University of California, San Francisco
CURRICULUM VITAE

Name: Tarik Tihan, MD, PhD

Position: Professor of Clinical Pathology, Step 3
Pathology
School of Medicine

Address: Box 0102
505 Parnassus Ave, Moffitt, M551C
University of California, San Francisco
San Francisco, CA 94143

Voice: 514-9332
Fax: 476-7963
email: tarik.tihan@ucsf.edu

EDUCATION

1979 - 1985	Istanbul University School of Medicine	M.D.	Medicine
1986 - 1989	Istanbul University Dept of Biochemistry	Ph.D.	Clinical Biochemistry
1992 - 1994	Beth Israel Medical Center, New York	Resident	Pathology
1994 - 1995	Memorial Sloan Kettering Cancer Center,	Fellow	Oncologic Pathology
1995 - 1997	State University of New York,	Fellow	Neuropathology

LICENSES, CERTIFICATION

1985	Medical License of Ministry of Health and Social Aid, Turkiye (license# 18420/21888)
1989	Ministry of Health and Social Aid, Specialty Diploma (dip no. 27730/38328)
1991	Certificate of ECFMG parts I and II (certification #458-417-3)
1993	FLEX Examination Parts I and II.
1995	New York State Medical License (license# 200976, currently active)
1996	Certification in Anatomic Pathology, American Board of Pathology (96-254)
1997	Maryland State Medical License (license#D52400, currently inactive)
1998	Maryland Department of Health Cytology Proficiency Testing Certificate
2002	Certification in Neuropathology, American Board of Pathology (S-03-253)
2002	California State Medical License (license#. C50987, currently active)

2008	Pennsylvania State Medical License (license# MD434832, currently inactive)
2012	License of Pathology, Ministry of Health and Social Aid (currently active)

PRINCIPAL POSITIONS HELD

1985 - 1986	Kahramanmaras State Hospital	Department of Critical Care, Turkiye.	House Officer.
1986 - 1989	University of Istanbul, Istanbul Medical School,	Department of Clinical Biochemistry, Turkiye.	Clinical Instructor and Research Assistant.
1988 - 1989	University of Vienna,	Department of Medical Chemistry, Austria.	Research Assistant.
1989 - 1990	University of South Florida,	Department of Internal Medicine & H. Lee Moffitt Cancer Center, Florida.	Research Fellow.
1991 - 1992	Beth Israel Medical Center,	Department of Neurosurgery, New York.	Manager of the Recanati Research Laboratory.
1992 - 1994	Beth Israel Medical Center,	Department of Pathology, New York.	Resident.
1994 - 1995	Memorial Sloan-Kettering Cancer Center,	Department of Pathology, New York.	Fellow in Oncologic Pathology.
1995 - 1997	State University of New York at Stony Brook,	Department of Pathology, New York.	Fellow in Neuropathology.
1997 - 2000	Johns Hopkins Medical Institutions,	Department of Pathology, Baltimore.	Clinical Instructor.
1997 - 2000	Johns Hopkins Bayview Medical Center,	Department of Pathology, Baltimore.	Attending Pathologist in Anatomic Pathology and Cytopathology.
2000 - 2002	Johns Hopkins Medical Institutions,	Department of Pathology, Baltimore.	Assistant Professor.
2002 - 2008	UCSF School of Medicine,	Department of Pathology, UCSF	Associate Professor.
2002 -present	Brain Tumor Research Center,	Department of Neurological	Principal Investigator.

		Surgery, UCSF	
2008 -present	UCSF School of Medicine,	Department of Pathology, UCSF	Professor, Clinical X, Step 3.
2011–present	UCSF School of Medicine,	Koc University School of Medicine	Visiting Professor

HONORS AND AWARDS

2002	UCSF Department of Neurological Surgery,	Diane RalstonTeaching Award
2004	UCSF Department of Neurological Surgery	Diane Ralston Teaching Award
2008	Ege Pathology Society	Recognition of Scientific Contribution
2008	Cukurova Pathology Society	Award for Contribution to Pathology Education
2009	AWADIAP, Association of West African Pathologists	Friends of Africa Certificate of Recognition
2010	Moroccon Hematology and Pediatric Oncology Society	Certificate of Recognition
2010	Ankara Pathology Society	Certificate of Recognition
2011	Dokuz Eylul University	Recognition of Teaching Excellence
2012	Neuropathology Working Group	Certificate of Recognition
2013	Karadeniz Technical University School of Medicine	Certificate of Recognition in Teaching
2014	Aegean Pathology Society	Certificate of Recognition in Education
2014	Izmir Katip Celebi University	Teaching Award for Contribution to Medical Education
2015	UCSF Department of Neurological Surgery	Dianne Ralston Teaching Award

PROFESSIONAL ACTIVITIES

CLINICAL

2002-present ***UCSF Department of Pathology, Surgical & Autopsy Neuropathology Service***

2002-2012 ***San Francisco General Hospital Autopsy Neuropathology Service***

1997-2002 ***Johns Hopkins University, Department of Pathology, Neuropathology Division***

1997-2002 ***Johns Hopkins Bayview Medical Center, Attending Pathologist & QA Coordinator***

SUMMARY OF CLINICAL ACTIVITIES

SURGICAL NEUROPATHOLOGY SERVICE,

I participate in the Surgical Neuropathology service of University of California, San Francisco and provide consultations for the entire academic year to covers approximately five months of the annual service load. I provide frozen section, routine surgical neuropathology, consultation and autopsy services. The Neuropathology division is one of the largest, if not the largest neuropathology program in the country with nine active neuropathology clinical faculty and numerous research faculty members. The Neuropathology Fellowship program has 4 fellows at any given year. In addition, I coordinate one of the most active Visitor Observership Program for national and international scholars. In the last 8 years, we have hosted residents, fellows and scholars from approximately 25 different countries.

As the Neuropathologist responsible with the service, I routinely participate in Neuropathologists' Consultants Conference on Tuesday mornings, Neuroradiology Correlation Conferences Thursday mornings, and Neuro-oncology Tumor Board Conferences Thursday afternoons. As a member of the surgical pathology service, I also provide consultations on a number of non-CNS biopsies and resections. I participate in the prosection and reporting of central nervous system autopsies in Parnassus Campus. I am responsible for the Neuropathology Autopsy Coverage for 2 months in Moffitt Hospital. I also provide autopsy consultation service for patients who succumbed to brain cancers. I also function as a central reviewer to Adult Glioma Network and Center for Cerebrovascular Studies.

PROFESSIONAL ORGANIZATIONS

Memberships

- American Association of Cancer Research, active member
- American Association of Neurological Surgeons - Tumor Section, adjunct member
- American Association of Neuropathologists, active member, member Education Committee
- Brain Tumor Epidemiology Consortium- NIH, active member
- California Society of Pathologists, active member
- Childrens' Oncology Group, Member, Pathology Reviewer
- College of American Pathologist, active member
- Cukurova Pathology Society, active member
- New York Neuropathology Society-Neuroplex, active member
- Society of Neurooncology, active member
- South Bay Pathological Society of California, active member
- Turkish Neurooncology Society and Neuropathology Working Group, active member
- Turkish Federation of Pathology Societies, active member
- United States and Canadian Academy of Pathology, active member

Service to Professional Organizations

1999 - 2001	American Association of Neuropathologists, Awards Committee	Member
2002 - 2007	American Association of Neuropathologists, Professional Affairs Committee	Member
2002 - present	UCSF Current Issues Course	Organizing Committee, Co-Chair
2004 - present	Turkish Neuropathology Working Group	Organizing Committee, Member
2005 - 2009	American Association of Neuropathologists	VP for Professional Affairs
2006 - present	WHO Classification of Tumours of the Central Nervous System Working Group	Contributor
2007 - 2009	National Board of Medical Examiners, Pathology Test Material Development	Pathology TMDC member
2007 - present	American Association of Neuropathologists	USCAP Companion Society Liaison
2009 - 2013	American Association of Neuropathologists	Education Committee member

2007 - 2013	Brain Tumor Epidemiology Consortium	CBT Initiative Legislative Task Force
2008 - 2013	United States-Canadian Academy of Pathology	Education Committee member
2009 - 2013	United States-Canadian Academy of Pathology	Chair, CME Subcommittee
2010 - 2013	United States-Canadian Academy of Pathology	Membership Committee member
2013 - present	United States-Canadian Academy of Pathology	Chair- Membership Committee
2015 - present	WHO Classification of Tumours of Endocrine Organs Working Group	Contributor

SERVICE TO PROFESSIONAL PUBLICATIONS

2000 - present Histology and Histopathology (3 manuscripts/year)

2002 - present Brain Pathology (5 manuscripts/year)

2002 - present Journal of Neurosurgery (5 manuscripts/year),

2004 - present Human Pathology (12 manuscripts/year)

2004 - present Journal of Neuro-oncology (30 manuscripts/year),

2005 - present Archives of Pathology and Laboratory Medicine (10 manuscripts/year)

2005 - present International Journal of Cancer (4 manuscripts/year)

2005 - present Journal of Experimental Hematology (~1 manuscript/year)

2005 - present Journal of Neuro-oncology - Editorial Board Member

2006 - present Journal of Neuropathology and Experimental Neurology (12 manuscripts/year)

2006 - present Journal of Cancer Research and Therapeutics (12 manuscripts/year)

2006 - present Archives of Pathology and Laboratory Medicine- Editorial Board Member/Section Editor

2007 - present Acta Neuropathologica

2007 - present Turkish Journal of Pathology/Turk Patoloji Dergisi - Editorial Board Member

2008 - present Modern Pathology (3 manuscripts/year)

2008 - present Journal of Pediatric Neurology- Editorial Board Member

2008 - present Journal of Pediatric Neurology (editorial board 2009)

2009 - present Journal of Pediatric Biochemistry- Editorial Board Member

2010 - present Neuro-oncology (2 manuscripts/year)

2011 - present Journal of Neurological Sciences Online (10 manuscripts/year)

2011 - present Journal of Pediatric Biochemistry (5 manuscripts/year)

2011 - present The American Journal of Neuroradiology (2 manuscripts/year)

2012 - present World Neurosurgery (2 manuscripts/year)

2013 - present Turkish Journal of Pathology (12 manuscripts/year)

INVITED PRESENTATIONS

INTERNATIONAL (since 2005- list of earlier presentations available upon request)

2005	Neuropathology Course for Pathologists, Adana, Turkiye	Course Co-chair Invited Speaker
2006	Turkish Pathology Federation, National Pathology Congress, Izmir, Turkiye	Invited Speaker
2006	Erciyes University, Kayseri, Turkiye	Invited Speaker
2006	Neuropathology Working Group, Sivas, Turkiye	Invited Speaker
2006	Neuropathology Working Group, Izmir, Turkiye	Invited Speaker
2007	56th Congresso Nationale, Sattelite Meeting, Cortona, Italy	Invited Speaker
2007	21st European Congress of Pathology, Istanbul, Turkiye	Invited Speaker
2007	Yeditepe University School of Medicine, Istanbul, Turkiye	Invited Speaker
2008	Dokuz Eylul University, Izmir, Turkiye	Invited Speaker
2008	Cukurova University, Adana, Turkiye	Invited Speaker
2008	Hacettepe University, Ankara, Turkiye	Invited Speaker
2008	International Society of Pediatric Neuro-oncology, Chicago, USA	Invited Speaker
2008	International Academy of Pathology Annual Conference, Athens, Greece	Invited Speaker
2008	Turkish Pathology Federation, National Pathology Congress, Antalya, Turkiye	Invited Speaker Moderator
2009	AWADIAP-IAP West African Division Annual Congress, Ibadan, Nigeria	Invited Speaker
2009	Dokuz Eylul University, Department of Pathology, Izmir, Turkiye	Invited Speaker
2009	Ankara Pathology Society Guest Lecturer, Ankara Turkiye	Invited Speaker
2010	6th Congress of Moroccan Hematology Oncology Congress, Casablanca, Morocco	Invited Speaker
2010	Dokuz Eylul University Department of Pathology, Izmir, Turkiye	Invited Speaker
2010	Neuropathology Course, Ankara Pathology Society, Ankara, Turkiye	Course Coordinator Lecturer
2010	Turkish Pathology Federation National Pathology Congress, Eskisehir Turkiye	Invited Speaker
2011	Istanbul University Cerrahpasa Tip Fakultesi, Istanbul, Turkiye	Invited Speaker
2011	Dokuz Eylul University, Practical Neuropathology Lectures, Izmir, Turkiye	Course Coordinator Lecturer
2011	Dokuz Eylul University Scientific Research Group Lecture, Izmir, Turkiye	Invited Speaker

