University of California San Francisco Prepared March 25, 2010
CURRICULUM VITAE

Name: Henry Charles Sánchez, M.D., M.S.

Position: Professor of Clinical Pathology, Step II
Department of Pathology
School of Medicine
Department of Cell and Tissue Biology
School of Dentistry

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EDUCATION:

1974-1978	Stanford University	B.S. with Honors	Biological Sciences
1978-1985	USC School of Medicine	M.D.	
1980-1982	USC School of Medicine	M.S.	Exper. Pathology
1985-1986	USC School of Medicine		Cancer Research
1986-1987	Los Angeles County/USC Medical Center	Intern	Medicine
1987-1988	Los Angeles County/USC Medical Center	Resident	Pathology
1988-1989	University of California, San Francisco	Resident	Pathology
1989-1990	University of California, San Francisco	Fellow	Surgical Pathology
1990-1991	University of California, San Francisco	Research Fellow	Pathology
1991-1992	University of California, San Francisco	NIH Post-Doctoral Fellow	Pathology

LICENSE, CERTIFICATION:

1988	Medical licensure, California
1992	Board Certification in Anatomic Pathology, American Board of Pathology

PRINCIPAL POSITIONS HELD:

1992-1993	University of California, San Francisco	Clinical Instructor	Pathology
1993-1999	University of California, San Francisco	Assistant Professor	Pathology
1999-2005	University of California, San Francisco	Associate Professor	Pathology
2005-now	University of California, San Francisco	Professor	Clinical Pathology
2005-now	University of California, San Francisco	Professor	Dentistry

FELLOWSHIPS:

1974-1978	Stanford University	California Student Fellowship
1978-80	University of Southern California School of Medicine	National Medical Fellowship
1979	University of Southern California Cancer Center	Summer Oncology Fellowship
1983-88	University of Southern California School of Medicine Department of Pathology	Research Assistant Fellowship
1984	University of Southern California School of Medicine	Commonwealth Fund Fellowship
1984-85	University of Southern California Cancer Center	Feiger Research Fellowship
1985	University of Southern California School of Medicine Childrens Hospital of Los Angeles	Summer Clinical Assistant Fellowship
1985-86	USC Cancer Center and School of Medicine	Smooth Research Fellowship
1990-1991	University of California, San Francisco Research Department of Pathology	Anatomic Pathology Fellowship
1991-1992	University of California, San Francisco, SFGH	NIH AIDS Postdoctoral Fellowship
2000-2001	University of California, San Francisco School of Medicine Faculty Teaching Fellowship Teaching Scholars Program	

HONORS & AWARDS:

1974	First Place in Twelfth Grade Biological Sciences, Annual San Francisco Bay Area Science Fair Title: *The Effect of Amino Acids on the Rate of Regeneration of Hydra*.
1978	Outstanding First Year Medical Student in Gross Anatomy, University of Southern California School of Medicine
1991	Young Investigator Award , Academy of Clinical Laboratory Physicians and Scientists
1994	Elected to Alpha Omega Alpha Medical Honor Society as a faculty member by Alpha Omega Alpha members of the Class of 1994, University of California, San Francisco School of Medicine (May 5)

2001 to present — Elected to The Haile T. Debas Academy of Medical Educators as a founding member for outstanding accomplishment in medical education, University of California, San Francisco School of Medicine

2004 to 2010 — Appointed to The Endowed Chair in Pathology Medical Student Education, University of California, San Francisco School of Medicine, November 19, 2004 to June 30, 2010.

KEYWORDS/AREAS OF INTEREST

Anatomic pathology, autopsy pathology, medical/dental /pharmacy/physical therapy/graduate education, carcinogenesis, prion diseases, digital photography, computer technology in education (podcasting, audience response system and digital virtual microscopy), medical education research, curriculum design, pathology board reviews for medicine, dentistry and osteopathic medicine, mentoring

PROFESSIONAL ACTIVITIES

CLINICAL

1992 to present — Attending, Autopsy Service, UCSF: I attend from 4 months of the year on this service, supervising 2-5 house staff and medical students.

2000 to present — **Program Director**, Department of Pathology Post-Sophomore Fellowship, University of California, San Francisco School of Medicine (July)

SUMMARY OF CLINICAL ACTIVITIES

My time is spent teaching and signing-out autopsy cases with pathology residents, post-sophomore fellows, and rotating medical students. I attend weekly Tuesday morning Gross Autopsy Conference with pathology residents and other attendings on the autopsy service, and twice a month Autopsy Histopathology conference with pathology residents and attendings. I also present autopsy cases to various housestaff and attending conferences at UCSF Moffitt Hospital including Cardiology Grand Rounds, UCSF Moffitt ICU Morbidity and Mortality (10 to 12/year). Other conferences occasionally include Pediatric ICU Morbidity and Mortality, Pulmonary Grand Rounds and Radiation/Oncology Teaching Conference.

PROFESSIONAL ORGANIZATIONS

1980-1993 — American Association for the Advancement of Science

1996 to present — UCSF Faculty Association

1998 to present — Member of the UCSF Academic Senate

INVITED PRESENTATIONS

REGIONAL

1993 to 2007, 2010	Stanford University, USMLE Step 1 pathology board exam review lectures.
2001	Chicanos & Latinos for Health Education at University of California, San Francisco, Keynote speaker for the Health Professions High School Recruitment Day
2003	GME Grand Rounds: "Teaching How to Teach: Approaches to the challenging student" at University of California, San Francisco
2004	Chicanos & Latinos for Health Education at University of California, San Francisco, Keynote speaker for the Health Professions High School and College Recruitment Day
2006	State Latino Medical Student Association Annual Conference, Panelist "Improving Latino Health Through Academic Careers", Stanford University School of Medicine
2007	UCSF Mini Medical School for the Public, Prologue: Basic Principles Underlying Modern Medicine – From Genes to Body Systems. Entitled: "CSI: Fact vs Fiction from the Perspective of a Pathologist: What You See on TV May Not Be True."(March 27)
2007	UCSF Mini Medical School for the Public, Metabolism & Nutrition: The Science Behind Healthy Easting. Entitled: "The New Epidemic: The "Inside" Story of Obesity."(November 15)
2009	Association of Pathology Chairs 2009 Annual Meeting, participate in a panel discussion entitled: " Different Approaches to an Integrated Curriculum – An Interactive Session", July 16, 2009
2010	Premed Speaker at San Francisco State University. Entitled: "Who is the Pathologist?" Sponsored by the San Francisco State University Post Baccalaureate (March 1)

UNIVERSITY AND PUBLIC SERVICE

UNIVERSITY SERVICE

SYSTEMWIDE

2002-2004	UC Academic Senate Committee on Undergraduate Preparatory Education, UCSF Representative
2004-2007	UC Academic Senate Committee on Education Policy, UCSF Representative

UCSF CAMPUS-WIDE

1995-1999	Quality Assurance Committee, University of California-Mount Zion Medical Center
2002 and 2003	**Chair**, Ad hoc Review Committee for Academic Promotions, University of California, San Francisco
2002 to present	Committee on Educational Policy at University of California, San Francisco Academic Senate, **Vice-Chair** 2004-05, **Chair** 2005-06 and 2006-07 and Guest 2007-08
2004 and 2006	Member, Ad hoc Review Committee for Academic Promotions, University of California, San Francisco
2007 to 2009	Member, Selection Committee for the Academic Senate Distinction in Teaching Award
2007 to present	Member, UCSF Academic Information Systems Board (AISB)
2009 to present	Student Health Advisory Committee, **Chair**.

