRT) & 3-Dimensional Conformal Radiotherapy

- TomoTherapy Hi-Art and Varian RapidArc, Clinac iX, & Trilogy linear accelerator systems
- CT-based virtual simulation and conventional fluoroscopy-based simulation
- Prostate, Whole & Partial Breast Irradiation, Head & Neck, CNS, GI, Gynecological, Lung

Image-Guided Radiation Therapy (IGRT)

- MVCT-based IGRT with TomoTherapy Hi-Art system
- Cone-Beam CT with Varian Trilogy and Clinac iX platforms
- Electronic Portal Imaging Device (EPID) with implanted gold seed fiducial markers
- Calypso 4D Localization and Tracking with Beacon Transponders

Low-Dose Rate (LDR) Permanent Seed Prostate Brachytherapy (¹²⁵I and ¹⁰³Pd)

- Training at Long Beach Memorial, City of Hope, and the American Brachytherapy Society (ABS) Seattle Prostate Brachytherapy Fellowship at the Seattle Prostate Institute

Pediatric Radiation Oncology

- Training at two COG member sites (City of Hope and Miller Children's Hospital in Long Beach)

Selective Internal Radiation Therapy (SIRT)

- Therasphere and SIR-Spheres treatment of tumors of the liver and bile ducts

Hyperthermia (Microwave, Radiofrequency, and Superficial Applications)

Radioimmunotherapy and ¹³¹I Oral Therapy

Total Body Irradiation (Conventional) and Total Marrow Irradiation (TomoTherapy)

Treatment Planning and Information Software

- Varian: Eclipse, BrachyVision, ARIA, VARiS Vision
- TomoTherapy: TomoTherapy Planning Station, TomoTherapy Planned Adaptive
- Others: Leksell GammaPlan, Oncentra Brachy, Pinnacle, Cyberknife MultiPlan, MIMvista

HONORS AND AWARDS

RSNA Roentgen Resident Research Award for Radiation Oncology	2010
Chief Resident, UC Irvine Integrated Residency Program, Radiation Oncology	2008 – 2009
Seattle Prostate Brachytherapy Fellowship, American Brachytherapy Society	2009
First Place Award, City of Hope Medical Center Annual Research Symposium	2008
Roy W. Howard Family Fellowship, UCSF Department of Radiation Oncology	2004
President's Award for Educational Exhibit, Society of Thoracic Radiology	2003
Certificate of Merit for Scientific Abstract Poster, Society of Thoracic Radiology	2003
Shimadzu Medical Student Research Award, RSNA Annual Meeting	2002
Student Research Training Fellowship, UCSF School of Medicine	2002
Graduation Summa Cum Laude, Bachelor of Science, Duke University	2000
Graduation with Distinction in Biology, Duke University	2000
Dean's List with Distinction, Duke University	1997 – 2000
Golden Key National Honor Society	1999
Howard Hughes Medical Institute Biology Forum Fellowship	1998 – 1999

RESEARCH EXPERIENCE

2011 – Present **Radiation Therapy Oncology Group (RTOG)**

- Sub-Investigator for Phase II & III clinical trials in prostate, breast, and lung cancers

2009 – 2010 **University of California, Irvine**

- The use of RapidArc volumetric modulated arc therapy (VMAT) to deliver stereotactic radiosurgery and stereotactic body radiotherapy to intracranial and extracranial targets

2007 – 2009 **City of Hope National Medical Center**

- Image-guided radiation therapy to treat esophageal cancer with IMRT
- The use of helical tomotherapy for total and partial scalp irradiation and in the treatment of other complex superficial malignancies of the scalp, head, neck, torso, and pelvis

2004 – 2006 **UCSF Department of Radiation Oncology**

Research Advisors: Drs. Alexander Gottschalk and Mack Roach, III

- Image-guided radiotherapy using daily portal imaging of implanted gold seed fiducial markers to treat prostate cancer in the post-prostatectomy setting
- Interfraction motion of the prostate bed after prostatectomy

2001 – 2002 **UCSF Department of Diagnostic Radiology**

Research Advisors: Drs. Gautham Reddy and Charles Higgins

- Diagnostic accuracy of computed tomography and magnetic resonance imaging in the diagnosis of congenital cardiopulmonary anomalies

1999 – 2001 **Roche Pharmaceuticals, Palo Alto Bioscience Campus**

- Discovered novel chloride channel involved in cystic fibrosis, chronic bronchitis, and asthma
- Developed antisense RNA assays for use in studying gene targets for drug discovery

1998 – 1999 **Duke University, Department of Medical Oncology**

Research Advisor: Dr. Russel Kaufman

- Investigated tissue expression pattern of K12 with immunohistochemistry and in situ hybridization