2011	International Pediatric Pathology Association Course , Cesme, Turkiye	Invited Speaker
2011	Neuropathology Working Group, Mersin Turkiye	Invited Speaker
2011	Cukurova University Department of Pathology, Guest , Adana, Turkiye	Invited Speaker
2011	Turkish Pathology Federation National Pathology Congress, Izmir Turkiye	Invited Speaker
2012	Inaugural meeting of Bernd Scheithauer Lectures, Adana, Turkiye	Invited Speaker
2012	Ecopathology Society, Neuropathology Course, Sivas, Malatya, Elazig Turkiye	Course Coordinator Lecturer
2012	Neuropathology Working Group, Izmir, Turkiye	Invited Speaker
2012	EURO-CNS Neuropathology Course, Zagreb Croatia	Invited Speaker
2012	Turkish Pathology Federation National Pathology Congress, Antalya Turkiye	Invited Speaker
2013	Cukurova University School of Medicine, Adana, Turkiye	Invited Speaker
2013	Hacettepe University Department of Pathology, Ankara, Turkiye	Invited Speaker
2013	Istanbul University School of Medicine, Neurology Dept , Istanbul, Turkiye	Invited Speaker
2013	National Congress of the Turkish Neurosurgical Society, Antalya, Turkiye	Invited Speaker
2013	World Federation of Neurosurgical Societies, Neurosurgery Course, Antalya, Turkiye	Invited Speaker
2013	Koc University School of Medicine, Istanbul, Turkiye	Invited Speaker
2013	Ondokuz Mayis University, Neuropathology Course Lectures, Samsun, Turkiye	Course Director
2013	Karadeniz Technical University, Department of Pathology, Trabzon, Turkiye	Invited Speaker
2013	Dokuz Eylul University Department of Pathology, , Izmir, Turkiye	Invited Speaker
2013	Turkish Pathology Federation National Pathology Congress, Cesme Turkiye	Invited Speaker
2013	European Association of Neurological Surgery, Tel-Aviv, Israel	Invited Speaker
2014	Koc University School of Medicine, Istanbul, Turkiye	Invited Speaker
2014	Izmir Katip Celebi University School of Medicine, Izmir, Turkiye	Invited Speaker
2014	Kafkas University School of Medicine, Kars, Turkiye	Invited Speaker
2014	Pan-Arab Society of Neuro-oncology, Annaba Algeria	Invited Speaker
2014	Turkish Pathology Federation National Pathology Congress, Trabzon, Turkiye	Invited Speaker
2014	Aegean Pathology Society, Izmir, Turkiye	Invited Speaker
2014	Kocaeli University School of Medicine, Izmit Turkiye	Invited Speaker

2014	Asian Neuro-oncology Society, Istanbul Turkiye	Invited Speaker
2014	Moroccan Hematology-Oncology Society Neuro-oncology Course, Casablanca Morocco	Course Coordinator Invited Speaker
2015	Koc University School of Medicine, Istanbul Turkiye	Invited Speaker
2015	EANO- European Neuro-oncology Society Annual Meeting, Istanbul, Turkiye	Invited Speaker
2015	Ataturk University School of Medicine, Erzurum, Turkiye	Course Co-director Lecturer
2015	Middle East Medical Assembly Annual Meeting, Beirut, Lebanon	Invited Speaker
2015	American University in Beirut, Department of Pathology, Neuropathology Course	Course Co-director Lecturer
2015	EURO-CNS, European Neuropathology Society, Neurooncology Course, Odense Denmark	Invited Speaker
2015	Arab Society of Pathology CNS Bone and Soft Tissue Course, Cairo, Egypt	Course Lecturer

NATIONAL (since 2005- list of earlier presentations available upon request)

2005	Neurological Surgery Department, Neuroscience Course	Invited Speaker
2005	OSLER Course, Neuropathology Section Neuropathology Tutorial	Invited Speaker
2005	UCSF-Stanford Current Issues Course	Invited Speaker
2005	Brain Tumor Epidemiology Consortium	Invited Speaker
2005	Neurological Surgery Department Neuroscience Course	Invited Speaker
2006	OSLER Course, Neuropathology Tutorial, Los Angeles, CA	Invited Speaker
2006	Neurological Surgery Neuroscience Course, San Francisco, CA	Invited Speaker
2006	USCAP Neuropathology Specialty Conference, Atlanta GA.	Invited Speaker
2006	AANP annual meeting, San Francisco, CA	Invited Speaker
2007	Neurological Surgery Neuroscience Course, San Francisco, CA	Invited Speaker
2007	USCAP Neuropathology Specialty Conference, San Diego, CA	Invited Speaker
2007	AANP annual meeting, Washington DC	Invited Speaker
2007	UCSF-Stanford Current Issues Course	Invited Speaker
2007	California Society of Pathology. Neuropathology Tutorial	Invited Speaker
2008	University of Pennsylvania, Invited Lecture	Invited Speaker
2008	Neurological Surgery Neuroscience Course, San Francisco, CA	Invited Speaker

2008	USCAP AANP Companion Society Conference lecturer	Invited Speaker
2008	USCAP Neuropathology Specialty Conference, Denver, CO	Invited Speaker
2008	AANP annual meeting, San Diego, CA	Invited Speaker
2008	University of California, Davis, Sacramento, CA	Invited Speaker
2008	Brain Tumor Epidemiology Consortium Special Course, Chicago, IL	Invited Speaker
2008	17th Annual Neuro-oncology Updates, Baltimore MD	Invited Speaker
2009	Neurological Surgery Neuroscience Course, San Francisco, CA	Invited Speaker
2009	Osler Course, Neuropathology Tutorial, Los Angeles CA	Invited Speaker
2009	AANP Annual Meeting, Philadelphia, PA	Invited Speaker
2009	CSP 62nd Annual Convention, San Francisco, CA	Invited Speaker
2010	Oregon Pathologists Association, Portland OR	Invited Speaker
2010	USCAP AANP Companion Society Conference, Washington DC	Invited Speaker
2011	USCAP Companion Society Meeting, San Antonio TX	Invited Speaker
2011	AANP Annual Meeting, Seattle WA	Invited Speaker
2012	USCAP Neuropathology Specialty Conference, Vancouver CA	Invited Speaker
2013	USCAP Neuropathology Specialty Conference, Baltimore, MD	Invited Speaker
2014	AANP Annual Meeting, Portland OR	Invited Speaker
2015	USCAP Neuropathology Companion Society Meeting, Boston MA	Invited Speaker
2015	UCSF Department of Neurological Surgery Grand Rounds, San Francisco CA	Invited Speaker

UNIVERSITY AND PUBLIC SERVICE

UNIVERSITY SERVICE

DEPARTMENTAL SERVICE

2000 - 2002	Department of Pathology Quality Assurance Coordinator, Bayview Medical Center
2003 - 2006	Department of Pathology and Neuropathology Unit Website Coordinator, UCSF
2003 - 2010	Department of Pathology Resident Research Coordination, UCSF
2003 - present	Department of Pathology, Neuropathology Resident Teaching Conferences
2007 - present	Department of Pathology CME Committee
2008 - 2011	Department of Pathology Technology Strategy Steering Committee
2012 - 2014	Department of Pathology Mission Bay Space Committee

PUBLIC SERVICE

1999 - 2002	JHU Medical School Second Year Pathology Course Group Leader
1999 - 2002	JHU Medical School Second Year Pathology Course, Neurology Section Co-Director
1999 - 2002	JHBMC Rotating Medical Student Coordinator
2000 - 2009	Member, Group for Research in Pathology Education
2002 - 2005	American Association for Neuropathologists, Member Professional Affairs Committee, Education Subcommittee Member
2002 - 2005	Committee member for the development of Competencies in Neuropathology
2003 - present	Co-chair, UCSF Current Issues in Anatomic Pathology Course
2004 - present	Turkish Neuropathology Group Neuropathology Course Organization Committee
2005 - 2010	Vice President for Professional Affairs, American Association of Neuropathologists Educational Subcommittee

2005 - present	Co-organizer of Neuropathology Section of Neuroscience Course at Hellen Willis nstitute of University of California, Berkeley
2006 - present	UCSF Molecular Pathology Fellowship-Faculty Member
2007 - present	USCAP-AANP Companion Society Meeting Organization Officer
2008 - 2013	USCAP- Member Education Committee
2009 - 2013	USCAP- Chair, Self-Study Subcommittee
2010 - 2013	USCAP- Member, Membership Committee
2010 - 2013	Member, Education Committee, American Association of Neuropathologists
2014 - present	USCAP- Membership Committee, Chair

TEACHING AND MENTORING

TEACHING

POSTGRADUATE AND OTHER COURSES

1994 - 1995	Cornell University Pathology Course Preseptorship	Lecturer and Small Group Leader
1995 - 1997	SUNY @ Stony Brook Pathology Course	Small Group Leader
1995 - 1997	SUNY @ Stony Brook Neuropathology Course	Lecturer
1995 - 1997	SUNY @ Stony Brook Pathology Resident Lecture Series	Lecturer, Tutor
1997 - 2002	JHBCM Neurology Dept Monthly Lectures	Lecturer
1999 - 2002	JHU Medical School, Pathology Small Group	Small Group Leader
1999 - 2002	JHU Neurology Course for Medical Students	Course Assistant Director
1997 - 2002	JHBMC Pathology Resident Monthly Conferences	Lecturer
1999 - 2002	JHBMC Pathology Department Medical Student Rotations	Advisor, Coordinator
2002 - present	UCSF Pathology Resident Teaching Conferences, monthly	Lecturer
2002 - present	UCSF Neuroscience Course Lecturer	Course Coordinator and Lecturer
2002 - present	UCSF Neuropathology Short Term Fellowship	Mentor and Coordinator
2002 - present	UCSF Pathology BMB Course Small Group Leader	Small Group Leader, Lecturer
2002 - 2010	UCSF/Stanford Neuropathology Short Term Fellowship	Coordinator and Advisor
2003 - 2011	Medical Explorer's Lectures for High School Students	Lecturer
2004 - present	Surgical Neurology Dept Neuropathology Board Review	Coordinator and Lecturer
2005 - 2015	UC Berkeley Neuroanatomy Course	Course Coordinator
2006 - present	Quarterly Neuropathology of Epilepsy Conference Pathology	Organizer and Lecturer
2007 -	Turkish Pathology Federation	Course Coordinator and Lecturer

present	Neuropathology Working Group, Neuropathology Workshops	
2013 - present	Koc University School of Medicine, NRVD 308 Course	Coordinator and Lecturer

TEACHING NARRATIVE

Philosophy Statement

Being an excellent educator constitutes one of the major goals of my academic career; an accomplishment that I consider critical for my professional development. I believe that being an excellent educator requires motivation, enthusiasm, and ability to overcome one's own shortcomings in order to master the science and art of teaching. This statement also describes my aspirations as an individual as well as a physician, and I see no better way of personal improvement than aspiring to become an excellent teacher. I strongly believe that knowing everything about a specific topic is far from being sufficient to teach that topic to students at a given level. On the contrary, the well-known “curse of knowledge” often hinders us to remember how we learned the subject matter in the first place. There needs to be conscious, organized effort to understand how teaching works and how each individual learns. Members of an academic department should earn the proficiency and competence to teach at specific levels. Continuous increase of information on any topic requires constant sifting of data to generate appropriate educational content. Faculty members should not be assumed to possess such qualities, and should be constantly challenged to master the "sifting" process and define their educational objectives. My specific interests focus on both theoretical and practical issues in pathology education at every level of proficiency. Theoretical issues include learning the skills required to practice the science and art of pathology, understanding teacher-student interaction, creating effective learning environment, and evaluating assessment strategies. The practical issues include developing teaching materials, questions, and curricula for medical students, residents and fellows.

I believe in the integration of time-honored and well-established methods of teaching with novel techniques and contemporary andragogical concepts. I am involved and interested in teaching undergraduate and graduate students as well as postgraduates and professionals. Thus, I aim to be involved in every aspect of lifelong learning in pathology, which is a critical requirement for any medical professional. This enables me to be a better student before I can be a better teacher.

MENTORING

PREDOCTORAL STUDENTS DIRECTLY SUPERVISED OR MENTORED

Dates	Name	Program or School	Role	Current Position
1998 - 1999	Neer Zeevi	Technion University, Tel-Aviv Israel	Research Mentor and supervisor	Research Faculty, UConn, CT
2003 - 2004	Zohreh Soltani	University of Hamadan	Research Mentor	Faculty, LSU LA
2004 - 2006	Grace Huynh	UC Berkeley	Research mentor	Medical Student, CA
2004 - 2006	Jessica Sadley	UC Berkeley	Research mentor	Medical Student, CA
2009 - 2011	Whitney Banks	KU School of Osteopathy	Mentor	Pathology Resident, VA
2012 - 2012	Peter Modera	Wesleyan University; Middletown, Connecticut	Research mentor and supervisor	Resarch Associate, NYU NY
2012 - 2012	Yee-Hui Yeo	Tri-Service General Hospital, Taipei, Taiwan	Research mentor and supervisor	Medical Student, Taiwan
2012 - 2013	Quentin Bylund	UC Berkeley Extension	Research mentor	Medical Student, CA
2012 - 2012	Deniz Akkoc	Stony Brook; Stony Brook, NY	Research mentor and supervisor	Medical Student, Winthrop, NY
2013 – 2013 2014 - 2014	Barlas Benkli	Koc University School of Medicine; Istanbul, Turkey	Research mentor and supervisor	Medical Student, Turkey
2013 - 2013	Yavuz Ince	Koc University School of Medicine; Istanbul, Turkey	Research Mentor and supervisor	Medical Student, Turkey
2013 - 2013	Melda Sonmez	Koc University School of Medicine; Istanbul, Turkey	Research Mentor and supervisor	Medical Student, Turkey
2013 - 2013	Yelda Orhan	Koc University School of Medicine; Istanbul, Turkey	Research Mentor and supervisor	Medical Student, Turkey
2013 - 2013	Cagla Yasa	Koc University School of Medicine; Istanbul, Turkey	Research Mentor and supervisor	Medical Student, Turkey
2013 - 2013	Rumeysa Dogan	Dokuz Eylul Medical School; Izmir, Turkey	Research Mentor and supervisor	Medical Student, Turkey
2013 - 2014	Ozgenur Aktas	Koc University School of Medicine; Istanbul, Turkey	Research Mentor and supervisor	Medical Student, Turkey
2014 - 2014	Melis Gokce Celdir	Koc University School of Medicine, Istanbul Turkey	Research Mentor and supervisor	Medical Student, Turkey
2013 - 2013	Jesus Adrian Chavez Lopez	Universidad La Salle Mexico City, Mexico	Mentor	Pathology Resident, OSU, OH
2013 - 2014	John Okcuoglu	University of California Santa	Research Mentor and supervisor	Medical Student, Turkey