SCHOOL OF MEDICINE

1990-92 and 1995-98	Admissions Committee, University of California, San Francisco School of Medicine
1991-1993	Hispanic Center of Excellence, Faculty Development Coordinator, University of California, San Francisco School of Medicine
1993-96	Joint Faculty Committee, University of California, Berkeley-San Francisco Joint Medical Program
1997-1999	First Year Course Committee, University of California, San Francisco School of Medicine
1992-2001	Second Year Course Committee, University of California San Francisco School of Medicine
1995-2001	Student Faculty Liaison Committee, University of California, San Francisco School of Medicine
1995-99	Subject Area Committee - Cancer, **Co-Chair**, University of California, San Francisco School of Medicine
1996-99	Subject Area Committee - Cancer, **Chair**, University of California, San Francisco School of Medicine
1997-99	Foundations of Patient Care Advisory Committee Meeting, University of California, San Francisco School of Medicine

1997-2001	Ad Hoc Committee of the Committee on Curriculum and Educational Policy, University of California, San Francisco School of Medicine
1998-1999	Gender and Diversity Committee, University of California, San Francisco School of Medicine
2000-2001	Member, Cancer block, new curriculum, University of California, San Francisco School of Medicine
2000-2002	**Chair**, Integration and Consolidation block, New Curriculum, Second Year, University of California, San Francisco School of Medicine
2000-2002	Member, Essential Core Steering Committee, new curriculum, University of California, San Francisco School of Medicine
2001-present	Member, Essential Core Course Committee, University of California, San Francisco School of Medicine
2002-2005	Member, The Haile T. Debas Academy of Medical Educators Innovations Funding Committee, University of California, San Francisco
2002-2005	Member, The Haile T. Debas Academy of Medical Educators Innovations Funding Committee, University of California, San Francisco
2005-2009	Member, The Haile T. Debas Academy of Medical Educators Faculty Development Committee, University of California, San Francisco
2001-2002	**Co-Director**, Cancer block, New Curriculum, First Year, University of California, San Francisco School of Medicine
2002-2007	**Co-Director**, Metabolism and Nutrition block, New Curriculum, Second Year, University of California, San Francisco School of Medicine
2002-2006	**Co-Director**, Integration and Consolidation block, Second Year, University of California, San Francisco School of Medicine
2003 to present	Committee on Electives, University of California, San Francisco School of Medicine
2007 to 2009	**Co-Director**, Epilogue block, Second Year, University of California, San Francisco School of Medicine

SCHOOL OF DENTISTRY

1992 to present	Basic Sciences Coordinating Committee, University of California, San Francisco School of Dentistry
1992 to present	Student Status Committee, University of California, San Francisco School of Dentistry
1994	CSCC Subcommittee on Instruction in Medicine and Physical Diagnosis to Dental Students, University of California, San Francisco School of Dentistry
2002 to present	Member, Human Pathophysiology Committee, new curriculum, University of California, San Francisco, School of Dentistry
2004 to present	**Director**, Pathology Education in the School of Dentistry for BMS 116, 117, 118 and 126
1999 to present	Member, Physical Therapy Academic Review Committee

DEPARTMENTAL SERVICE

1992-1993	Biosafety Committee, **Chair**, Anatomic Pathology, University of California, San Francisco
1998-2002	Developed web site for the Department of Pathology, UCSF School of Medicine
2000-2001	Interviewed anatomic pathology residency applicants, Department of Pathology, UCSF School of Medicine
2001 to present	Training faculty, fellows, residents and staff in digital photography and work flow

PUBLIC SERVICE

1992-1993	Center of Excellence, Consultant, University of Southern California School of Medicine
1999 to present	Presenter and lecturer, UCSF Public Service Programs, an outreach program to Bay Area elementary and middle schools
2005 to present	Provide gross organ specimens for various University of California San Francisco first and second year medical students run out reach programs – Missing Link
2006 to 2008	Present normal and abnormal gross organs to high school and college students interested in medicine, Faces for the Future, Health Professions Internship Partnership Program, sponsored by Children's Hospital & Research Center Oakland, director by Dr. Tomas Magana (Graduate of UCSF School of Medicine).

2004 to present — Present normal and abnormal gross organs to graduating high school students interested in medicine, Fresno Sunny Academy Magnet High School (April)

Oral presentations to visiting local Bay Area elementary school students, University of California San Francisco Medical Center, Patient Relations:

February 23, 1999 — **"The Brain" Fieldtrip**; Topics to be covered with hands-on portion include: Normal child and adult brain; Abnormal brains: Alzheimer, Multiple Sclerosis, Abscess, Cerebral Vascular Accident (Stroke), Subdural Hematoma, Brain Tumor; 4th Grade Students

January 25, 2000 — **"The Immunology" Fieldtrip;** Topics to be covered clinical scenarios related to actual viruses/bacteria. See examples and discuss the impact of cancer, HIV, TB, etc. on the immune system; 4th Grade students

March 2000 — **"The Brain" Fieldtrip**; Topics to be covered with hands-on portion include: Normal child and adult brain; Abnormal brains: Alzheimer, Multiple Sclerosis, Abscess, Cerebral Vascular Accident (Stroke), Subdural Hematoma, Brain Tumor; 4th Grade Students

March 7, 2000 — **"How do Health Care Professionals Determine a Disease Process?: Pathology …What's normal and what's not?** See examples/specimens of normal and abnormal organs due to the impact of cancer, HIV, TB, etc.**;** 5th Grade students

March 14, 2000 — **"The Heart and Lungs" Fieldtrip**; Topics to be covered include: Normal child and adult hearts and lungs; Abnormal hearts: Heart Attack, Artificial Valves, etc.; Abnormal lungs: Cancer, Emphysema, etc.; 6th Grade students

January 17, 2001 — **"The Beginning of Life, Microbiology, and Research Process" Fieldtrip**; Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; genetic disorders: Downs Syndrome, Cystic Fibrosis, predisposition to Multiple Sclerosis, Alpha-1-anti-trypson deficiency; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 7th Grade Class

February 27, 2001 — **"The Beginning of Life, Microbiology, and Research Process" Fieldtrip**; Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; genetic disorders: Downs Syndrome, Cystic Fibrosis, predisposition to Multiple Sclerosis, Alpha-1-anti-trypson deficiency; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 6th Grade Class

March 21, 2001 **"The Beginning of Life, Microbiology, and Research Process" Fieldtrip**; Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; genetic disorders: Downs Syndrome, Cystic Fibrosis, predisposition to Multiple Sclerosis, Alpha-1-anti-trypson deficiency; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 6th Grade Class

April 6, 2001 **"The Brain" Fieldtrip**; Topics to be covered with hands-on portion include: Normal child and adult brain; Abnormal brains: Alzheimer, Multiple Sclerosis, Abscess, Cerebral Vascular Accident (Stroke), Subdural Hematoma, Brain Tumor; 4th Grade Students