PEER-REVIEWED PUBLICATIONS

1. Han C, **Schiffner DC**, Schultheiss TE, Chen YJ, Liu A, Wong JYC. "Residual setup errors and dose variations with less-than-daily image guided patient setup in external beam radiotherapy for esophageal cancer." *Radiotherapy and Oncology*. 2011.
2. Roa D, **Schiffner DC**, Zhang J, Wong J, Kuo J, Ramsinghani N, Al-Ghazi M. "The use of RapidArc volumetric modulated arc therapy to deliver stereotactic radiosurgery and stereotactic body radiotherapy to intracranial and extracranial targets." *Medical Dosimetry*. 2011.
3. **Schiffner DC**, Gottschalk AR, Lometti M, Aubin M, Pouliot J, Speight J, Hsu IC, Shinohara K, Roach M 3rd. "Daily electronic portal imaging of implanted gold seed fiducials in patients undergoing radiotherapy after radical prostatectomy." *International Journal of Radiation Oncology*Biophysics*. 2007 Feb 1;67(2):610-9.
4. Klein HS and **Schiffner DC**. "The current debate about the origins of the Paleoindians of America." *Journal of Social History* 2003, 37: 483-492.
5. Klein HS and **Schiffner DC**. "El origen de los Amerindios: debates actuales." *Revista de Indias*. 2003, 63 (227): 19-30.

ABSTRACTS AND MEETING PRESENTATIONS

INVITED ORAL PRESENTATIONS:

1. "State of the Art Radiation Oncology 2011: Stereotactic Body Radiation Therapy." Grand Rounds, Department of Medicine, Northridge Hospital Medical Center, 2011.
2. "Accelerated Partial Breast Irradiation Using HDR Brachytherapy." UC Irvine Department of Radiation Oncology, 2011.
3. "Short-Course Stereotactic Body Radiation Therapy (SBRT) to Treat Tumors of the Lung, CNS, and GI Tract." 21st Century Oncology-Varian Dinner Event, 2011.
4. "Management of Early-Stage Breast Cancer with Accelerated Partial Breast Irradiation and High-Dose-Rate Brachytherapy." Inglewood Imaging Oncology Dinner Symposium, 2011.
5. "The Use of Helical Tomotherapy To Treat Challenging Cutaneous Malignancies." Annual Meeting of the American College of Surgeons (ACS), Southern California Section, 2009.

INTERNATIONAL PRESENTATIONS:

1. **Schiffner DC**, Chen YJ, Schultheiss TE, Han C, Liu A, Pezner RD, Vora NL, Wong JYC. "The Utility of Helical Tomotherapy in the Treatment of Complex Superficial Malignancies of the Head, Neck, Torso, and Pelvis: A Clinical Validation Study." **Oral presentation** at the 27th Annual Meeting of the European Society for Therapeutic Radiology & Oncology (ESTRO), 2008 (Gothenburg, Sweden).

NATIONAL PRESENTATIONS:

1. Roa D, Zhang J, **Schiffner DC**, Wong J, Kuo J, Ramsinghani N, Al-Ghazi M. "Special Radiation Treatment Procedures Using RapidArc." **Poster presentation** at the 2010 American Association of Physicists in Medicine (AAPM) Annual Meeting (Philadelphia, PA).
2. Zhang J, Dietrich S, **Schiffner DC**, Wong J, Kuo J, Ramsinghani N, Al-Ghazi M, Roa D. "Comprehensive RapidArc Treatment Planning and Quality Assurance for Head and Neck Cancers." **Poster presentation** at the 2010 American Association of Physicists in Medicine (AAPM) Annual Meeting (Philadelphia, PA).
3. **Schiffner DC**, Roa D, Kuo JV, Ramsinghani NS, Al-Ghazi M. "The Use of RapidArc Volumetric Modulated Arc Therapy To Deliver Stereotactic Radiosurgery And Stereotactic Body Radiotherapy To Intracranial And Extracranial Targets." **Oral presentation** at the 51st Annual Meeting of the American Society for Therapeutic Radiology & Oncology (ASTRO), 2009 (Chicago, IL).
4. **Schiffner DC**, Schultheiss TE, Chen YJ, Han C, Liu A, Wong JYC. "Should daily image-guided radiation therapy be used in the treatment of esophageal cancer?" **Poster presentation** at the 2009 American Society of Clinical Oncology (ASCO) Gastrointestinal Cancer Symposium (San Francisco, CA).
5. **Schiffner DC**, Chen YJ, Schultheiss TE, Han C, Liu A, Pezner RD, Vora NL, Wong JYC. "The Use of Helical Tomotherapy for Total and Partial Scalp Irradiation: A Clinical Validation Study". **Poster presentation** at the 2009 American College of Radiation Oncology (ACRO) Annual Meeting (Las Vegas, NV).
6. **Schiffner DC**, Schultheiss TE, Chen YJ, Han C, Liu A, Wong JYC. "Can Less-Than-Daily Image Guidance Be Used To Treat Esophageal Cancer With Intensity-Modulated Radiation Therapy: A Study of Patient Positioning Errors and Their Dosimetric Consequences." **Poster presentation** at the 50th Annual Meeting of the American Society for Therapeutic Radiology & Oncology (ASTRO), 2008 (Boston, MA).
7. **Schiffner DC**, Gottschalk AR, Lometti M, Aubin M, Pouliot J, Speight J, Hsu IC, Shinohara K, Roach M. "Should Daily Image-Guided Target Localization be Used in the Delivery of Adjuvant and Salvage Radiotherapy After Radical Prostatectomy?" **Poster presentation** at the 2006 American Society of Clinical Oncology (ASCO) Prostate Cancer Symposium (San Francisco, CA).
8. **Schiffner DC**, Gottschalk AR, Lometti M, Aubin M, Pouliot J, Speight J, Hsu IC, Shinohara K, Roach M. "Daily Electronic Portal Imaging of Implanted Gold Seed Fiducials in Patients Undergoing Radiotherapy After Radical Prostatectomy." **Poster presentation** at the 47th Annual Meeting of the American Society for Therapeutic Radiology & Oncology (ASTRO), 2005 (Denver, CO).
9. **Schiffner DC**, Reddy GP, Litt HI, Tan C, Araoz PA, Breen JF, Gotway MB, Pujadas S, Weber OM, Higgins CB. "Coronary artery anomalies: classification and diagnosis." **Poster presentation** at the 2003 Society of Thoracic Radiology Annual Meeting (Miami, FL). Awarded Certificate of Merit and President's Award for Educational Exhibit.
10. Slentz-Kesler K, Cao Y, **Schiffner DC**, and Kaufman RE. "The characterization of K12, a novel factor that is secreted from breast cancer cell lines." **Poster presentation** at the 1999 American Association of Cancer Research (AACR) Annual Meeting (Philadelphia, PA).

LOCAL AND REGIONAL PRESENTATIONS:

1. UC Irvine Chao Comprehensive Cancer Center Conference, 2009
2. City of Hope National Medical Center Annual Research Symposium, 2008
3. California Pacific Medical Center Scholarly Activity Grand Rounds, 2006
4. UCSF Medical Student Research Symposium, 2002
5. Duke University Commencement Research Presentation, 2000
6. Duke University Honors Thesis Program in Biology Research Symposium, 2000
7. Howard Hughes Medical Institute Biology Forum Fellowship Symposium, 1999

LEADERSHIP AND SERVICE

Board of Directors, Southern California Radiation Oncology Society (SCROS)	2011 - Present
Continuing Education Committee, Los Angeles Radiological Society (LARS)	2011 - Present
Planning Committee, LARS Annual Midwinter Radiation Oncology Conference	2011 - Present
Subcommittee on Radiation Oncology, Los Angeles Radiological Society (LARS)	2011 - Present
Cancer Committee, Northridge Hospital Medical Center	2010 - Present
Palliative Care Committee, Northridge Hospital Medical Center	2010 - Present
Instructor, Long Beach Memorial Annual HDR Brachytherapy Training Course	2010
Chief Resident, UC Irvine Integrated Residency Program, Radiation Oncology	2008 - 2009
Resident Curriculum Advisory Committee, California Pacific Medical Center	2005 - 2006
Curriculum Adviser and Instructor, Cancer Block, UCSF School of Medicine	2004 - 2005
Volunteer Health Care Provider, UCSF Homeless Clinic	2001 - 2002
UCSF School of Medicine Curriculum Review Subcommittee	2001 - 2002
Physician Career Mentor, San Francisco School-to-Career Partnership	2001 - 2002
Inpatient Tutor, Hospital School Tutors Program, Duke University Hospital	1999 - 2000
Patient Advocate, Department of Medical Oncology, Duke University Hospital	1997 - 1998

LANGUAGES

Spanish

PROFESSIONAL ORGANIZATIONS

American College of Radiation Oncology (ACRO)	2009 - Present
American Society of Clinical Oncology (ASCO)	2007 - Present
American Society for Radiation Oncology (ASTRO)	2006 - Present
American College of Radiology (ACR)	2006 - Present
American Brachytherapy Society (ABS)	2006 - Present
Los Angeles Radiological Society (LARS)	2006 - Present
American Medical Association (AMA)	2005 - Present

INTERESTS

Travel, Scuba diving, Reading novels, Skiing, Trail running, Tennis, Horseback riding, Cinema