Dates	Name	Program or School	Role	Current Position
		Barbara		
2014 - 2015	Ece Meram	Koc University School of Medicine, Istanbul Turkey	Research Mentor and supervisor	Medical Student, Turkey
2015 - 2015	Cagri Demirel	Koc University School of Medicine, Istanbul Turkey	Research Mentor and supervisor	Medical Student, Turkey
2015 – 2015	Duriye Damla Sevgi	Koc University School of Medicine, Istanbul Turkey	Research Mentor and supervisor	Medical Student, Turkey

POSTDOCTORAL FELLOWS, RESIDENTS AND FACULTY DIRECTLY SUPERVISED

Dates	Name	Program	Faculty Role	Current Position
1997 - 1998	Henry Brown, MD PhD	Neuropathology fellowship	Direct Supervision	Faculty, Chicago, IL
1997 - 1999	Daniel J Brat, MD	Neuropathology fellowship	Direct Supervision	Faculty, Atlanta, FA
1998 - 1999	Khan Li, JHU	Short term rotation, and research project	Mentor	Attending Neurosurgeon, Memphis,TN
1999 - 2000	Arvand, Elihu, JHU	Short term rotation, and research project	Mentor	Attending Physician, Los Angeles CA
1999 – 2000 2006 - 2007	Eugene Ceppa, JHU	Mentoring and research project	Mentor	Attending Surgeon, Durham NC
1999 - 2000	Zsuzsanna Horvath, Vienna University	Visiting research fellowship	Mentor	Faculty, University of Vienna, Austria
1999 - 2001	Charles Eberhart MD JHU	Neuropathology fellowship	Direct Supervision	Faculty, Baltimore, MD
1999 - 2002	Ricardo Komotar, JHU	Short term rotation, and research project	Mentor	Faculty, New York NY
2000 - 2002	Kimmo Hatanpaa MD JHU	Neuropathology fellowship.	Direct Supervision	Faculty, Dallas, TX
2001 - 2002	Adeel Kaiser, JHU	Short term rotation, and research project	Mentor	Attending Radiation Oncologist, TX
2001 - 2002	Min Wang MD JHU	Neuropathology fellowship.	Direct Supervision	Faculty, Houston TX
2001 - 2002	Ty Abel, MD JHU	Short term rotation, and research project	Direct Supervision	Faculty, Albuquerque NM
2001 - 2002	Boris Hristov, JHU	Research Project	Mentor	Faculty, Baltimore, MD
2002 - 2003	William McDonald MD UCSF	Neuropathology fellowship, research project	Direct Supervision	Attending Neuropathologist, Minneapoils, MN
2002 - 2003	Nick Byrne, MD UCSF	Research project	Mentor	Attending Pathologist, Walnut Creek, CA

Dates	Name	Program	Faculty Role	Current Position
2002 - 2004	Agnieska, Niewmierzycka, MD UCSF	Research Project Neuropathology fellowship	Mentor	Research Associate, UCSF
2002 - 2003	Justine Barletta, UCSF	Research Project	Mentor	Faculty, Boston, MA
2003 - 2008	Anne Buckley, MD, PhD UCSF	Research Project Neuropathology fellowship	Mentor, Direct Supervision	Faculty, Durham, NC
2003 - 2004	Umit Turkoglu, MD, Turkey	Neuropathology Visiting Fellowship	Direct Supervision	Faculty, Istanbul Turkey
2003 - 2004	Lisa Pate, UCSF	Research Project	Mentor	Research Coordinator, Palo Alto CA
2003 - 2004	Amy Ly, UCSF	Research Project	Mentor	Faculty, New York NY
2003 - 2005	Marta Margeta MD UCSF	Neuropathology fellowship	Direct Supervision	Faculty, UCSF
2003 - 2005	Poonam, Vohra MD UCSF	Neuropathology Visiting Fellowship	Mentor	Faculty, UCSF
2005 - 2012	Michael Barnes, MD UCSF	Clinicopathological research project, Neuropathology fellowship	Mentor, Supervisor Direct Supervision	Pathologist, Menlo Park CA
2004 - 2006	Jennifer Raffel, MD	Clinicopathological research project	Mentor	Attending Pathologist, Cleveland, OH
2004 - 2005	Anil Bagri, MD, PhD UCSF	Research Project Mentorship	Mentor	Research Scientists, Biotech Industry, CA
2004 - 2005	Maurice Garcia, MD UCSF	Research Project Mentorship	Mentor	Faculty, UCSF
2005 - 2006	Seema Parikh, MD UCSF	Research Project Mentorship	Mentor	Attending Pathologist London UK
2005 - 2006	Sema Ozuysal MD Turkey	Neuropathology Visiting Fellowship	Mentor	Faculty, Bursa Turkey
2005 - 2008	Joanna Philips, MD PhD UCSF	Neuropathology fellowship	Fellowship faculty	Faculty, UCSF
2006 - 2010	Agne Naujokas, MD UCSF	Research Project Mentorship	Mentor	Attending Pathologist, Atlante GA
2006 - 2007	Andrea Pingitore, MD UCSF	Research Project Mentorship	Mentor	Attending Pathologist , San Mateo, CA
2006 - 2007	Raga Ramachandran MD UCSF	Resident, research project	Mentor	Faculty, UCSF
2006 - 2009	Jose Otero, MD UCSF	Research Project Mentorship	Mentor	Faculty, Cleveland OH
2007 - 2007	Javier Rangel, UCSF	MD with Thesis	Mentor	Attending Dermatologist, Los Angeles, CA
2007 - 2007	LiLi Miles, MD OCU	Visiting Scholar, COG Mentor-Mentee Program	Mentor	Faculty, Cincinnati, OH
2007 - 2007	Hulya Akgun, MD Turkey	Neuropathology Visiting Fellowship	Direct Supervision	Faculty, Kayseri Turkey

Dates	Name	Program	Faculty Role	Current Position
2007 - 2008	Ayca, Ersen, MD Turkey	Neuropathology Visiting Fellowship	Mentor	Faculty at Dokuz Eylul University, Turkey
2007 - 2008	Ashley Aiken, MD UCSF	Research Project	Mentor	Faculty, Atlanta GA
2007 - 2009	Han Sung Lee, MD PhD UCSF	UCSF Pathology, Neuropathology fellowship	Fellowship faculty	Faculty, UCSF
2008 - 2008	Abdullah Aydin, MD Turkey	Neuropathology Visiting Fellowship	Mentor	Faculty, Gaziantep, Turkey
2008 - 2009	Michael Sughrue, MD UCSF	Research Project	Mentor	Faculty Oklahoma City, OK
2008 - 2010	Jonathan Louie UCSF	Research Project	Mentor, Direct Supervision	Medical Student, Houston, TX
2008 - 2010	Edward F. Cheng, MD UCSF	Research Project	Mentor	Neurosurgery Faculty, UCSF
2008 - 2010	Brian Jian, MD UCSF	Research Project	Mentor	Attending Neurosurgeon, Los Angeles, CA
2008 - 2012	Seunggu Han MD UCSF	Research Project	Mentor	Fellow, UCSF
2008 - 2010	Isaac Yang, MD UCSF	Research Project	Mentor	Faculty, Los Angeles, CA
2008 - 2010	Jose Otero	Neuropathology fellowship	Fellowship faculty	Faculty, Columbus OH
2006 - 2008	James Waldron MD UCSF	Research Project	Mentor	Attending Neurosurgeon, Austin, TX
2009 - 2009	Nil Comunoglu MD Turkey	Neuropathology Visiting Fellowship	Mentor.	Attending Pathologist, Iatanbul,Turkey
2009 - 2013	Melike Pekmezci MD UCSF	Neuropathology Visiting Fellowship, Neuropathology Fellowship, Research Project	Fellowship faculty, Mentor, Direct Supervisiion	Faculty, UCSF
2009 - 2010	Michael Bonham, MD UCSF	Research Project	Mentor, Direct Supervision	Attending Pathologist, San FranciscoCA
2009 - 2010	Ari J Kane UCSF	Research Project	Mentor	Radiology Resident, Durham NC
2009 - 2011	Michelle Madden MD UCSF	Neuropathology fellowship	Direct Supervision	Attending Pathologist, Ann Arbor MI
2010 - 2014	Gerald Reis, MD UCSF	Neuropathology Fellow, Research Project	Mentor, Direct Supervision	Attending Neuropathologist, Miami, FL
2010 - 2012	Ellen Krasik, MD UCSF	Research Project	Mentor	Attending Pathologist Columbus, OH
2010 - 2011	Brad Barrows, MD UCSF	Research Project - Post sophomore fellowship	Mentor, Direct Supervision	Fellow, UCSF

Dates	Name	Program	Faculty Role	Current Position
2010 - 2010	Derick Aranda, MD UCSF	Research Project	Mentor	Pathology Resident, Rochester MN
2010 - 2011	Malak Abdelthagafi MD UCSF	Research Project	Mentor	Fellow, Boston, MA
2010 - 2013	Phiroz Tarapore, MD UCSF	Research Project Mentorship	Mentor	Faculty, UCSF
2011 - 2012	Doris Wang, MD PhD UCSF	Research Project	Mentor	Fellow, UCSF
2011 - 2011	Martin Rutkowski, MD UCSF	Research Project	Mentor	Fellow, UCSF
2011 - 2012	Cynthia Jimenez, MD UCSF	Research Project	Mentor, Direct Supervision	Attending Pathologist, Walnut Creek CA
2011 - 2014	Josh Menke, MD UCSF	Research Project	Mentor, Direct Supervision	Fellow, Baltimore, MD
2012 - 2012	Maria Valentina DiazRuiz, MD Venezuela	Neuropathology Visiting Fellowship	Direct Supervision	Attending Pathologist Caracas, Venezuela.
2011 - 2012	Gillian Genrich, MD UCSF	Research Project	Mentor	Fellow Atlanta, GA
2011 - 2012	Aseem Lal, MD UCSF	Neuropathology Fellowship	Fellowship faculty	Attending pathologist, San Francisco CA
2011 - 2012	Michael Cascio, MD UCSF	Research Project	Mentor, Direct Supervision	Faculty, Little Rock, AK
2011 - 2013	Annie Hiniker, MD PhD UCSF	Neuropathology Fellowship	Direct Supervision	Faculty, UCSF
2012 - 2012	Gulen Gul Niflioglu, MD Turkey	Neuropathology Visiting Fellowship Research Fellow	Mentor, Direct Supervision	Attending pathologist, Turkey
2012 - 2013	Jantima Tanboon MD Thailand	Neuropathology Visiting Fellowship	Direct Supervision	Attending Pathologist-Bangkok Thailand
2013 - 2013	Kemal Deniz, MD Turkey	Neuropathology Visiting Fellowship	Research Project Mentorship;	Attending Pathologist, Turkey
2013 - 2013	Hsin-Yi Huang Md Taiwan	Neuropathology Visiting Fellowship	Research Project Mentorship;	Attending Pathologist, Taipei, Taiwan
2013 - 2013	Wen-Chang Huang MD Taiwan	Neuropathology Visiting Fellowship	Research Project Mentorship;	Attending Pathologist, Taipei, Taiwan
2013 - 2013	Duygu Kuru, MD Turkey	Research Project Neuropathology Visiting Fellowship	Project Mentorship, Supervision	Attending Pathologist, Samsun, Turkey
2013 - 2014	Arzu Ilkay Cinar, MD Turkey	Research Project, Neuropathology Visiting Fellowship	Research Project Mentorship;	Attending Pathologist, Giresun, Turkey
2013 - 2014	Kathy Urankar MD Australia	Neuropathology Visiting Fellowship	Research Project Mentorship;	Attending Pathologist, Brisbane, Australia
2015 - 2015	Alejandra Santis MD Chile	Neuropathology Visiting Fellowship	Mentor, Direct Supervision	Attending Pathologist, Santiago Chile

Dates	Name	Program	Faculty Role	Current Position
2015 – 2015	Enrico Pegolo MD, Italy	Neuropathology Visiting Fellowship	Direct Supervision	Attending Pathologist Udine Italy
2015 - 2015	Zeynep Sagnak, MD	Neuropathology Visiting Fellowship	Mentor, Direct Supervision	Pathology Resident, Turkey

TEACHING AND MENTORING AWARDS AND NOMINATIONS

2000 W Barry Wood Jr Award for Teaching Excellence, JHU Medical School
2001 W Barry Wood Jr Award for Teaching Excellence, JHU Medical School
2002 UCSF Department of Pathology Teaching Excellence Award
2002 UCSF Department of Neurological Surgery, Dianne Ralston Basic Science
2004 UCSF Department of Neurological Surgery, Dianne Ralston Basic Science
2006 Teaching Recognition, Turkish Federation of Pathology Societies.
2007 Certificate of Recognition, 21st European Congress of Pathology
2008 Certificate of Recognition, Turkish Federation of Pathology Societies
2008 Certificate of Recognition, Cukurova Pathology Society
2008 Teaching Award, Ankara Pathology Society
2009 Teaching Award, AWADIAP West African Division of IAP
2010 Certificate of Recognition, Moroccan Society of Hematology and Oncology
2010 Certificate of Recognition, Turkish Federation of Pathology Societies
2011 Teaching Award Dokuz Eylul University School of Medicine
2011 Certificate of Recognition, Cukurova University School of Medicine
2012 Certificate of Recognition, Ege Pathology Society
2012 Teaching Award, Ecopathology Society of Turkiye
2012 Certificate of Recognition, Turkish Federation of Pathological Societies
2012 Teaching Award, Turgut Ozal University School of Medicine
2012 Certificate of Recognition, EURO-CNS
2013 Certificate of Recognition, Turkish Federation of Pathological Societies
2013 Teaching Award, World Federation of Neurological Societies, Turkish Division
2013 Certificate of Recognition, Selcuk University School of Medicine
2013 Teaching Award, Karadeniz Technical University, School of Medicine

SUMMARY OF TEACHING AND MENTORING HOURS

2004 - 2015 1200 total hours of teaching (including preparation); Formal class or course teaching hours: 125 hours; Informal class or course teaching hours: 400 hours; Mentoring hours: 500 hours. Other hours 175

2015 - 2016 Total anticipated hours of teaching: 1200 hours

RESEARCH AND CREATIVE ACTIVITIES

RESEARCH AWARDS

CURRENT

P30 CA82103 (McCormick)	08/01/2002 - 05/31/2007
NIH	$3,889,748 direct/yr1
Cancer Center Support Grant - Pathology Core. This grant provides support for the UCSF Cancer Center infrastructure and Program leadership. The Tissue Core collects, processes and distributes tissues to researchers. It provides full histology support, including slide preparation, stains, and pathology review.	
R01 CA52689 (Wrensch)	06/07/2006 - 04/30/2011
NIH / NCI	$1,208,567 direct/yr1
Genetic Epidemiology of Malignant Glioma. Investigate the genetic epidemiology of malignant glioma, a debilitating and rapidly fatal cancer.	
R01 (Barbaro)	04/01/2009 - 06/30/2012
NIH	$2,231,928 direct/yr1
Radiosurgery vs lobectomy for temporal lobe epilepsy: Phase 3 Clinical Trial. The purpose of this study is to compare the effectiveness of gamma knife radiosurgery with temporal lobectomy in the treatment of patients with pharmaco-resistant temporal lobe epilepsy.	
2R01NS034949 (Co-investigator)	07/01/2013 - 06/30/2018
NIH	
Predictors of spontaneous cerebral AVM hemorrhage	$858,494 total

PEER REVIEWED PUBLICATIONS (1989 onward)

1. Chiba P, **Tihan** T, Eher R, Koller U, Wallner C, Gobl R, Linkesch W. Effect of cell growth and cell differentiation on 1-beta-D-arabinofuranosylcytosine metabolism in myeloid cells. Br J Haematol 71, 451-455, 1989.