May 2, 2001 **"An In-Depth Look at the Brain" Fieldtrip**; Children will be able to touch and see a real sheep's brain and relate it back to the major lobes of the brain that were reviewed earlier. Topics to be covered with hands-on portion include: Normal child and adult brain; Abnormal brains: Alzheimer, Multiple Sclerosis, Abscess; Cerebral Vascular Accident (Stroke); Subdural Hematoma; Brain Tumor; Sheep Brain Dissection; 6th Grade Class

May 9, 2001 **"The Beginning of Life, Microbiology, and Research Process" Fieldtrip**; Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; genetic disorders: Downs Syndrome, Cystic Fibrosis, predisposition to Multiple Sclerosis, Alpha-1-anti-trypson deficiency; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 7th Grade Class

November 5, 2001 **"The Great Brain Tease" Fieldtrip**; Children will be able to touch and see a real sheep's brain and relate it back to the major lobes of the brain that were reviewed earlier. Topics to be covered with hands-on portion include: Normal child and adult brain; Abnormal brains: Alzheimer, Multiple Sclerosis, Abscess; Cerebral Vascular Accident (Stroke); Subdural Hematoma; Brain Tumor; Sheep Brain Dissection; 6th Grade Class

November 19, 2001 **"The Beginning of Life, Microbiology, and Research Process" Fieldtrip**; Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; genetic disorders: Downs Syndrome, Cystic Fibrosis, predisposition to Multiple Sclerosis, Alpha-1-anti-trypson deficiency; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 7th Grade Class

February 19, 2002 **"The Importance of a Healthy Heart" Fieldtrip**; Pathology to be reviewed with hands-on interaction include: Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, Transposition of Great Vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use. Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 5th Grade Class

February 11, 2003 **"Breaks, Strains & Sprains" Fieldtrip**; Topics to be covered include: Normal bone growth and development; Metabolic conditions of a human skeleton; Osteoarthritis - Joint wear and tear; Bone fractures - Compression fractures; Intervertebral disc disease; Knee and shoulder problems; Normal and abnormal spines; 6th Grade Class

June 25, 2003 **DAY OF MEDICINE - UCB Academic Talent Development Program: What it means and takes to be a pathologist**. Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 6th Grade Class

June 30, 2004 **DAY OF MEDICINE - UCB Academic Talent Development Program: What it means and takes to be a pathologist**. Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use - Chemistry test for iron in the liver; Normal lungs, Smoker's lungs; 6th Grade Class

April 28, 2005 **Bring Your Daughters and Sons to Work** - Two 1 ½ hour sessions with acutual human organs including normal lung, emphysematous lung, crack cocaine lung, lung cancer, normal human and cow hearts, hypertensive cardiomyopathy, acute myocardial infarct, normal aorta, aorta with atherosclerotic aneurysm, normal liver, cirrhotic liver, hemochromatosis of the liver, normal skull, Paget disease of bone, large leiomyoma of the uterus and ovarian dermoid cyst. Each child was given the opportunity to handle the normal and diseased organs; 4 th and 5 th grade students (total – 32).

April 27, 2006 **Bring Your Daughters and Sons to Work** - Two 1 ½ hour sessions with acutual human organs including normal lung, emphysematous lung, crack cocaine lung, lung cancer, normal human and cow hearts, hypertensive cardiomyopathy, , normal aorta, aorta with atherosclerotic aneurysm, normal liver, cirrhotic liver, hemochromatosis of the liver, normal skull, Paget disease of bone, large

leiomyoma of the uterus and ovarian dermoid cyst. Each child was given the opportunity to handle the normal and diseased organs; 4 th and 5 th grade students (total – 30).

June 30, 2006 **DAY OF MEDICINE - UCB Academic Talent Development Program: What it means and takes to be a pathologist**. Pathology to be reviewed with hands-on interaction include: Normal child and adult brain; Normal heart development: 36 week old heart, 12 year old heart, and adult specimen; Genetic Heart defects: tetralogy of Fallout, atrial septal defect, transposition of vessels; Acquire heart disease from atherosclerosis; Normal liver; Hemochromotosis – iron utilization problem in the liver, complications with alcohol use; Normal lungs, Smoker's lungs, Crack Cocaine lung; 6th Grade Class.

April 26, 2007 **Bring Your Daughters and Sons to Work** - Two 1 ½ hour sessions with acutual human organs including normal lung, emphysematous lung, crack cocaine lung, lung cancer, normal human and cow hearts, hypertensive cardiomyopathy, , normal aorta, aorta with atherosclerotic aneurysm, normal liver, cirrhotic liver, hemochromatosis of the liver, normal skull, Paget disease of bone, large leiomyoma of the uterus and ovarian dermoid cyst. Each child was given the opportunity to handle the normal and diseased organs; 4 th and 5 th grade students (total – 32).

April 24, 2008 **Bring Your Daughters and Sons to Work** - Two 1 ½ hour sessions with acutual human organs including normal lung, emphysematous lung, crack cocaine lung, lung cancer, normal human and cow hearts, hypertensive cardiomyopathy, , normal aorta, aorta with atherosclerotic aneurysm, normal liver, cirrhotic liver, hemochromatosis of the liver, normal skull, Paget disease of bone, large leiomyoma of the uterus and ovarian dermoid cyst. Each child was given the opportunity to handle the normal and diseased organs; 4 th and 5 th grade students (total – 46).

April 1, 2009 **Parkside Intermediate School Biology Science Class** - Seven 38 minute sessions with acutual human organs including normal lung, emphysematous lung, crack cocaine lung, lung cancer, normal human and cow hearts, hypertensive cardiomyopathy, normal aorta, aorta with atherosclerotic aneurysm, normal liver, cirrhotic liver, normal small and large intestine, colon with polyposis. Each child was given the opportunity to handle the normal and diseased organs; 7 th grade students (total – 250).

May 8, 2009 **Inside UCSF Outreach Program for College Students** – 1 hour session with with acutual human organs including normal lung, emphysematous lung, crack cocaine lung, lung cancer, normal human and cow hearts, hypertensive cardiomyopathy, , normal aorta, aorta with atherosclerotic aneurysm, normal liver, cirrhotic liver, hemochromatosis of the liver, normal skull, Paget disease of bone, large leiomyoma of the uterus and ovarian dermoid cyst. Each student was given the opportunity to handle the normal and diseased organs; sophomore and junior college students interested in medicine (total – 18).

May 20, 2009 **Parkside Intermediate School Biology Science Class** - Seven 48 minute sessions with acutual human organs including normal and abnormal male and female reproductive organs including normal uterus, fallopian tubes and ovaries, testis, large leiomyoma of the uterus and ovarian dermoid cyst. Each child was given the opportunity to handle the normal and diseased organs; 7 th grade students (total – 250).