2. **Tihan** T, Chiba P, Eher R, Goebl R, Pernerstorfer T, Kraupp M, Kaiser E. Influence of Cell-Cycle on Glutathione-S-Transferase, Selenium-Dependent Glutathione-Peroxidase, Superoxide-Dismutase and Glutathione Levels in Human Myeloid-Leukemia Cell-Lines. Carcinogenesis 10, 1709-1712, 1989.

3. Chiba P, **Tihan** T, Szekeres T, Salamon J, Kraupp M, Eher R, Koller U, Knapp W. Concordant Changes of Pyrimidine Metabolism in Blasts of 2 Cases of Acute Myeloid-Leukemia after Repeated Treatment with Ara-C Invivo. Leukemia 4, 761-765, 1990.

4. Matsumoto M, **Tihan** T, Cory JG. Effect of Ribonucleotide Reductase Inhibitors on the Growth of Human Colon-Carcinoma Ht-29 Cells in Culture. Cancer Chemoth Pharm 26, 323-329, 1990.

5. **Tihan** T, Elford HL, Cory JG. Studies on the mechanisms of inhibition of L1210 cell growth by 3,4-dihydroxybenzohydroxamic acid and 3,4-dihydroxybenzamidoxime. Adv Enzyme Regul 31, 71-83, 1991.

6. **Tihan** T, Chiba P, Krupicka O, Fritzer M, Seitelberger R, Muller MM. Serum-Lipid Peroxide Levels in the Course of Coronary-Bypass Surgery. Eur J Clin Chem Clin 30, 205-208, 1992.

7. **Tihan** T, Filippa DA. Coexistence of renal cell carcinoma and malignant lymphoma. A causal relationship or coincidental occurrence? Cancer 77, 2325-2331, 1996.

8. Burger PC, Yu IT, **Tihan** T, Friedman HS, Strother DR, Kepner JL, Duffner PK, Kun LE, Perlman EJ. Atypical teratoid/rhabdoid tumor of the central nervous system: a highly malignant tumor of infancy and childhood frequently mistaken for medulloblastoma: a Pediatric Oncology Group study. Am J Surg Pathol 22, 1083-1092, 1998.

9. Can S, **Tihan** T, Alele J, Robbins RJ. Giant-cell granulomatous hypophysitis. Endocr Pract 4, 41-47, 1998.

10. Fisher PG, Jenab J, Gopldthwaite PT, **Tihan** T, Wharam MD, Foer DR, Burger PC. Outcomes and failure patterns in childhood craniopharyngiomas. Childs Nerv Syst 14, 558-563, 1998.

11. Ho LC, Olivi A, Cho CH, Burger PC, Simeone F, **Tihan** T. Well-differentiated papillary adenocarcinoma arising in a supratentorial enterogenous cyst: case report. Neurosurgery 43, 1474-1477, 1998.

12. Okia Z, **Tihan** T, Kane P. Clear cell carcinoma of the lung: Use of immunohistochemistry to determine primary vs metastatic origin. J Histotechnol 21, 159-164, 1998.

13. **Tihan** T, Blumgart L, Klimstra DS. Clear cell papillary carcinoma of the liver: an unusual variant of peripheral cholangiocarcinoma. Hum Pathol 29, 196-200, 1998.

14. **Tihan** T, Okun J. Pathology of lipomatous lesions in Proteus syndrome. Pediatr Dev Pathol 1, 443-448, 1998.

15. Anbazhagan R, **Tihan** T, Bornman DM, Johnston JC, Saltz JH, Weigering A, Piantadosi S, Gabrielson E. Classification of small cell lung cancer and pulmonary carcinoid by gene expression profiles. Cancer Res 59, 5119-5122, 1999.

16. **Tihan** T, Fisher PG, Kepner JL, Godfraind C, McComb RD, Goldthwaite PT, Burger PC. Pediatric astrocytomas with monomorphous pilomyxoid features and a less favorable outcome. J Neuropathol Exp Neurol 58, 1061-1068, 1999.

17. Burger PC, Cohen KJ, Rosenblum MK, **Tihan** T. Pathology of diencephalic astrocytomas. Pediatr Neurosurg 32, 214-219, 2000.

18. Duncan MD, **Tihan** T, Donovan DM, Phung QH, Rowley DL, Harmon JW, Gearhart PJ, Duncan KL. Esophagogastric adenocarcinoma in an E1A/E1B transgenic model involves p53 disruption. J Gastrointest Surg 4, 290-297, 2000.

19. Eberhart CG, **Tihan** T, Burger PC. Nuclear localization and mutation of beta-catenin in medulloblastomas. J Neuropathol Exp Neurol 59, 333-337, 2000.

20. Fisher PG, Breiter SN, Carson BS, Wharam MD, Williams JA, Weingart JD, Foer DR, Goldthwaite PT, **Tihan** T, Burger PC. A clinicopathologic reappraisal of brain stem tumor classification - Identification of pilocytic astrocytoma and fibrillary astrocytoma as distinct entities. Cancer 89, 1569-1576, 2000.

21. **Tihan** T, Davis R, Elowitz E, DiCostanzo D, Moll U. Practical value of Ki-67 and p53 labeling indexes in stereotactic biopsies of diffuse and pilocytic astrocytomas. Arch Pathol Lab Med 124, 108-113, 2000.

22. Eberhart CG, Kaufman WE, **Tihan** T, Burger PC. Apoptosis, neuronal maturation, and neurotrophin expression within medulloblastoma nodules. J Neuropathol Exp Neurol 60, 462-469, 2001.

23. Hurwitz MD, Burger PC, Goldthwaite PT, **Tihan** T, Wharam MD, Fisher PG. Prognostic implications for gadolinium enhancement of the meninges in low-grade astrocytomas of childhood. Pediatr Neurosurg 34, 88-93, 2001.

24. Mussa FF, Younes Z, **Tihan** T, Lacy BE. Anasarca and small bowel obstruction secondary to endometriosis. J Clin Gastroenterol 32, 167-171, 2001.

25. **Tihan** T, Burger PC, Pomper M, Sanchez O, Ramzan M, Eberhart CG, Hansen C, Smith TW. Subacute diencephalic angioencephalopathy: biopsy diagnosis and radiological features of a rare entity. Clin Neurol Neurosurg 103, 160-167, 2001.

26. **Tihan** T, Harmon JW, Wan X, Younes Z, Nass P, Duncan KL, Duncan MD. Evidence of androgen receptor expression in squamous and adenocarcinoma of the esophagus. Anticancer Res 21, 3107-3114, 2001.

27. Kim EK, Miller I, Landree LE, Borisy-Rudin FF, Brown P, **Tihan** T, Townsend CA, Witters LA, Moran TH, Kuhajda FP, Ronnett GV. Expression of FAS within hypothalamic neurons: a model for decreased food intake after C75 treatment. Am J Physiol Endocrinol Metab 283, E867-879, 2002.

28. Komotar RJ, Burger PC, Goldthwaite PT, **Tihan** T. Hypothalamic-chiasmatic astrocytomas with pilocytic and pilomyxoid morphology: A reappraisal of 63 cases. Neurosurgery 51, 552-553, 2002.

29. Kulesza P, **Tihan** T, Ali SZ. Myxopapillary ependymoma: cytomorphologic characteristics and differential diagnosis. Diagn Cytopathol 26, 247-250, 2002.

30. Lesniak MS, **Tihan** T, Olivi A. Solitary central nervous system metastasis from acinic cell carcinoma of the parotid gland. J Otolaryngol 31, 38-41, 2002.

31. Wong JM, Shermak MA, **Tihan** T, Jones CE. A subclavian artery aneurysm in a patient with HIV infection: a case report. J Vasc Surg 35, 1006-1009, 2002.

32. Arslanoglu A, Cirak B, Horska A, Okoh J, **Tihan** T, Aronson L, Avellino AM, Burger PC, Yousem DM. MR imaging characteristics of pilomyxoid astrocytomas. AJNR Am J Neuroradiol 24, 1906-1908, 2003.

33. Blouw B, Song HQ, **Tihan** T, Bosze J, Ferrara N, Gerber HP, Johnson RS, Bergers G. The hypoxic response of tumors is dependent on their microenvironment. Cancer Cell 4, 133-146, 2003.

34. Byrnes CK, Bahadursingh A, Akhter N, Parinandi NL, Natarajan V, Montgomery E, **Tihan** T, Duncan MD, Nass PH, Harmon JW. Duodenal reflux produces hyperproliferative epithelial esophagitis--a possible precursor to esophageal adenocarcinoma in the rat. J Gastrointest Surg 7, 172-180, 2003.

35. Eberhart CG, Cohen KJ, **Tihan** T, Goldthwaite PT, Burger PC. Medulloblastomas with systemic metastases: evaluation of tumor histopathology and clinical behavior in 23 patients. J Pediatr Hematol Oncol 25, 198-203, 2003.

36. Kaiser A, Spence RJ, Parwani A, **Tihan** T, Barrett TL. Basaloid follicular hamartoma with trichoblastomatous proliferations. J Cutan Med Surg 7, 395-398, 2003.

37. Li KW, Dang WB, Tyler BM, Troiano G, **Tihan** T, Brem H, Walter KA. Polilactofate microspheres for paclitaxel delivery to central nervous system malignancies. Clinical Cancer Research 9, 3441-3447, 2003.

38. Lucey BP, **Tihan** T, Pomper MG, Olivi A, Laterra J. Spinal meningioma causing diffuse leptomeningeal enhancement. Neurology 60, 350-351, 2003.

39. **Tihan** T, Viglione M, Rosenblum MK, Olivi A, Burger PC. Solitary fibrous tumors in the central nervous system - A clinicopathologic review of 18 cases and comparison to meningeal hemangiopericytomas. Archives of pathology & laboratory medicine 127, 432-439, 2003.

40. Waldron JS, **Tihan** T. Epidemiology and pathology of intraventricular tumors. Neurosurg Clin N Am 14, 469-482, 2003.

41. Frazier J, Garonzik I, **Tihan** T, Olivi A. Recurrent glioependymal cyst of the posterior fossa: an unusual entity containing mixed glial elements. Case report. J Neurooncol 68, 13-17, 2004.

42. Horvath Z, Bauer W, Hoechtl T, Saiko P, Fritzer-Szekeres M, **Tihan** T, Szekeres T. Combination chemotherapy of BCNU and Didox acts synergystically in 9L glioma cells. Nucleosides Nucleotides Nucleic Acids 23, 1531-1535, 2004.

43. Horvath Z, Hochtl T, Bauer W, Fritzer-Szekeres M, Elford HL, Szekeres T, **Tihan** T. Synergistic cytotoxicity of the ribonucleotide reductase inhibitor didox (3,4-dihydroxy-benzohydroxamic acid) and the alkylating agent carmustine (BCNU) in 9L rat gliosarcoma cells and DAOY human medulloblastoma cells. Cancer Chemother Pharmacol 54, 139-145, 2004.

44. Komotar RJ, Burger PC, Carson BS, Brem H, Olivi A, Goldthwaite PT, **Tihan** T. Pilocytic and pilomyxoid hypothalamic/chiasmatic astrocytomas. Neurosurgery 54, 72-79; discussion 79-80, 2004.

45. Komotar RJ, Mocco J, Carson BS, Sughrue ME, Zacharia BE, Sisti AC, Canoll PD, Khandji AG, **Tihan** T, Burger PC, Bruce JN. Pilomyxoid astrocytoma: a review. MedGenMed 6, 42, 2004.

46. Watson MA, Perry A, **Tihan** T, Prayson RA, Guha A, Bridge J, Ferner R, Gutmann DH. Gene expression profiling reveals unique molecular subtypes of Neurofibromatosis Type I-associated and sporadic malignant peripheral nerve sheath tumors. Brain Pathol 14, 297-303, 2004.