November 3, 2009 Elected to the San Bruno Park School District Governing Board, San Mateo County, **Governing Board Member** (four year term) which involving overseeing district-wide education policy, fiscal management of an annual 20 million dollar budget, and evaluating/academic accountability of the district's superintendent district-wide education plan

TEACHING and MENTORING

Quarter	Academic Year	Course Number and Title	Teaching Contribution	Units	Class Size
Fall	1998-2003	Pathology 126; General Pathology (Dentistry)	Course Director; lecturer	4	80
Fall	1998-2003	Pathology 160; General Pathology (Dental Hygiene)	Course Director; lecturer	2	16
Fall	1998-2006	Pathology 135; General Pathology (Pharmacy)	Course Director; lecturer	3	120
Fall	1998-2006	Pathology 135.01; General Pathology (Physical Therapy)	Course Director; lecturer	3	32
Fall	1998-2001	Pathology 101; General, Cardiovascular, Respiratory and Renal (Medicine)	Co-Director, lecturer, lab leader	4	140
Winter	1998-2002	Pathology 102; Gastrointestinal Tract, Liver, Gallbladder, Pancreas, Reproductive Tract, Neuropathology (Medicine)	Co-Director, lecturer, lab leader	3	140
Spring	1998-2002	Pathology 103; Hematologic malignancies, Bone and Joint Diseases, Endocrine and Skin (Medicine)	Co-Director, lecturer, lab leader	3	140
Fall	2003-2004	IDS 101; Prologue/FPC	Lecturer, lab instructor	9	140
Fall	2001-2003	IDS 102; Major Organ Systems - CV	Lab instructor	7	140
Fall	2002-2004	IDS 105; Immunity, Infection & Inflammation	Path lab instructor	7	140
Fall Winter	2002-2006 2006-2009	IDS 106; Metabolism and Nutrition	Path lab organizer and instructor	10	140
Winter	2002	IDS 103; Cancer	Path lab organizer and instructor	11	140
Winter	2002-2006	IDS 108; Integration & Consolidation	Director, lecturer, lab instructor	5	140
Fall	2004-2009	BMS 116; Structure of Cells, Tissues, and Organs (D1)	Co-Director, lecturer	10	80
Fall	2004-2009	BMS 126; Organ Systems and Human Pathophysiology (Dentistry – second year students)	Co-Director, lecturer	6.5	88
Spring	1998-2009	Path 198; Independent Study for the USMLE Step 1 exam	Advisor, mentor, instructor	1-5	4-20
Winter	2000,	Biochem 297 ; Molecular	Lecturer and lab organizer and instructor	4	10-16

	2002, 2004, 2007	Pathology and Biology of Neoplasia (graduate students)			
Winter	2007, 2008, 2009	IDS 107; Life Cycle/Epilogue	Co-Director, lecture and organizer	14	149
Winter	2004-2009	BMS 117; Microbiology and Immunology	Lab – Immunopathology and organizer	2	88
Spring	2004-2009	BMS 118; Organs Systems and Human Pathophysiology (D1) – Cardiovascular, Pulmonary, Renal and Neuropathology	Co-Director, lecturer and organizer	8	88
F,W, S	2003-2009	Path 150.03 Medical Student Pathology Rotations	2-3 Pathology tutorial entitled: "Autopsy: Ultimate Biopsy – Selected Cases"	2-3	1-4

UCSF Post Baccalaureate Program, School of Medicine Dean's Outreach &Academic Advancement

Dates	Name	Program	Role	Current Position
2000-2001	Fernando Antelo	Post-Baccalaureate	Advisor: medical school application	Drew Medical School
	David Chien	Post Baccalaureate	Advisor: medical school application	UCD Medical School
	Babatunde Ogundipe	Post Baccalaureate	Advisor: medical school application	Tufts Medical School
2001-2002	Melissa Cruz	Post Baccalaureate	Advisor: medical school application	Drexel Medical School
	Katherine McLaughlin-Williamson	Post Baccalaureate	Advisor: medical school application	UCSF Medical School
2002-2003	William Lee	Post Baccalaureate	Advisor: medical school application	Drexel Medical School
	Adriane Primas	Post Baccalaureate	Advisor: medical school application	MS Rozillen Franklin S of M
	Eric Sandoval	Post Baccalaureate	Advisor: medical school application	UCI Medical School
	Jason Talavera	Post Baccalaureate	Advisor: medical school application	UCD Medical School
2003-2004	Dung Huynh	Post Baccalaureate	Advisor: medical school application	U. of Vermont Medical School
	Jamie Lavender	Post Baccalaureate	Advisor: medical school application	UC San Diego
	Traloun Song	Post Baccalaureate	Advisor: medical school application	UC Davis Medical School
2004-2005	Ruby Jain	Post Baccalaureate	Advisor: medical school application	Ross School of Medicine
	LaTasha Seliby	Post Baccalaureate	Advisor: medical school application	Alabama State Medicine School
2005-2006	Johnny Eguzabal	Post Baccalaureate	Advisor: medical school application	University of Illnois SOM
	David Gutteridge	Post Baccalaureate	Advisor: medical school application	Emory Shool of Medicine
	Irma Hernandez	Post Baccalaureate	Advisor: medical school application	UCLA School of Medicine
	Patricia Mayorquin	Post Baccalaureate	Advisor: medical school application	UCLA Drew SOM
2006-2007	Krista Lofton	Post Baccalaureate	Advisor: medical school application	USC School of Public Health
	Eli Carillo	Post Baccalaureate	Advisor: medical school application	UCSF School of Medicine
2007-2008	Yeranui Gomez	Post Baccalaureate	Advisor: medical school application	UCSF SOM in Fall 2009
2008-2009	Jovauna Currey	Post Baccalaureate	Advisor: medical school application	Applying to medical school
2009-2010	Craig Brady Larsen	Post Baccalaureate	Advisor: medical school application	Currently in the program
	Melanie Mai Maykin	Post Baccalaureate	Advisor: medical school application	Currently in the program

2000 to present **Faculty advisor**, New Mentorship Program for Underrepresented Minority Medical Students, University of California School of Medicine (March)

2003-2006 **Co-Director**, UCSF School of Medicine Mentorship Program for Underrepresented Minority Students (September)

2004-2006	Faculty advisor, UCSF/Fresno Hispanic Centers of Excellence, University of California San Francisco School of Medicine (December)

TEACHING EXPERIENCES:

1979-1980	Teaching Assistant, General Chemistry, University of Southern California School of Medicine, Health Professional Preparation Program (Summers)
1980-1982	Teaching Assistant, Organic Chemistry, University of Southern California School of Medicine, Health Professional Preparation Program (Summers)
1981-1982	Head Residential Advisor, University of Southern California School of Medicine, Health Professional Preparation Program (Summers)
1981	Taught general chemistry to local junior college students, University of Southern California School of Medicine Med-Cor College Program
1980-1982	Tutor, Gross Anatomy, University of Southern California School of Medicine
1981	Tutor, Pathology, Tutor, University of Southern California School of Medicine
1982 and 1985	Taught basic tissue culture methodology and experimental approaches used to study *in vitro* chemical carcinogenesis, Off-campus supervisor for Occidental College Senior Internship Program
1985	Tutor, Microanatomy, University of Southern California School of Medicine
1985-86	Tutor, Gross Anatomy, University of Southern California School of Medicine
1987-88	Tutor, Gross Anatomy, University of Southern California School of Medicine
1989	Teaching Assistant, Pathology, University of California, San Francisco School of Medicine, (Spring Quarter)
1989	Teaching Assistant, Pathology, University of California, San Francisco School of Dentistry, (Fall Quarter)
1989 - 2001	Laboratory Group Instructor, Pathology, University of California, San Francisco School of Medicine,
1990 – 2001	Lecturer, Pathology, California College of Podiatric Medicine, San Francisco
1990-1991	Lecturer, Pathology, University of California, San Francisco School of Dentistry, (Fall Quarter)
1992	Lecturer, Pathology, University of California, San Francisco School of Medicine (Winter Quarter)

TEACHING EXPERIENCES:

1992	**Co-Director** and Lecturer, University of California, San Francisco School of Dentistry, (Fall Quarter)
1993-2003	**Director** and Lecturer University of California, San Francisco School of Dentistry, Pharmacy and Physical Therapy, (Fall Quarter)
1992-1997	**Course Lieutenant** and Lecturer, Pathology, University of California, San Francisco School of Medicine (Winter Quarter)
1992-2006	Lecturer, Pathology Review for USMLE Step 1, University of California, San Francisco School of Medicine (Spring)
1997-2001	**Course Deputy Director** and Lecturer, Pathology, University of California San Francisco School of Medicine.
1992-97	Lecturer, Pathology Review for Podiatric Board Exam, California College of Podiatric Medicine, San Francisco (Spring)
1995-99, 2002-04	Lecturer, Pathology Review for National Boards Part 1, University of California San Francisco School of Dentistry, (Spring)
1993-2004	Lecturer, Pathology Review for USMLE Step 1, Stanford University School of Medicine, (Spring)
1990-1999	Pathology **Director** and Lecturer, Pathology Review for USMLE Step 1, Compass, Inc.
1998, 2000 and 2004	Lecturer and laboratory instructor, Cancer Biology Course, University of California, San Francisco Graduate School (Winter quarter)
1998 to present	Associate member, UCSF/Mt. Zion Cancer Center, Research & Education Program (July)
2000	Lecturer, Heath Careers Opportunity Program, Neuroanatomy, Stanford University School of Medicine, COE (June 29, July 13 and July 18)
2002 to 2006	**Co-Director**, Integration and Consolidation Block, University of California, San Francisco School of Medicine (March)
2002 to 2007	**Co-Director,** Pathology, Metabolism and Nutrition Block, University of California, San Francisco School of Medicine (October and November)
2003 to present	Lecture, Tissue Repair: Regeneration and Wound Healing, University of California, San Francisco School of Medicine (Prologue Block – First year medical students)
2004	Lecturer, Skeletal Tissues, Histology, University of California, San Francisco School of Medicine (Prologue Block – First year medical students)

TEACHING EXPERIENCES:

2004 to 2005	Laboratory Instructor, Surgical Technology Training Program, University of California, San Francisco Medical Center
2007 to 2009	**Co-Director**, Life Cycle/Epilogue, University of California, San Francisco School of Medicine (January to March)
2007 to present	**Co-Director**, USMLE Prep, University of California, San Francisco School of Medicine (Decemeber to March)
2008 to present	Lectures, Introduction to Pathology and Cell Injury and Adaptations, Acute Inflammation, Chronic Inflammation, Tissue Repair and Principles of Neoplasia, University of California, San Francisco School of Medicine (Prologue Block – First year medical students)

TEACHING AIDS:

1992 to present	Created a Pathology Review syllabus for the USMLE Step 1 exam (231 pages), which is given to second year medical students at University of California, San Francisco and Stanford University Medical Schools
1992 to present	Developed and written multiple syllabi for medical, dental, dental hygiene, pharmacy and physical therapy courses
2001 to present	Developed web-based teaching modules for Prologue, Organs, Infection, Inflammation and Immunology, Metabolism & Nutrition, and Integration and Consolidation Block
2005 to present	Developed and implemented podcasting in Schools of Medicine, Dentistry and Pharmacy, published/created over **400 pubcasts**
2007 to present	Developed and implemented audience response system (Turning Point) in the School of Medicine
2007 to present	Developing and implementing digital virtual microscopy in the schools of medicine and dentistry, and the department of pathology
2008 to present	Developed and implemented a cognitive framework map of the essential fundamental pathologic mechanisms of disease to help students understand and learn as a foundation for studying disease processes
2009 to present	Design, develop and create differentiated interactive clinical cases integrating the basic and clinical sciences using Articulate Professional E-Learning Software suite

TEACHING AWARDS AND NOMINATIONS:

1990	Excellence in Small Group Instruction/Lab Instruction by the Class of 1992, Teaching Award, University of California, San Francisco School of Medicine (May)
1991	Special Commendation for Excellence in Teaching, Henry J. Kaiser Award Selection Committee, UCSF School of Medicine (May)
1992	Excellence in Lab Instruction by the Class of 1994, Teaching Award, University of California, San Francisco School of Medicine (May)
1992	House Staff Teaching Award by the Graduating Class of 1992, University of California, San Francisco School of Medicine (May)
1993	A Major Contribution to Teaching by the Class of 1995, University of California, San Francisco School of Medicine (May).
1994	Faculty Teaching Award for Outstanding Contribution to Medical Education at UCSF School of Medicine, UCSF School of Medicine Class of 1994 (May 27)
1994	Henry J. Kaiser Excellence in Teaching Award, University of California, San Francisco, School of Medicine (May 27)
1994	Devotion to Teaching Above and Beyond the Call of Duty Teaching Award, University of California, San Francisco School of Medicine, Class of 1996, (September 26)
1995	Nominated for the Henry J. Kaiser Excellence in Teaching Award, University of California, San Francisco School of Medicine (May)
1995	Nominated for Excellence in Small Group Instruction by the Class of 1997, Teaching Award, University of California, San Francisco School of Medicine, September.
1995-96	Teacher of the Year Award, The Class of 1997 Honors, University of California, San Francisco School of Pharmacy
1996	The Excellence in Teaching Award, The Dental Class of 1998, University of California, School of Dentistry
1996-97	Teacher of the Year Award, The Class of 1998 Honors, University of California, San Francisco School of Pharmacy
1997	The Excellence in Teaching Award, The Dental Class of 1999, University of California School of Dentistry
1997	Special Award for Excellence in Teaching, Graduating Class of 1997, University of California San Francisco School of Medicine (May 23)

TEACHING AWARDS AND NOMINATIONS:

1998	A Major Contribution to Teaching Award, Class of 2000, University of California, San Francisco School of Medicine (May 12)
1998	Pre-Clinical Faculty Award for Excellence in Teaching, Graduating Class of 1998, University of California, San Francisco School of Medicine (May 22)
1999	Nominated for A Major Contribution to Teaching Award, Class of 2001, University of California, San Francisco School of Medicine (May 18)
1999	The Excellence in Teaching Award, The Dental Class of 2001, University of California School of Dentistry (May 19)
1999	Nominated for the Henry J. Kaiser Excellence in Teaching Award, University of California San Francisco School of Medicine (May).
1999	Pre-Clinical Faculty Award for Excellence in Teaching, Graduating Class of 1999, University of California San Francisco School of Medicine (May 21)
2000	Pre-Clinical Faculty Award for Excellence in Teaching, Graduating Class of 2000, University of California, San Francisco School of Medicine (May 19)
2000	Nominated for A Major Contribution to Teaching Award, Class of 2002, University of California, San Francisco School of Medicine (May)
2001	Nominated for UCSF Chancellor's Community Service Award (January)
2000-2001	The Long Award for Excellence in Teaching, University of California, San Francisco School of Pharmacy, The Class of 2002
2001	Nominated for Excellence in Teaching Small Group, Class of 2003, University of California San Francisco School of Medicine (May 16)
2002	Nominated for UCSF Chancellor's Community Service Award (January)
2001-2002	The Long Award for Excellence in Teaching, University of California San Francisco School of Pharmacy, The Class of 2003
2002	Nominated for the Henry J. Kaiser Excellence in Teaching Award, University of California, San Francisco School of Medicine (May)
2002	Pre-Clinical Faculty Award for Excellence in Teaching, Graduating Class of 2002, University of California, San Francisco School of Medicine (May 17)
2002	Nominated for "Outstanding Lecture Series", University of California, San Francisco School of Medicine, The Class of 2004 (May)

TEACHING AWARDS AND NOMINATIONS:

2001-2002	Distinction in Teaching Award, University of California, San Francisco, Academic Senate
2003	A Major Contribution to Teaching Award, Class of 2005, University of California San Francisco School of Medicine (March 20)
2004	Nominated for the Henry J. Kaiser Excellence in Teaching Award, University of California San Francisco School of Medicine (May)
2005	Innovations in Teaching Award, University of California, San Francisco School of Medicine Class 2007 (March 15)
2005	Nominated for Inspirational Teaching Award, University of California, San Francisco School of Medicine, Class 2008 (March 15)
2005	Nominated for the Henry J. Kaiser Excellence in Teaching Award, University of California, San Francisco School of Medicine (May 5)
2006	Nominated for the Henry J. Kaiser Excellence in Teaching Award, University of California, San Francisco School of Medicine (May 5)
2007	Epilogue Team: Innovative Teaching Award, University of California, San Francisco School of Medicine Class 2009 (March 8)
2008	Nominated for Outstanding Lecture Teaching Award, University of California, San Francisco School of Medicine, Class 2011 (April 22)

SUMMARY OF TEACHING HOURS:
(total for medical, dental, dental hygiene, pharmacy, physical therapy and podiatry students, house staff and graduate students) that includes preparation and actual lecture hours:

PAST:	Approximately 1200 hours
PRESENT:	Approximately 1000 hours
FUTURE:	Approximately 1000 hours

Annual Teaching Hours (only actual contact time):

Teaching Hours (1990-91):

Pathology Laboratory (Medical School)	48 hours
Pathology Review Sessions (Medical School)	60 hours
Pathology Lecture(s) (Dental School)	1 hour
Pathology Lectures (Podiatry School)	11 hours
	Total = 120 hours

Teaching Hours (1991-92):

Pathology Laboratory (Medical School)	18 hours
Pathology Lectures (Medical School)	1 hour
Pathology Review Sessions (Medical School)	178 hours
Pathology Lectures (Podiatry School)	13 hours
Pathology Review (Podiatry School)	3 hours
Pathology Lecture (Dental School)	1 hour
Total =	214 hours

Teaching Hours (1992-93):

Pathology Laboratory (Medical School)	18 hours
Pathology Lectures (Medical School)	4 hours
Pathology Review Sessions (Medical School)	150 hours
Pathology Lectures (Podiatry School)	18 hours
Pathology Review (Podiatry School)	3 hours
Pathology Review (Pathology residents)	16 hours
Pathology Lecture (Dental School)	2 hours
Total =	214 hours

Teaching Hours (1993-94):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	4 hours
Pathology Review Sessions (Medical School)	150 hours
Pathology Lectures (Podiatry School)	18 hours
Pathology Review (Podiatry School)	3 hours
Pathology Laboratory (Dental School)	42 hours
Pathology Grand Rounds	3 hours
Pathology Review (Pathology residents)	16 hours
Pathology Lecture (Dental School)	6 hours
Total =	262 hours

Teaching Hours (1994-95):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	3 hours
Pathology Review Sessions (Medical School)	150 hours
Pathology Lectures (Podiatry School)	18 hours
Pathology Review (Podiatry School)	3 hours
Pathology Laboratory (Dental School)	42 hours
Pathology Grand Rounds	0 hours
Pathology Review (Pathology residents)	16 hours
Pathology Lecture (Dental School)	8 hours
Total =	260 hours

Teaching Hours (1995-96):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	3 hours
Pathology Review Sessions (Medical School)	150 hours
Pathology Lectures (Podiatry School)	18 hours
Pathology Review (Podiatry School)	8 hours
Pathology Laboratory (Dental School)	42 hours
Pathology Grand Rounds	4 hours
Pathology Review (ENT residents)	8 hours
Pathology Lecture (Dental School)	8 hours
Total =	261 hours

Teaching Hours (1996-97):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	3 hours
Pathology Review Sessions (Medical School)	160 hours
Pathology Lectures (Podiatry School)	18 hours
Pathology Review (Podiatry School)	8 hours
Pathology Laboratory (Dental School)	42 hours
Pathology Grand Rounds	0 hours
Pathology Review (ENT residents)	8 hours
Pathology Lecture (Dental School)	10 hours
Total =	269 hours

Teaching Hours (1997-98):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	2 hours
Pathology Review Sessions (Medical School)	160 hours
Pathology Laboratory (Dental School)	42 hours
Cancer Cell Biology Course (Graduate School)	24 hours
Pathology Review (ENT residents)	6 hours
Pathology Lecture (Dental School)	16 hours
Total =	268 hours

Teaching Hours (1998-99):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	2 hours
Pathology Review Sessions (Medical School)	160 hours
Pathology Laboratory (Dental School)	42 hours
Cancer Cell Biology Course (Graduate School)	24 hours
Pathology Review (ENT residents)	6 hours
Pathology Grand Rounds	1 hour
Pathology Lecture (Dental School)	16 hours
Total =	269 hours

Teaching Hours (1999-2000):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	2 hours
Pathology Review Sessions (Medical School)	60 hours
Pathology Laboratory (Dental School)	42 hours
Cancer Cell Biology Course (Graduate School)	24 hours
Pathology Grand Rounds	1 hour
Pathology Review (Pathology residents)	16 hours
Pathology Lecture (Dental School)	16 hours
Total =	279 hours

Teaching Hours (2000-2001):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	2 hours
Pathology Review Sessions (Medical School)	160 hours
Pathology Laboratory (Dental School)	42 hours
Pathology Department Lectures	3 hours
Pathology Review (ENT residents)	8 hours
Pathology Review (Pathology residents)	16 hours
Pathology Lectures (Dental School)	16 hours
Total =	257 hours

Teaching Hours (2001-2002):

Pathology Laboratory (Medical School)	20 hours
Pathology Lectures (Medical School)	2 hours
Pathology Review Sessions (Medical School)	38 hours
Pathology Laboratory (Dental School)	42 hours
Pathology Department Lectures	3 hours
Pathology Review (ENT residents)	8 hours
Pathology Review (Pathology residents)	16 hours
PBL (Medical School)	12 hours
Pathology Lecture s(Dental School)	18 hours
Total =	159 hours

Teaching Hours (2002-2003):

Pathology Laboratory (Medical School)	36 hours
Pathology Lectures (Medical School)	3 hours
Pathology Review Sessions (Medical School)	38 hours
Pathology Laboratory (Dental School)	30 hours
Pathology Department Lectures	2 hours
Pathology Review (ENT residents)	8 hours
Pathology Review (Pathology residents)	16 hours
PBL (Medical School)	12 hours
Pathology Lecture (Dental School)	18 hours
Total =	163 hours

Teaching Hours (2003-2004):

Pathology Laboratory (Medical School)	36 hours
Pathology Lectures (Medical School)	5 hours
Pathology Review Sessions (Medical School)	38 hours
Pathology Laboratory (Dental School)	30 hours
Pathology Department Lectures	2 hours
Pathology Review (ENT residents)	8 hours
PBL (Medical School)	16 hours
Pathology Lecture (Dental School)	28 hours
Total =	163 hours