47. Abel TW, Baker SJ, Fraser MM, **Tihan** T, Nelson JS, Yachnis AT, Bouffard JP, Mena H, Burger

PC, Eberhart CG. Lhermitte-Duclos disease: a report of 31 cases with immunohistochemical analysis of the PTEN/AKT/mTOR pathway. J Neuropathol Exp Neurol 64, 341-349, 2005.

48. Calcagnotto ME, Paredes MF, **Tihan** T, Barbaro NM, Baraban SC. Dysfunction of synaptic inhibition in epilepsy associated with focal cortical dysplasia. J Neurosci 25, 9649-9657, 2005.

49. Cha S, **Tihan** T, Crawford F, Fischbein NJ, Chang S, Bollen A, Nelson SJ, Prados M, Berger MS, Dillon WP. Differentiation of low-grade oligodendrogliomas from low-grade astrocytomas by using quantitative blood-volume measurements derived from dynamic susceptibility contrast-enhanced MR imaging. AJNR Am J Neuroradiol 26, 266-273, 2005.

50. Crain BJ, Alston SR, Bruch LA, Hamilton RL, McLendon RE, Rhodes CH, **Tihan** T, Weidenheim KM. Accreditation council for graduate medical education (ACGME) competencies in neuropathology training. J Neuropathol Exp Neurol 64, 273-279, 2005.

51. Haas-Kogan DA, Prados MD, **Tihan** T, Eberhard DA, Jelluma N, Arvold ND, Baumber R, Lamborn KR, Kapadia A, Malec M, Berger MS, Stokoe D. Epidermal growth factor receptor, protein kinase B/Akt, and glioma response to erlotinib. J Natl Cancer Inst 97, 880-887, 2005.

52. Haas-Koogan DA, Prados MD, Lamborn KR, **Tihan** T, Berger MS, Stokoe D. Biomarkers to predict response to epidermal growth factor receptor inhibitors. Cell Cycle 4, 1369-1372, 2005.

53. Komotar RJ, Carson BS, Rao C, Chaffee S, Goldthwaite PT, **Tihan** T. Pilomyxoid astrocytoma of the spinal cord: report of three cases. Neurosurgery 56, 191, 2005.

54. Komotar RJ, Mocco J, Jones JE, Zacharia BE, **Tihan** T, Feldstein NA, Anderson RC. Pilomyxoid astrocytoma: diagnosis, prognosis, and management. Neurosurg Focus 18, E7, 2005.

55. Wang M, **Tihan** T, Rojiani AM, Bodhireddy SR, Prayson RA, Iacuone JJ, Alles AJ, Donahue DJ, Hessler RB, Kim JH, Haas M, Rosenblum MK, Burger PC. Monomorphous angiocentric glioma: a distinctive epileptogenic neoplasm with features of infiltrating astrocytoma and ependymoma. J Neuropathol Exp Neurol 64, 875-881, 2005.

56. Acosta FL, Jr., Dowd CF, Chin C, **Tihan** T, Ames CP, Weinstein PR. Current treatment strategies and outcomes in the management of symptomatic vertebral hemangiomas. Neurosurgery 58, 287-295; discussion 287-295, 2006.

57. Cha S, Yang L, Johnson G, Lai A, Chen MH, **Tihan** T, Wendland M, Dillon WP. Comparison of microvascular permeability measurements, K-trans, determined with conventional steady-state T1-weighted and first-pass T2*-weighted MR imaging methods in gliomas and meningiomas. Am J Neuroradiol 27, 409-417, 2006.

58. Jun P, Garcia J, **Tihan** T, McDermott MW, Cha S. Perfusion MR Imaging of an Intracranial Collision Tumor Confirmed by Image-Guided Biopsy. AJNR Am J Neuroradiol 27, 94-97, 2006.

59. Keles GE, Chang EF, Lamborn KR, **Tihan** T, Chang CJ, Chang SM, Berger MS. Volumetric extent of resection and residual contrast enhancement on initial surgery as predictors of outcome in adult patients with hemispheric anaplastic astrocytoma. J Neurosurg 105, 34-40, 2006.

60. Qaddoumi I, Ceppa EP, Mansour A, Sughayer MA, **Tihan** T. Desmoplastic noninfantile ganglioglioma: report of a case. Pediatr Dev Pathol 9, 462-467, 2006.

61. Sanchez-Mejia RO, Limbo M, **Tihan** T, Galvez MG, Woodward MV, Gupta N. Intracranial dermoid cyst mimicking hemorrhage - Case report and review of the literature. Journal of neurosurgery 105, 311-314, 2006.

62. Sanchez-Mejia RO, Pham DN, Prados M, **Tihan** T, Cha S, El-Sayed I, McDermott MW. Management of a sporadic malignant subfrontal peripheral nerve sheath tumor. J Neurooncol 76, 165-169, 2006.

63. **Tihan** T, Barletta J, Parney I, Lamborn K, Sneed PK, Chang S. Prognostic value of detecting recurrent glioblastoma multiforme in surgical specimens from patients after radiotherapy: should pathology evaluation atter treatment decisions? Human Pathology 37, 272-282, 2006.

64. **Tihan** T, Chi JH, McCormick PC, Ames CP, Parsa AT. Pathologic and epidemiologic findings of intramedullary spinal cord tumors. Neurosurg Clin N Am 17, 7-11, 2006.

65. **Tihan** T, Vohra P, Berger MS, Keles GE. Definition and diagnostic implications of gemistocytic astrocytomas: a pathological perspective. J Neurooncol 76, 175-183, 2006.

66. Waldron JS, **Tihan** T, Parsa AT. Solitary fibrous tumor arising from Cranial Nerve VI in the prepontine cistern: case report and review of a tumor subpopulation mimicking schwannoma. Neurosurgery 59, E939-940; discussion E940, 2006.

67. Brat DJ, Scheithauer BW, Fuller GN, **Tihan** T. Newly Codified Glial Neoplasms of the 2007 WHO Classification of Tumours of the Central Nervous System: Angiocentric Glioma, Pilomyxoid Astrocytoma and Pituicytoma. Brain Pathol 17, 319-324, 2007.

68. Ceppa EP, Bouffet E, Griebel R, Robinson C, **Tihan** T. The pilomyxoid astrocytoma and its relationship to pilocytic astrocytoma: report of a case and a critical review of the entity. J Neurooncol 81, 191-196, 2007.

69. Chesler L, Goldenberg DD, Seales IT, Satchi-Fainaro R, Grimmer M, Collins R, Struett C, Nguyen KN, Kim G, **Tihan** T, Bao Y, Brekken RA, Bergers G, Folkman J, Weiss WA. Malignant progression and blockade of angiogenesis in a murine transgenic model of neuroblastoma. Cancer Res 67, 9435-9442, 2007.

70. Du R, Hashimoto T, **Tihan** T, Young WL, Perry V, Lawton MT. Growth and regression of arteriovenous malformations in a patient with hereditary hemorrhagic telangiectasia - Case report. Journal of neurosurgery 106, 470-477, 2007.

71. Huynh GH, Ozawa T, Deen DF, **Tihan** T, Szoka FC, Jr. Retro-convection enhanced delivery to increase blood to brain transfer of macromolecules. Brain Res 1128, 181-190, 2007.

72. Parsa AT, Waldron JS, Panner A, Crane CA, Parney IF, Barry JJ, Cachola KE, Murray JC, **Tihan** T, Jensen MC, Mischel PS, Stokoe D, Pieper RO. Loss of tumor suppressor PTEN function increases B7-H1 expression and immunoresistance in glioma. Nat Med 13, 84-88, 2007.

73. Qaddoumi I, Mansour A, Musharbash A, Drake J, Swaidan M, **Tihan** T, Bouffet E. Impact of telemedicine on pediatric neuro-oncology in a developing country: The Jordanian-Canadian experience. Pediatr Blood Cancer 48, 39-43, 2007.

74. **Tihan** T, Griffin A, Ozuysal S. Primary sarcomas of the central nervous system: UCSF experience (1985-2005). Turkish Journal of Pathology 23, 5-15, 2007.

75. Ware ML, Hirose Y, Scheithauer BW, Yeh RF, Mayo MC, Smith JS, Chang S, Cha S, **Tihan** T, Feuerstein BG. Genetic aberrations in gliomatosis cerebri. Neurosurgery 60, 150-158; discussion 158, 2007.

76. Wiencke JK, Zheng S, Jelluma N, **Tihan** T, Vandenberg S, Tamguney T, Baumber R, Parsons R, Lamborn KR, Berger MS, Wrensch MR, Haas-Kogan DA, Stokoe D. Methylation of the PTEN promoter defines low-grade gliomas and secondary glioblastoma. Neurooncology 9, 271-279, 2007.

77. Acosta FL, Jr., Sanai N, Chi JH, Dowd CF, Chin C, **Tihan** T, Chou D, Weinstein PR, Ames CP. Comprehensive management of symptomatic and aggressive vertebral hemangiomas. Neurosurg Clin N Am 19, 17-29, 2008.

78. Bar EE, Lin A, **Tihan** T, Burger PC, Eberhart CG. Frequent gains at chromosome 7q34 involving BRAF in pilocytic astrocytoma. J Neuropathol Exp Neurol 67, 878-887, 2008.

79. Bondy ML, Scheurer ME, Malmer B, Barnholtz-Sloan JS, Davis FG, Il'Yasova D, Kruchko C, McCarthy BJ, Rajaraman P, Schwartzbaum JA, Sadetzki S, Schlehofer B, **Tihan** T, Wiemels JL, Wrensch M, Buffler PA, Consortium BTE. Brain tumor epidemiology: Consensus from the Brain Tumor Epidemiology Consortium. Cancer 113, 1953-1968, 2008.

80. Chang JS, Yeh RF, Wiencke JK, Wiemels JL, Smirnov I, Pico AR, **Tihan** T, Patoka J, Miike R, Sison JD, Rice T, Wrensch MR. Pathway analysis of single-nucleotide polymorphisms potentially associated with glioblastoma multiforme susceptibility using random forests. Cancer Epidemiol Biomarkers Prev 17, 1368-1373, 2008.

81. Chesler L, Goldenberg DD, Collins R, Grimmer M, Kim GE, **Tihan** T, Nguyen K, Yakovenko S, Matthay KK, Weiss WA. Chemotherapy-induced apoptosis in a transgenic model of neuroblastoma proceeds through p53 induction. Neoplasia 10, 1268-1274, 2008.

82. Davis FG, Malmer BS, Aldape K, Barnholtz-Sloan JS, Bondy ML, Brannstrom T, Bruner JM, Burger PC, Collins VP, Inskip PD, Kruchko C, McCarthy BJ, McLendon RE, Sadetzki S, **Tihan** T, Wrensch MR, Buffler PA. Issues of diagnostic review in brain tumor studies: from the brain tumor epidemiology consortium. Cancer Epidemiol Biomarkers Prev 17, 484-489, 2008.

83. Fisher PG, **Tihan** T, Goldthwaite PT, Wharam MD, Carson BS, Weingart JD, Repka MX, Cohen KJ, Burger PC. Outcome analysis of childhood low-grade astrocytomas. Pediatr Blood Cancer 51, 245-250, 2008.

84. Komotar RJ, Zacharia BE, Sughrue ME, Mocco J, Carson BS, **Tihan** T, Otten ML, Burger PC, Garvin JH, Khandji AG, Anderson RC. Magnetic resonance imaging characteristics of pilomyxoid astrocytoma. Neurol Res 30, 945-951, 2008.

85. MacKay JA, Li W, Huang Z, Dy EE, Huynh G, **Tihan** T, Collins R, Deen DF, Szoka FC, Jr. HIV TAT peptide modifies the distribution of DNA nanolipoparticles following convection-enhanced delivery. Mol Ther 16, 893-900, 2008.

86. Pang J, Banerjee A, **Tihan** T. The value of tandem CSF/MRI evaluation for predicting disseminated disease in childhood central nervous system neoplasms. J Neurooncol 87, 97-102, 2008.

87. Ramachandran R, Lee HS, Matthews B, Shatzel A, **Tihan** T. Intradural extramedullary leptomeningeal hemangioblastomatosis and paraneoplastic limbic encephalitis diagnosed at autopsy: an unlikely pair. Arch Pathol Lab Med 132, 104-108, 2008.

88. Smith JS, Chang EF, Lamborn KR, Chang SM, Prados MD, Cha S, **Tihan** T, Vandenberg S, McDermott MW, Berger MS. Role of extent of resection in the long-term outcome of low-grade hemispheric gliomas. J Clin Oncol 26, 1338-1345, 2008.

89. Swain RS, **Tihan** T, Horvai AE, Di Vizio D, Loda M, Burger PC, Scheithauer BW, Kim GE. Inflammatory myofibroblastic tumor of the central nervous system and its relationship to inflammatory pseudotumor. Hum Pathol 39, 410-419, 2008.

90. **Tihan** T, Ersen A. Pathology of malignant gliomas: Challenges of everyday practice and the WHO 2007. Turkish Journal of Pathology 24, 194-212, 2008.

91. **Tihan** T, Zhou T, Holmes E, Burger PC, Ozuysal S, Rushing EJ. The prognostic value of histological grading of posterior fossa ependymomas in children: a Children's Oncology Group study and a review of prognostic factors. Mod Pathol 21, 165-177, 2008.

92. Valcour V, Haman A, Cornes S, Lawall C, Parsa AT, Glaser C, Yagi S, **Tihan** T, Bhatnagar J, Geschwind M. A case of enteroviral meningoencephalitis presenting as rapidly progressive dementia. Nat Clin Pract Neurol 4, 399-403, 2008.

93. Wintermark M, Jawadi SS, Rapp JH, **Tihan** T, Tong E, Glidden DV, Abedin S, Schaeffer S, Acevedo-Bolton G, Boudignon B, Orwoll B, Pan X, Saloner D. High-resolution CT imaging of carotid artery atherosclerotic plaques. AJNR Am J Neuroradiol 29, 875-882, 2008.