Teaching Hours (2004-2005):

Pathology Laboratory (Medical School)	36 hours
Pathology Lectures (Medical School)	5 hours
Pathology Review Sessions (Medical School)	38 hours
Pathology Laboratory (Dental School)	25 hours
Pathology Lecture (Dental School)	28 hours
Total =	132 hours

Teaching Hours (2005-2006):

Pathology Laboratory (Medical School)	26 hours
Pathology Lectures (Medical School)	41/2 hours
Pathology Review Sessions (Medical School)	22 hours
Pathology Lectures (Pharmacy and PT)	35 hours
Pathology Laboratory (Dental School)	13 hours
Pathology Lecture (Dental School)	28 hours
Total =	128 1/2 hours

Teaching Hours (2006-2007):

Pathology Laboratory (Medical School)	16 hours
Pathology Lectures (Medical School)	61/2 hours
Pathology Review Sessions (Medical School)	12 hours
Pathology Lectures (Pharmacy and PT)	35 hours
Pathology Laboratory (Dental School)	13 hours
AIMS Small Group (Medical School)	2 hours
Pathology Lecture (Dental School)	28 hours
Total =	114 1/2 hours

Teaching Hours (2007-2008):

Pathology Laboratory (Medical School)	30 hours
Pathology Lectures (Medical School)	71/2 hours
Pathology Review Sessions (Medical School)	12 hours
Pathology Lectures (Pharmacy and PT)	35 hours
Pathology Laboratory (Dental School)	13 hours
AIMS Small Group (Medical School)	2 hours
Pathology Lecture (Dental School)	28 hours
Total =	128 1/2 hours

Teaching Hours (2008-2009):

Pathology Laboratory (Medical School)	30 hours
Pathology Lectures (Medical School)	8 hours
Pathology Review Sessions (Medical School)	12 hours
Pathology Lectures (Pharmacy and PT)	35 hours
Pathology Laboratory (Dental School)	13 hours
Pathology Lecture (Dental School)	28 hours
	Total = 126 hours

Teaching Hours (2009-2010):

Pathology Laboratory (Medical School)	30 hours
Pathology Lectures (Medical School)	6 hours
Pathology Review Sessions (Medical School)	20 hours
Pathology Lectures (Pharmacy and PT)	35 hours
Pathology Laboratory (Dental School)	13 hours
Pathology Lecture (Dental School)	28 hours
	Total = 132 hours

TEACHING NARRATIVE

My current teaching responsibilities include teaching pathology in the University of California Schools of Medicine, Dentistry, and Pharmacy, and Physical Therapy. I was the deputy director for the Pathology 101, 102 and 103 which involved creating examinations, coordinating faculty participation and syllabus publication, attending course committee meetings, lecturing, and laboratory leader. In addition, I have developed and coordinated the review sessions for the medical students before each examination (7 exams per year). In addition, I have created handouts for each section of the course that include gross and microscopic black and white photos. The histopathology handout includes brief explanations of histopathology, epidemiology, clinical manifestations and complications of each disease process that the student will encounter in their scheduled laboratory exercises. I have created a histopathology atlas that includes all the glass slides that a UCSF second year medical student will study in the pathology course for each quarter's syllabus. With the new curriculum, I have created new labs in the Cancer and Metabolism & Nutrition blocks with web-based learning modules. I have also created new web-based learning modules for many of the other blocks as well. I was the Director of the Integration and Consolidation Block for developing new lectures (2006 – Mechanisms of Disease lecture series (8 hours), small group sessions and laboratory exercises. I have also developed web-based examinations in the Integration and Consolidation Block. I am currently the co-director of Life Cycle/ Epilogue. Epilogue replaced the Integration and Consolidation Block. Finally, I have given 12 to 16 hours of pathology review for UCSF second year medical students in preparation for USMLE Step 1 exam, which includes a pathology review manuscript (225 pages) covering a review of pathology. This year (2007) I have helped develop and implement a structured USMLE Step 1 Prep course for the UCSF School of Medicine second year medical students.

I am also the director for the pathology course offered to pharmacy and physical therapy students in the fall quarter (Pathology135, 135.01, respectively). My duties include designing examinations, coordinating faculty participation and syllabus publication, attending course and student status committee meetings, lecturing, and laboratory leader. I am the pathology co-director and lecturer for BMS 116, 117, 118 and 126 for first and second year dental students in the new dental school curriculum. The dental students have a pathology lab exercise where they study important gross and

microscopic features of general mechanisms of diseases and common systemic diseases. I have also created a histopathology atlas that includes all the glass slides seen during the course in their laboratory syllabus. Finally, I introduced podcasting in the fall of 2005 as a means of providing lecture and laboratory content in the schools of medicine, dentistry and pharmacy, and division of physical therapy. Finally, I received a UCSF Instructional Grant for digital virtual microscopy to be used initially in the schools of medicine and dentistry at UCSF, which is going to implemented in fall 2009.

I am the director of the UCSF Department of Pathology Post-Sophomore Fellowship for third and fourth year medical students where one to two students spend a year in the department of Pathology. The students work on the autopsy, surgical pathology, and cytology services, and they have the same role and responsibility as a first year resident.

RESEARCH AND CREATIVE ACTIVITIES

PAST

Source: National Institute of Aging
Title: Novel Therapeutics for Prion Diseases
PI: Stephen DeArmond, M.D., Ph.D.
Effort: 20%
Entire Period of Support: 5 years from 6/1/03-5/31/08

Source: Department of Health and Human Services
Title: Hispanic Centers of Excellence
PI: Alma Martinez, M.D.
Effort: 8%
Entire Period of Support: 3 years from 9/1/04-5/31/06

Source: UCSF Center of Instructional Technology
Title: Digital Virtual Microscopy: Teaching Histology and Histopathology to Medical and Dental Students
PI: Henry Sanchez, M.D., Steve Rosen, PhD. and Douglas Schmucker, PhD
Effort: Money will be used to scan the entire medical student histopathology slides (approximately 80) and dental histology student teaching glass slides (approximately 20)
Entire Period of Support: 1 year from 7/1/07-6/30/08

CURRENT

Source: National Institute of Aging
Title: Novel Therapeutics for Prion Diseases
PI: Stanely Prusiner, M.D.
Effort: 5%
Entire Period of Support: 5 years from 06/01/09-5/31/14

Source: National Institute of Aging
Title: Degenerative and Dementing Diseases of Aging
PI: Stanely Prusiner, M.D.
Effort: 10%
Entire Period of Support: 5 years from 02/01/09-5/31/14

PEER REVIEWED PUBLICATIONS:

1. Meeker, T.C., Shiramizu, B., Kaplan, L., Herndier, B., **Sanchez, H.**, Grimaldi, C., Baumgartner, J., Rachlin, J., Feigal, E., Rosenblum, M., and McGrath, M.(1991). *Evidence for molecular subtypes of HIV-associated lymphoma: division into peripheral monoclonal, polyclonal and central nervous system lymphoma*. AIDS 5:669-674.

2. Herndier, B.G., **Sánchez, H.C.**, Chen, Y.Y.,and Weiss, L.M. (1993) *High Incidence of Epstein-Barr Virus in the Reed-Sternberg Cells of HIV-associated Hodgkin's Disease*. American Journal of Pathology, 142(4):1073-9.