94. Aiken AH, Akgun H, **Tihan** T, Barbaro N, Glastonbury C. Calcifying pseudoneoplasms of the neuraxis: CT, MR imaging, and histologic features. AJNR Am J Neuroradiol 30, 1256-1260, 2009.

95. Barnes M, Eberhart CG, Collins R, **Tihan** T. Expression of p75NTR in fetal brain and medulloblastomas: evidence of a precursor cell marker and its persistence in neoplasia. J Neurooncol 92, 193-201, 2009.

96. Fung KM, **Tihan** T. Internet and World Wide Web-based tools for neuropathology practice and education. Brain Pathol 19, 323-331, 2009.

97. Heiser MA, Waldron JS, **Tihan** T, Parsa AT, Cheung SW. Temporal fossa hemangiopericytoma: a case series. Otol Neurotol 30, 985-989, 2009.

98. Lee EB, **Tihan** T, Scheithauer BW, Zhang PJ, Gonatas NK. Thyroid Transcription Factor 1 Expression in Sellar Tumors: A Histogenetic Marker? J Neuropathol Exp Neurol 68, 482-488, 2009.

99. Pico AR, Smirnov IV, Chang JS, Yeh RF, Wiemels JL, Wiencke JK, **Tihan** T, Conklin BR, Wrensch M. SNPLogic: an interactive single nucleotide polymorphism selection, annotation, and prioritization system. Nucleic Acids Res 37, D803-809, 2009.

100. Tate MC, Banerjee A, Vandenberg SR, **Tihan** T, Chi JH, Ames CP, Parsa AT. Post-radiation reactive changes in a single vertebral body mimicking metastatic pineoblastoma. Journal of neurosurgery 4, 479-483, 2009.

101. Wrensch M, Jenkins RB, Chang JS, Yeh RF, Xiao Y, Decker PA, Ballman KV, Berger M, Buckner JC, Chang S, Giannini C, Halder C, Kollmeyer TM, Kosel ML, LaChance DH, McCoy L, O'Neill BP, Patoka J, Pico AR, Prados M, Quesenberry C, Rice T, Rynearson AL, Smirnov I, **Tihan** T, Wiemels J, Yang P, Wiencke JK. Variants in the CDKN2B and RTEL1 regions are associated with high-grade glioma susceptibility. Nat Genet 41, 905-908, 2009.

102. Yeung AH, Sughrue ME, Kane AJ, **Tihan** T, Cheung SW, Parsa AT. Radiobiology of vestibular schwannomas: mechanisms of radioresistance and potential targets for therapeutic sensitization. Neurosurg Focus 27, E2, 2009.

103. Chang EF, Christie C, Sullivan JE, Garcia PA, **Tihan** T, Gupta N, Berger MS, Barbaro NM. Seizure control outcomes after resection of dysembryoplastic neuroepithelial tumor in 50 patients. Journal of neurosurgery 5, 123-130, 2010.

104. Clark AJ, Lu DC, Richardson RM, **Tihan** T, Parsa AT, Chou D, Barbaro NM, Kunwar S, Weinstein PR, Lawton MT, Berger MS, McDermott MW. Surgical technique of temporary arterial occlusion in the operative management of spinal hemangioblastomas. World Neurosurg 74, 200-205, 2010.

105. Deipolyi A, Auguste KI, Yang I, **Tihan** T, Parsa AT. Occipital ganglioglioma in an older adult. J Clin Neurosci 17, 1459-1461, 2010.

106. Dhand A, Nakagawa K, Nagpal S, Gelfand JM, Kim AS, Smith WS, **Tihan** T. Cardiac rupture after intravenous t-PA administration in acute ischemic stroke. Neurocrit Care 13, 261-262, 2010.

107. Han SJ, Yang I, Ahn BJ, Otero JJ, **Tihan** T, McDermott MW, Berger MS, Prados MD, Parsa AT. Clinical characteristics and outcomes for a modern series of primary gliosarcoma patients. Cancer 116, 1358-1366, 2010.

108. Han SJ, Yang I, Otero JJ, Ahn BJ, **Tihan** T, McDermott MW, Berger MS, Chang SM, Parsa AT. Secondary gliosarcoma after diagnosis of glioblastoma: clinical experience with 30 consecutive patients. J Neurosurg 112, 990-996, 2010.

109. Han SJ, Yang I, **Tihan** T, Chang SM, Parsa AT. Secondary gliosarcoma: a review of clinical features and pathological diagnosis. J Neurosurg 112, 26-32, 2010.

110. Han SJ, Yang I, **Tihan** T, Prados MD, Parsa AT. Primary gliosarcoma: key clinical and pathologic distinctions from glioblastoma with implications as a unique oncologic entity. J Neurooncol 96, 313-320, 2010.

111. Jian BJ, Bloch OG, Yang I, Han SJ, Aranda D, **Tihan** T, Parsa AT. Adjuvant radiation therapy and chondroid chordoma subtype are associated with a lower tumor recurrence rate of cranial chordoma. J Neurooncol 98, 101-108, 2010.

112. Jian BJ, Han SJ, Yang I, Waldron JS, **Tihan** T, Parsa AT. Surgical resection and adjuvant radiotherapy for a large pineal hemangiopericytoma. J Clin Neurosci 17, 1209-1211, 2010.

113. Johnson MW, Eberhart CG, Perry A, **Tihan** T, Cohen KJ, Rosenblum MK, Rais-Bahrami S, Goldthwaite P, Burger PC. Spectrum of pilomyxoid astrocytomas: intermediate pilomyxoid tumors. Am J Surg Pathol 34, 1783-1791, 2010.

114. Nicolaides T, **Tihan** T, Horn B, Biegel J, Prados M, Banerjee A. High-dose chemotherapy and autologous stem cell rescue for atypical teratoid/rhabdoid tumor of the central nervous system. J Neurooncol 98, 117-123, 2010.

115. Pekmezci M, Louie J, Gupta N, Bloomer MM, **Tihan** T. Clinicopathological characteristics of adamantinomatous and papillary craniopharyngiomas: University of California, San Francisco experience 1985-2005. Neurosurgery 67, 1341-1349; discussion 1349, 2010.

116. Phillips JJ, Misra A, Feuerstein BG, Kunwar S, **Tihan** T. Pituicytoma: characterization of a unique neoplasm by histology, immunohistochemistry, ultrastructure, and array-based comparative genomic hybridization. Arch Pathol Lab Med 134, 1063-1069, 2010.

117. Swartling FJ, Grimmer MR, Hackett CS, Northcott PA, Fan QW, Goldenberg DD, Lau J, Masic S, Nguyen K, Yakovenko S, Zhe XN, Gilmer HC, Collins R, Nagaoka M, Phillips JJ, Jenkins RB, **Tihan** T, Vandenberg SR, James CD, Tanaka K, Taylor MD, Weiss WA, Chesler L. Pleiotropic role for MYCN in medulloblastoma. Genes Dev 24, 1059-1072, 2010.

118. **Tihan** T, Bloomer MM. Astrocytic neoplasms of the central nervous system and orbit: a morphologic perspective. Semin Diagn Pathol 27, 114-121, 2010.

119. Waldron JS, Yang I, Han S, **Tihan** T, Sughrue ME, Mills SA, Pieper RO, Parsa AT. Implications for immunotherapy of tumor-mediated T-cell apoptosis associated with loss of the tumor suppressor PTEN in glioblastoma. J Clin Neurosci 17, 1543-1547, 2010.

120. Yang I, **Tihan** T, Han SGJ, Wrensch MR, Wiencke J, Sughrue ME, Parsa AT. CD8+T-cell infiltrate in newly diagnosed glioblastoma is associated with long-term survival. Journal of Clinical Neuroscience 17, 1381-1385, 2010.

121. Barry JJ, Jian BJ, Sughrue ME, Kane AJ, Mills SA, **Tihan** T, Parsa AT. The next step: innovative molecular targeted therapies for treatment of intracranial chordoma patients. Neurosurgery 68, 231-240; discussion 240-231, 2011.

122. Barry JJ, Jian BJ, Sughrue ME, Kane AJ, Mills SA, **Tihan** T, Parsa AT. The Next Step: Innovative Molecular Targeted Therapies for Treatment of Intracranial Chordoma Patients. Neurosurgery 68, 231-240, 2011.

123. Chang EF, Wang DD, Barkovich AJ, **Tihan** T, Auguste KI, Sullivan JE, Garcia PA, Barbaro NM. Predictors of seizure freedom after surgery for malformations of cortical development. Ann Neurol 70, 151-162, 2011.

124. Jenkins RB, Wrensch MR, Johnson D, Fridley BL, Decker PA, Xiao Y, Kollmeyer TM, Rynearson AL, Fink S, Rice T, McCoy LS, Halder C, Kosel ML, Giannini C, **Tihan** T, O'Neill BP, Lachance DH, Yang P, Wiemels J, Wiencke JK. Distinct germ line polymorphisms underlie glioma morphologic heterogeneity. Cancer Genet 204, 13-18, 2011.

125. Jimenez C, Powers M, Parsa AT, Glastonbury C, Hagenkord JM, **Tihan** T. Sarcoma arising as a distinct nodule within glioblastoma: a morphological and molecular perspective on gliosarcoma. J Neurooncol 105, 317-323, 2011.

126. Kane AJ, Sughrue ME, Rutkowski MJ, **Tihan** T, Parsa AT. The molecular pathology of central neurocytomas. J Clin Neurosci 18, 1-6, 2011.

127. Otero JJ, **Tihan** T. Morphological analysis of CDC2 and glycogen synthase kinase 3beta phosphorylation as markers of g2 --> m transition in glioma. Patholog Res Int 2011, 216086, 2011.

128. Oz B, Pekmezci M, Dashti R, Karaman K, Kuday C, **Tihan** T. Emergence of a high-grade sarcoma in a recurrent meningioma: malignant progression or collision tumor? Arch Pathol Lab Med 135, 935-940, 2011.

129. Rutkowski MJ, Bloch O, Jian BJ, Chen C, Sughrue ME, **Tihan** T, Barani IJ, Berger MS, McDermott MW, Parsa AT. Management of recurrent intracranial hemangiopericytoma. J Clin Neurosci 18, 1500-1504, 2011.

130. Sughrue ME, Kaur R, Kane AJ, Rutkowski MJ, Yang I, Pitts LH, **Tihan** T, Parsa AT. Intratumoral hemorrhage and fibrosis in vestibular schwannoma: a possible mechanism for hearing loss. J Neurosurg 114, 386-393, 2011.

131. **Tihan** T, Pekmezci M, Karnezis A. Neural stem cells and their role in the pathology and classification of central nervous system tumors. Turk Patoloji Derg 27, 1-11, 2011.

132. Yang I, Chang EF, Han SJ, Barry JJ, Fang S, **Tihan** T, Barbaro NM, Parsa AT. Early surgical intervention in adult patients with ganglioglioma is associated with improved clinical seizure outcomes. J Clin Neurosci 18, 29-33, 2011.

133. Yang I, Han SJ, Sughrue ME, **Tihan** T, Parsa AT. Immune cell infiltrate differences in pilocytic astrocytoma and glioblastoma: evidence of distinct immunological microenvironments that reflect tumor biology. J Neurosurg 115, 505-511, 2011.

134. Yu J, Deshmukh H, Payton JE, Dunham C, Scheithauer BW, **Tihan** T, Prayson RA, Guha A, Bridge JA, Ferner RE, Lindberg GM, Gutmann RJ, Emnett RJ, Salavaggione L, Gutmann DH, Nagarajan R, Watson MA, Perry A. Array-Based Comparative Genomic Hybridization Identifies CDK4 and FOXM1 Alterations as Independent Predictors of Survival in Malignant Peripheral Nerve Sheath Tumor. Clin Cancer Res 17, 1924-1934, 2011.

135. Zheng SC, Houseman EA, Morrison Z, Wrensch MR, Patoka JS, Ramos C, Haas-Kogan DA, McBride S, Marsit CJ, Christensen BC, Nelson HH, Stokoe D, Wiemels JL, Chang SM, Prados MD, **Tihan** T, Vandenberg SR, Kelsey KT, Berger MS, Wiencke JK. DNA hypermethylation profiles associated with glioma subtypes and EZH2 and IGFBP2 mRNA expression. Neuro-Oncology 13, 280-289, 2011.

136. Baia GS, Caballero OL, Orr BA, Lal A, Ho JSY, Cowdrey C, **Tihan** T, Mawrin C, Riggins GJ. Yes-Associated Protein 1 Is Activated and Functions as an Oncogene in Meningiomas. Molecular Cancer Research 10, 904-913, 2012.

137. Barrows BD, Rutkowski MJ, Gultekin SH, Parsa AT, **Tihan** T. Evidence of Ambiguous Differentiation and mTOR Pathway Dysregulation in Subependymal Giant Cell Astrocytoma. Turk Patoloji Derg 28, 95-103, 2012.

138. Calkins S, Silva F, **Tihan** T. The role of pathology experts in defining practice gaps in continuing pathology education: what do we need to know and how can we find them? Adv Anat Pathol 19, 187-190, 2012.

139. Ekmekci S, Nacar OA, **Tihan** T. Who Owns These Tissues? General Principles on the Use of Material Submitted to Pathology Departments for Healthcare, Education and Research Purposes. Turk Patoloji Derg 28, 189-194, 2012.

140. Guo Y, Saunders T, Su H, Kim H, Akkoc D, Saloner DA, Hetts SW, Hess C, Lawton MT, Bollen AW, Pourmohamad T, McCulloch CE, **Tihan** T, Young WL. Silent Intralesional Microhemorrhage as a Risk Factor for Brain Arteriovenous Malformation Rupture. Stroke 43, 1240-1246, 2012.

141. Hasan DM, Amans M, **Tihan** T, Hess C, Guo Y, Cha S, Su H, Martin AJ, Lawton MT, Neuwelt EA, Saloner DA, Young WL. Ferumoxytol-enhanced MRI to Image Inflammation within Human Brain Arteriovenous Malformations: A Pilot Investigation. Translational stroke research 3, 166-173, 2012.

142. Huang X, Dubuc AM, Hashizume R, Berg J, He Y, Wang J, Chiang C, Cooper MK, Northcott PA, Taylor MD, Barnes MJ, **Tihan** T, Chen J, Hackett CS, Weiss WA, James CD, Rowitch DH, Shuman MA, Jan YN, Jan LY. Voltage-gated potassium channel EAG2 controls mitotic entry and tumor growth in medulloblastoma via regulating cell volume dynamics. Genes Dev 26, 1780-1796, 2012.

143. Jenkins RB, Xiao Y, Sicotte H, Decker PA, Kollmeyer TM, Hansen HM, Kosel ML, Zheng S, Walsh KM, Rice T, Bracci P, McCoy LS, Smirnov I, Patoka JS, Hsuang G, Wiemels JL, **Tihan** T, Pico AR, Prados MD, Chang SM, Berger MS, Caron AA, Fink SR, Halder C, Rynearson AL, Fridley BL, Buckner JC, O'Neill BP, Giannini C, Lachance DH, Wiencke JK, Eckel-Passow JE, Wrensch MR. A low-frequency variant at 8q24.21 is strongly associated with risk of oligodendroglial tumors and astrocytomas with IDH1 or IDH2 mutation. Nat Genet, 2012.

144. Oh MC, **Tihan** T, Kunwar S, Blevins L, Aghi MK. Clinical management of pituitary carcinomas. Neurosurg Clin N Am 23, 595-606, 2012.

145. Rutkowski MJ, Jian BJ, Bloch O, Chen C, Sughrue ME, **Tihan** T, Barani IJ, Berger MS, McDermott MW, Parsa AT. Intracranial hemangiopericytoma: clinical experience and treatment considerations in a modern series of 40 adult patients. Cancer 118, 1628-1636, 2012.

146. Schoenfeld A, Pekmezci M, Barnes MJ, **Tihan** T, Gupta N, Lamborn KR, Banerjee A, Mueller S, Chang S, Berger MS, Haas-Kogan D. The superiority of conservative resection and adjuvant radiation for craniopharyngiomas. J Neurooncol 108, 133-139, 2012.

147. **Tihan** T, Ersen A, Qaddoumi I, Sughayer MA, Tolunay S, Al-Hussaini M, Phillips J, Gupta N, Goldhoff P, Baneerjee A. Pathologic characteristics of pediatric intracranial pilocytic astrocytomas and their impact on outcome in 3 countries: a multi-institutional study. Am J Surg Pathol 36, 43-55, 2012.

148. Xiao Y, Decker PA, Rice T, McCoy LS, Smirnov I, Patoka JS, Hansen HM, Wiemels JL, **Tihan** T, Prados MD, Chang SM, Berger MS, Kosel ML, Fridley BL, Lachance DH, O'Neill BP, Buckner JC, Thompson RC, Nabors LB, Olson JJ, Brem S, Madden MH, Browning JE, Wiencke JK, Egan KM, Jenkins RB, Wrensch MR. SSBP2 variants are associated with survival in glioblastoma patients. Clin Cancer Res 18, 3154-3162, 2012.

149. Chen W, Guo Y, Walker EJ, Shen F, Jun K, Oh SP, Degos V, Lawton MT, **Tihan** T, Davalos D, Akassoglou K, Nelson J, Pile-Spellman J, Su H, Young WL. Reduced mural cell coverage and impaired vessel integrity after angiogenic stimulation in the Alk1-deficient brain. Arteriosclerosis, thrombosis, and vascular biology 33, 305-310, 2013.

150. Joseph NM, Phillips J, Dahiya S, M MF, **Tihan** T, Brat DJ, Perry A. Diagnostic implications of IDH1-R132H and OLIG2 expression patterns in rare and challenging glioblastoma variants. Mod Pathol 26, 315-326, 2013.

151. Kahramancetin N, **Tihan** T. Aggressive behavior and anaplasia in pleomorphic xanthoastrocytoma: a plea for a revision of the current WHO classification. CNS oncology 2, 523-530, 2013.

152. Kaur G, Kane AJ, Sughrue ME, Oh M, Safaee M, Sun M, **Tihan** T, McDermott MW, Berger MS, Parsa AT. MIB-1 labeling index predicts recurrence in intraventricular central neurocytomas. J Clin Neurosci 20, 89-93, 2013.

153. Kliot T, Ince Y, **Tihan** T, Wilson M, Kliot M. To grow or not to grow, That is the question. Surgical neurology international 4, S407-410, 2013.

154. McKean-Cowdin R, Razavi P, Barrington-Trimis J, Baldwin RT, Asgharzadeh S, Cockburn M, **Tihan** T, Preston-Martin S. Trends in childhood brain tumor incidence, 1973-2009. J Neurooncol, 2013.

155. Mukherjee A, Bylund Q, Prasanna M, Margalit Y, **Tihan** T. Spectroscopic imaging of serum proteins using quantum cascade lasers. Journal of biomedical optics 18, 036011, 2013.

156. Reis GF, Bloomer MM, Perry A, Phillips JJ, Grenert JP, Karnezis AN, **Tihan** T. Pilocytic astrocytomas of the optic nerve and their relation to pilocytic astrocytomas elsewhere in the central nervous system. Mod Pathol 26, 1279-1287, 2013.

157. Rice T, Zheng S, Decker PA, Walsh KM, Bracci P, Xiao Y, McCoy LS, Smirnov I, Patoka JS, Hansen HM, Hsuang G, Wiemels JL, **Tihan** T, Pico AR, Prados MD, Chang SM, Berger MS, Caron A, Fink S, Kollmeyer T, Rynearson A, Voss J, Kosel ML, Fridley BL, Lachance DH, Eckel-Passow JE, Sicotte H, O'Neill BP, Giannini C, Wiencke JK, Jenkins RB, Wrensch MR. Inherited variant on chromosome 11q23 increases susceptibility to IDH-mutated but not IDH-normal gliomas regardless of grade or histology. Neuro Oncol 15, 535-541, 2013.

158. Rowland NC, Jermakowicz WJ, **Tihan** T, El-Sayed IH, McDermott MW. Subacute cystic expansion of intracranial juvenile psammomatoid ossifying fibroma. Journal of neurosurgery 11, 687-691, 2013.

159. Safaee M, Clark AJ, **Tihan** T, Parsa AT, Bloch O. Falcine and parasagittal chondrosarcomas. J Clin Neurosci 20, 1232-1236, 2013.

160. Safaee M, Oh MC, Bloch O, Sun MZ, Kaur G, Auguste KI, **Tihan** T, Parsa AT. Choroid plexus papillomas: advances in molecular biology and understanding of tumorigenesis. Neuro Oncol 15, 255-267, 2013.

161. Scott BJ, Douglas VC, **Tihan** T, Rubenstein JL, Josephson SA. A systematic approach to the diagnosis of suspected central nervous system lymphoma. JAMA neurology 70, 311-319, 2013.

162. Shchors K, Persson AI, Rostker F, **Tihan** T, Lyubynska N, Li N, Swigart LB, Berger MS, Hanahan D, Weiss WA, Evan GI. Using a preclinical mouse model of high-grade astrocytoma to optimize p53 restoration therapy. Proceedings of the National Academy of Sciences of the United States of America 110, E1480-1489, 2013.

163. Tarapore PE, Modera P, Naujokas A, Oh MC, Amin B, **Tihan** T, Parsa AT, Ames CP, Chou D, Mummaneni PV, Weinstein PR. Pathology of spinal ependymomas: an institutional experience over 25 years in 134 patients. Neurosurgery 73, 247-255; discussion 255, 2013.

164. Venneti S, Felicella MM, Coyne T, Phillips JJ, Gorovets D, Huse JT, Kofler J, Lu C, **Tihan** T, Sullivan LM, Santi M, Judkins AR, Perry A, Thompson CB. Histone 3 lysine 9 trimethylation is differentially associated with isocitrate dehydrogenase mutations in oligodendrogliomas and high-grade astrocytomas. J Neuropathol Exp Neurol 72, 298-306, 2013.

165. Walsh KM, Rice T, Decker PA, Kosel ML, Kollmeyer T, Hansen HM, Zheng S, McCoy LS, Bracci PM, Anderson E, Hsuang G, Wiemels JL, Pico AR, Smirnov I, Molinaro AM, **Tihan** T, Berger MS, Chang SM, Prados MD, Lachance DH, Sicotte H, Eckel-Passow JE, Wiencke JK, Jenkins RB, Wrensch MR. Genetic variants in telomerase-related genes are associated with an older age at diagnosis in glioma patients: evidence for distinct pathways of gliomagenesis. Neuro Oncol 15, 1041-1047, 2013.

166. Wang DD, Deans AE, Barkovich AJ, **Tihan** T, Barbaro NM, Garcia PA, Chang EF. Transmantle sign in focal cortical dysplasia: a unique radiological entity with excellent prognosis for seizure control. J Neurosurg 118, 337-344, 2013.

167. Aktas ON, **Tihan** T. The morphologic and molecular characteristics of pilocytic astrocytomas and the role of MAPK pathway: what does not kill you makes you stronger. Adv Anat Pathol 21, 144-150, 2014.

168. Guo Y, **Tihan** T, Kim H, Hess C, Lawton MT, Young WL, Zhao Y, Su H. Distinctive distribution of lymphocytes in unruptured and previously untreated brain arteriovenous malformation. Neuroimmunology and neuroinflammation 1, 147-152, 2014.

169. Keser H, Barnes M, Moes G, Lee HS, **Tihan** T. Well-differentiated pediatric glial neoplasms with features of oligodendroglioma, angiocentric glioma and dysembryoplastic neuroepithelial tumors: a morphological diagnostic challenge. Turk Patoloji Derg 30, 23-29, 2014.

170. Kraus V, Lawson EF, Scheven E, **Tihan** T, Garza J, Nathan RG, Cordoro KM, Waubant E. Atypical cases of scleroderma en coup de sabre. Journal of child neurology 29, 698-703, 2014.

171. Oh T, Rutkowski MJ, Safaee M, Sun MZ, Sayegh ET, Bloch O, **Tihan** T, Parsa AT. Survival outcomes of giant cell glioblastoma: Institutional experience in the management of 20 patients. J Clin Neurosci, 2014.

172. Rodriguez FJ, **Tihan** T, Lin D, McDonald W, Nigro J, Feuerstein B, Jackson S, Cohen K, Burger PC. Clinicopathologic features of pediatric oligodendrogliomas: a series of 50 patients. Am J Surg Pathol 38, 1058-1070, 2014.

173. Schoenfeld A, Haas-Kogan DA, Molinaro A, Banerjee A, Nicolaides T, **Tihan** T, Bollen AW, Gupta N, Mueller S. Pure germinomas of the central nervous system: treatment strategies and outcomes. J Neurooncol 120, 643-649, 2014.

174. Walsh KM, Codd V, Smirnov IV, Rice T, Decker PA, Hansen HM, Kollmeyer T, Kosel ML, Molinaro AM, McCoy LS, Bracci PM, Cabriga BS, Pekmezci M, Zheng S, Wiemels JL, Pico AR, **Tihan** T, Berger MS, Chang SM, Prados MD, Lachance DH, O'Neill BP, Sicotte H, Eckel-Passow JE, Group ECT, van der Harst P, Wiencke JK, Samani NJ, Jenkins RB, Wrensch MR. Variants near TERT and TERC influencing telomere length are associated with high-grade glioma risk. Nat Genet 46, 731-735, 2014.

175. Wang DD, Benkli B, Auguste KI, Garcia PA, Sullivan J, Barkovich AJ, Chang EF, **Tihan** T. Unilateral holohemispheric central nervous system lesions associated with medically refractory epilepsy in the pediatric population: a retrospective series of hemimegalencephaly and Rasmussen's encephalitis. Journal of neurosurgery 14, 573-584, 2014.

176. Abla AA, Nelson J, Kim H, Hess CP, **Tihan** T, Lawton MT. Silent arteriovenous malformation hemorrhage and the recognition of "unruptured" arteriovenous malformation patients who benefit from surgical intervention. Neurosurgery 76, 592-600; discussion 600, 2015.

177. Eckel-Passow JE, Lachance DH, Molinaro AM, Walsh KM, Decker PA, Sicotte H, Pekmezci M, Rice T, Kosel ML, Smirnov IV, Sarkar G, Caron AA, Kollmeyer TM, Praska CE, Chada AR, Halder C, Hansen HM, McCoy LS, Bracci PM, Marshall R, Zheng S, Reis GF, Pico AR, O'Neill BP, Buckner JC, Giannini C, Huse JT, Perry A, **Tihan** T, Berger MS, Chang SM, Prados MD, Wiemels J, Wiencke JK, Wrensch MR, Jenkins RB. Glioma Groups Based on 1p/19q, IDH, and TERT Promoter Mutations in Tumors. The New England journal of medicine 372, 2499-2508, 2015.

178. Gelfand JM, Genrich G, Green AJ, **Tihan** T, Cree BA. Encephalitis of unclear origin diagnosed by brain biopsy : a diagnostic challenge. JAMA neurology 72, 66-72, 2015.

179. Glastonbury CM, **Tihan** T. Practical neuroimaging of central nervous system tumors for surgical pathologists. Surgical pathology clinics 8, 1-26, 2015.

180. Jacquot C, Glastonbury CM, **Tihan** T. Is posterior reversible encephalopathy syndrome really reversible? Autopsy findings 4.5 years after radiographic resolution. Clinical neuropathology 34, 26-33, 2015.