3. DeArmond, S.J., **Sanchez, H.**, Yehiely, F., Qiu, Y., Ninchak-Cassey, A., Daggett, V, Camerino, A.P., Cayetano, J., Roger, M., Groth, D., Torchia, M., Tremblay, P., Scott, M.R., Cohen, F.E. and Prusiner, S.B. *Selective neuronal targeting in prion disease*. Neuron Dec;19(6):1337-48, 1997.

4. Sternlicht, M.D., Lcohter, Sympson, C.J., Huey, B., Rougier, J.-P., Gray, J.W., Pinkel, D., Bissell, M.J. and Werb, Z. (1999). *The Stromal Proteinase MMP3/Stromelysin-1 Promotes Mammary Carcinogenesis*. Cell **98**:137-146. Received an acknowledgment.

5. DeArmond, S.J., Qiu, Y., **Sanchez, H.**, Spilman, P.R., Ninchak-Cassey, A., Alonso, D. and Daggett, V. *PrPc glycoform heterogeneity as a function of brain region: implications for selective targeting of neurons by prion strain*. J. Neuropathology Exp. Neurol. Sept;58(9):1000-9, 1999.

6. **Sanchez, H.** and Ursell, P. *Use of autopsy cases for integrating and applying the first two years of medical education*. Acad. Med. May;76(5):530-1, 2001.

7. Seligman, V., Bolton, P.B., **Sánchez, H.C.** and Fye, K. *Propylthiouracil-induced microscopic polyangiitis*. Journal of Clinical Rheumatology, 7(3):170-174, 2001.

8. Shiboski, C.H., Regezi, J.A., **Sanchez, H.C.** and Silverman, S. *Oral Lesions as the First Clinical Sign of Microscopic Polyangiitis*. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 94(6):707-11, 2002.

9. Yeh, B.M., Coakley, F.V., Gotway, M.B., **Sanchez, H.C.**, Wilson, M., and Reddy G.P. *Prevalence and Importance of Azygos Arch Valves on Intravenous Contrast-Enhanced CT*. Radiology. 2004 Jan; 230(1): 111-5. Epub 2003 Nov 26.

10. Safar, J.G., Gerschwind, M.D., Deering, C., Didorenko, S., Sattavat, M, **Sanchez, H.**, Serban, H., Vey, M., Baron, H., Giles, K., Miller, B., DeArmond, S.J. and Prusiner, S.B. *Diagnosis of Human Prion Disease*. Proc Natl Acad Sci USA. Mar 1;102(9):3501-6, 2005.

MANUSCRIPTS IN PREPARATION/ACCEPTED:

1. Kerlikowske, K., Molinaro A., Gauthier, M., Berman H., Waldman, F., Bennington, J. , **Sanchez, H.**, Jimenez, C., Stewart, K., Ljung, B.-M., and Tlsty, T. *Biomarker Expression and Risk of Subsequent Tumors After Initial Ductal Carcinoma In Situ Diagnosis*. Journal of the National Cancer Institute.

ABSTRACTS:

1. Landolph, J.R., and **Sanchez, H.C.** (1986). *Inhibition of Chemical Transformation in C3H10T1/2 Cells by Aspirin II*(Abstract), American Association for Cancer Research, #541.

2. Herndier, B., Shiramizu, B., **Sanchez, H.**, Kaplan, L., Meeker, T., and McGrath, M.(1990). *Multisite Molecular Analysis of AIDS-associated Lymphomas*(Abstract). Sixth International Conference on AIDS, San Francisco.

3. McPhaul, L.W., Shiramizu, B.T., **Sanchez, H.**, Fein, C.L., Herndier, B.G., McGrath, M., and Ng, V.(1991) *Molecular Analysis of AIDS Lymphomas* (Abstract). Eighth Annual Universitywide AIDS Research Program and Task Force on AIDS.

4. Ng, V., McGrath, M., Fein, C.L., **Sanchez, H.**, McPhaul, L.W., Fry, W., and Nelson, P.(1991). *Immunoglobulin V region utilization by retrovirus associated lymphomas* (Abstract). Eighth Annual Universitywide AIDS Research Program and Task Force on AIDS.

ACKNOWLEDGEMENTS:

1. Knoechel, B., Lohr, J., Kahn, E., Bluestone, J.A., and Abbas, A.K.. *Sequential Development of Interleukin 2-Dependent Effector and Regulatory T Cells in Response to Endogenous Systemic Antigen*. The Journal of Experimental Medicine. November 21;202(10):1375-1386, 2005. Assisted with microscopy and digital photography.

BOOKS:

1. Bhushan, V., Le, Tao, and Amin, Chirag. *First Aid for the USMLE Step 1*. **Faculty Reviewer**, Pathology Section, Appleton & Lange, 1994-2001.

2. Edited/modified/replaced approximately 1600 gross, microscopic and electron microscopy images (project took 20 months starting in September 2002), Robbins and Cotran's Pathologic Basis of Disease, Seventh Edition, Editors Vinay Kumar, Abul Abbas and Nelson Fausto, Elsevier, August 2004.

3. Editing/modifying/replacing images for Robbins Basic Pathology, Editors Vinay Kumar, Abul Abbas, Nelson Fausto and Richard Mitchell, Eighth Edition, Elsevier for May 25, 2007.

4. International Advisory Panel, Wheater's Functional Histology: A Text and Colour Atlas, Fifth Edition, 2005-2006.

5. Edited/modified/ replaced approximately 427 gross and microscopic images (project took 4-5 months starting in June 2008), Surgical Pathology of the GI Tract, Liver, Biliary Tract, and Pancreas, Second Edition, Editors Robert D. Odze and John R. Goldblum, Elsevier, January 2009.

6. Reviewing normal histology images (25) for Histology Review, Benjamin and Cummings, June 26, 2009.

7. Sanchez, H.C., Barone, J. Editors. USMLE Step 1 Pathology Lecture Notes, Kaplan Medical, 2009.

RESEARCH PROGRAM

1. Project: *Neuropathology of Prion Diseases*, Principle Investigator: Dr. Stephen DeArmond, Professor of Pathology, University of California San Francisco, 1994-09.

   My role in this project had been to assist Dr. Stephen DeArmond initially looking at animal models of prion diseases (histoblots and neuropathologic changes), helped to create a database for prion diseases in patients and assist in computer graphics. Currently, Dr. Stephen DeArmnond has obtained a contract National Institute of Aging to look at autopsy cases involving Creutzfeldt-Jacob Disease infectivity in blood and visceral organs. I have assisted him in developing autopsy protocols and perform autopsies on patients with suspected prion diseases where tissue samples are collected for analysis.

2. Project: *Molecular Analysis of AIDS-associated Non-Hodgkin's Lymphomas***.** Principle Investigator: Dr. Michael S. McGrath, Assistant Professor of Laboratory Medicine in Residence, and Dr. Brian Herndier, Professor of Pathology and Laboratory Medicine, University of California San Francisco, 1990-93, 1998-2002.

   My role in this project had been to identify autopsy cases at UCSF Medical Center that are related to AIDS-associated Non-Hodgkin's lymphomas and collect tissue samples for the San Francisco General Hospital AIDS Malignancy Bank.