181. Lee HS, **Tihan** T. The basics of intraoperative diagnosis in neuropathology. Surgical pathology clinics 8, 27-47, 2015.

182. Mack SC, Agnihotri S, Bertrand KC, Wang X, Shih DJ, Witt H, Hill N, Zayne K, Barszczyk M, Ramaswamy V, Remke M, Thompson Y, Ryzhova M, Massimi L, Grajkowska W, Lach B, Gupta N, Weiss WA, Guha A, Hawkins C, Croul S, Rutka JT, Pfister SM, Korshunov A, Pekmezci M, **Tihan** T, Philips JJ, Jabado N, Zadeh G, Taylor MD. Spinal Myxopapillary Ependymomas Demonstrate a Warburg Phenotype. Clin Cancer Res, 2015.

183. Menke JR, Raleigh DR, Gown AM, Thomas S, Perry A, **Tihan** T. Somatostatin receptor 2a is a more sensitive diagnostic marker of meningioma than epithelial membrane antigen. Acta neuropathologica, 2015.

184. Meram E, Karabagli H, Glastonbury C, **Tihan** T, Karabagli P. Benign Malformative Lesion of the Skull: Hamartoma with Ectopic Elements or Choristoma? Turk Patoloji Derg, 2015.

185. Phillips J, **Tihan** T, Fuller G. Practical molecular pathology and histopathology of embryonal tumors. Surgical pathology clinics 8, 73-88, 2015.

186. Reis GF, **Tihan** T. Therapeutic Targets in Pilocytic Astrocytoma Based on Genetic Analysis. Seminars in pediatric neurology 22, 23-27, 2015.

187. Reis GF, **Tihan** T. Practical molecular pathologic diagnosis of pilocytic astrocytomas. Surgical pathology clinics 8, 63-71, 2015.

188. Rodriguez FJ, Schniederjan MJ, Nicolaides T, **Tihan** T, Burger PC, Perry A. High rate of concurrent BRAF-KIAA1549 gene fusion and 1p deletion in disseminated oligodendroglioma-like leptomeningeal neoplasms (DOLN). Acta neuropathologica 129, 609-610, 2015.

189. Safaee M, Parsa AT, Barbaro NM, Chou D, Mummaneni PV, Weinstein PR, **Tihan** T, Ames CP.

Association of tumor location, extent of resection, and ncurofibromatosis status with clinical outcomes for 221 spinal nerve sheath tumors. Neurosurg Focus 39, E5, 2015.

190. **Tihan** T. Pathologic Approach to Spinal Cord Infections. Neuroimaging Clin N Am 25, 163-172, 2015.

191. **Tihan** T. Practical issues in diagnostic neuropathology: it is not even the end of the beginning! Surgical pathology clinics 8, ix-x, 2015.

192. Torchia J, Picard D, Lafay-Cousin L, Hawkins CE, Kim SK, Letourneau L, Ra YS, Ho KC, Chan TS, Sin-Chan P, Dunham CP, Yip S, Ng HK, Lu JQ, Albrecht S, Pimentel J, Chan JA, Somers GR, Zielenska M, Faria CC, Roque L, Baskin B, Birks D, Foreman N, Strother D, Klekner A, Garami M, Hauser P, Hortobagyi T, Bognar L, Wilson B, Hukin J, Carret AS, Van Meter TE, Nakamura H, Toledano H, Fried I, Fults D, Wataya T, Fryer C, Eisenstat DD, Scheineman K, Johnston D, Michaud J, Zelcer S, Hammond R, Ramsay DA, Fleming AJ, Lulla RR, Fangusaro JR, Sirachainan N, Larbcharoensub N, Hongeng S, Barakzai MA, Montpetit A, Stephens D, Grundy RG, Schuller U, Nicolaides T, **Tihan** T, Phillips J, Taylor MD, Rutka JT, Dirks P, Bader GD, Warmuth-Metz M, Rutkowski S, Pietsch T, Judkins AR, Jabado N, Bouffet E, Huang A. Molecular subgroups of atypical teratoid rhabdoid tumours in children: an integrated genomic and clinicopathological analysis. The Lancet Oncology 16, 569-582, 2015.

Books and Book Chapters

1. Naujokas A, **Tihan** T, Intradural Extramedullar Tumors. In Spine and Spinal Cord Tumors: Advanced Management and Operative Techniques Ames c, Boriani, Jandial (eds). CRC Press New York NY 2013
2. Burger PC (ed), Scheithauer BW, DeMasters BK, **Tihan** T, Ersen A, Rushing E (co-eds) Diagnostic Pathology, Neuropathology Amirsys, Salt Lake City, 2012
3. **Tihan** T, Wiencke JK, Razavi P, McKean-Cowdin R. Epidemiology of Childhood Brain Tumors. Principles and Practice of Neuro-Oncology: A Multidisciplinary Approach, 57-70, 2011.
4. Adesina A, **Tihan** T, Fuller C, Poussant TY (eds), Atlas of Pediatric Brain Tumors, Springer New York 2010
5. **Tihan** T, Proliferation Markers in the Evaluation of Gliomas in Youmans Neurological Surgery 6th Edition. Winn R (ed) Elsevier Saunders Philadelphia PA 2011
6. **Tihan** T, Kilpatrick SE. Mesenchymal Tumors of the Central Nervous System. Practical Surgical Neuropathology: A Diagnostic Approach. Arie Perry, MD and Daniel J. Brat, MD, PhD (Eds). Churchill Livingstone, Philadelphia PA 2010
7. **Tihan** T, Roberta McKean Cowdin, Childhood Brain Tumors. In Principles and Practice of Neuro-Oncology. A Multidisciplinary Approach. Minesh P. Mehta, MD (ed) Part 1: Epidemiology/Etiology. Judith Schwartzbaum, Margaret Wrensch & Melissa Bondy (section Eds). Demos Medical Publishing (2008).
8. Scheithauer BW, Hawkins C, **Tihan** T, Vandenberg SR, Burger PC. Pilocytic Astrocytoma in WHO Classification of Tumours of the Central Nervous System, (2007 IARC, Lyon pp.14-21)
9. **Tihan** T, Waldron J. Neuronal and Glioneuronal Neoplasms of the CNS, Chapter 13 (J.M. Baehring, J.M. Piepmeier, eds). In Brain Tumors, Practical guide to diagnosis and treatment, Informa Healthcare (2007, pp-241-259)
10. Waldron J, **Tihan** T. Epidemiology and Pathology of Intraventricular Tumors. Neurosurgery Clinics of North America (Parsa AT, Berger M, eds) in Intraventricular Tumors (October 2003, pp 469-482)
11. Oktar N, Oklu R, **Tihan** T, Keles E. Chapter 39, Melanocytic Tumors (Berger MS, Prados MD eds) in Textbook of Neuro-oncology, Elsevier (2005, pp287-293)
12. Gokaslan Z, **Tihan** T. Chapter 156, Pleomorphic Xanthoastrocytoma (Berger MS, Prados MD eds) in Textbook of Neuro-oncology, Elsevier (2005, pp156-159)
13. Quinones-Hinojosa A, Jun P, Jumper J, **Tihan** T, McDermott M. Chapter 26, Choroid Plexus Neoplasms (Berger MS, Prados MD eds) in Textbook of Neuro-oncology, Elsevier (2005 pp199-207)

14. Chang S, Barker F, **Tihan** T. Chapter 34, Pineoblastoma (Berger MS, Prados MD eds) in Textbook of Neuro-oncology, Elsevier (2005, pp248-254)
15. Keles E, **Tihan** T, Burton E, Prados MD, Berger MS. Chapter 17, Diffuse astrocytomas. (Berger MS, Prados MD eds) in Textbook of Neuro-oncology, Elsevier (2005, pp111-121)

OTHER CREATIVE ACTIVITIES

1. Surgical Pathology Tutorial Residents, Johns Hopkins Bayview Medical Center (1997-2002)
2. Surgical Neuropathology Website, Johns Hopkins University Department of Pathology (1997-2002)
3. Surgical Neuropathology Web Tutorial, Johns Hopkins University Department of Pathology (1998-2002)
4. Neuropathology Teaching Set, UCSF Medical Center, Department of Pathology (2002-present)
5. Surgical Pathology Teaching Set, UCSF Medical Center, Department of Pathology (2002-present)
6. Department of Pathology, Practice-Based Learning Evaluation Initiative.
7. Neuropathology Board Review, OSLER Course, UCSF School of Medicine
8. Surgical Neuropathology virtual microscopy online teaching tutorial
9. AANP Online Self-Assessment Module and AANP-OREN Website
10. Eosphorus Clinicall Neuropathology Curriculum Project (2010-present)
11. Koc University Medical School Brain and Behavior Curriculum Development Initiative

ABSTRACTS (newest first)

1. Solomon D, Wood M, **Tihan** T, Bollen A, Gupta N, Phillips J, Perry A: Malignant gliomas with histone H3-K27M mutation: the spectrum of morphologic variation and associated genetic alterations. J Neuropath Exp Neur 2015, 74(6):621-621.
2. Pekmezci M, **Tihan** T, Marshall R, Perry A, Walsh K: Telomere Maintenance Mechanisms in Ependymal Tumors. Lab Invest 2015, 95:435a-435a.
3. Pekmezci M, Nelson J, Kim H, Hess C, Lawton M, **Tihan** T: Pathologic Features of Silent Intralesional Microhemorrhage in Arteriovenous Malformations. Lab Invest 2015, 95:435a-435a.
4. Liverman C, **Tihan** T, Pekmezci M, Santi-Vicini M, Martinez D, Perry A: Transcription Factors as Potential Diagnostic Immunostains for Glial Neoplasms. Lab Invest 2015, 95:432a-432a.
5. Yilmaz I, Gamsizkan M, **Tihan** T: Molecular Alterations in Melanoma Metastases to the Central Nervous System and Their Clinicopathologic Relevance. Modern Pathol 2014, 27:443a-443a.
6. Wrensch M, Walsh KM, Smirnov IV, Rice T, Hansen HM, Molinaro AM, McCoy LS, Bracci PM, Cabriga BS, Perry A, Marshall R, Pekmezci M, Zheng SC, Wiemels JL, **Tihan** T, Berger MS, Chang SM, Prados MD, Wiencke JK, Decker P, Kosel M, Eckel-Passow J, Caron A, Kollmeyer T, O'Neill B, Giannini C, Buckner J, Lachance D, Jenkins R: Single Nucleotide Polymorphisms (Snps) Associated with Glioma Survival. Neuro-Oncology 2014, 16.
7. Walsh KM, Walsh KM, Codd V, Smirnov IV, Rice T, Decker PA, Hansen HM, Kollmeyer T, Kosel ML, Molinaro AM, McCoy LS, Bracci PM, Cabriga BS, Pekmezci M, Zheng SC, Wiemels JL, Pico AR, **Tihan** T, Berger MS, Chang SM, Prados MD, Lachance DH, O'Neill BP, Sicotte H, Eckel-Passow JE, van der Harst P, Wiencke JK, Samani NJ, Jenkins RB, Wrensch MR, Grp ECT: Telomere Length Variants Are Associated with High-Grade Glioma Risk: Identification of a Novel Gliomarisk Locus Bygenome-Wide Association Study. Neuro-Oncology 2014, 16.
8. Urankar KB, **Tihan** T: Clinicopathological Features and Grading in Focal Cortical Dysplasia: A Single Institutional Series. Modern Pathol 2014, 27:442a-442a.
9. Pekmezci M, Orhan YC, Henderson GS, **Tihan** T: Concordance between Whole-Slide Imaging and Light Microscopy for Surgical Neuropathology. Modern Pathol 2014, 27:509a-509a.
10. Menke JR, Gown AM, Thomas S, Perry A, **Tihan** T: Reliability of Somatostatin Receptor 2a as a Marker of Meningioma: An Immunohistochemical Study. Lab Invest 2014, 94:439a-439a.
11. Jenkins RB, Decker P, Kosel M, Eckel-Passow J, Walsh KM, Smirnov IV, Caron A, Kollmeyer T, Rice T, Hansen HM, Molinaro AM, McCoy LS, Bracci PM, Cabriga BS, Marshall R, Pekmezci M, Zheng SC, O'Neill B, Buckner J, Giannini C, Perry A, **Tihan** T, Berger MS, Chang SM, Prados M, Wiemels J, Wiencke J, Wrensch M, Lachance D: Mutation-Based Molecular Glioma Classification: Prevalence and Association with Germline Risk Snps. Neuro-Oncology 2014, 16.
12. Calkins SM, White KL, Quade BJ, **Tihan** T: Practice Gaps in Continuing Medical Education: Do Experts Really Know Best? Lab Invest 2014, 94:146a-146a.
13. Tanboon J, Keser H, Gultekin S, **Tihan** T: Absence of IDH Mutation in Oligodendroglial Tumors with 1p/19q Co-deletion: Technical Problem or an Alternate Pathway. J Neuropath Exp Neur 2013, 72(6):563-564.
14. Scott B, Douglas V, **Tihan** T, Hess C, Josephson S: The Effect of Corticosteroids on Time to Diagnosis in CNS Lymphoma and Other Inflammatory Brain Lesions. Neurology 2013, 80.
15. Rodriguez F, Burger P, McDonald W, Nigro J, Lin D, Feuerstein B, **Tihan** T: Clinicopathologic Features of Pediatric Oligodendrogliomas with Classic Histology. J Neuropath Exp Neur 2013, 72(6):574-574.
16. Pekmezci M, **Tihan** T: Utility of Steroidogenic Factor-1 in the Pathologic Evaluation of Clinically Non-Functioning Pituitary Adenomas. Lab Invest 2013, 93:417a-417a.
17. Niflioglu GG, Pekmezci M, Krasik EF, **Tihan** T: The Expression of Progenitor Cell Markers in Primary Central Nervous System Lymphoma: Role of SOX2/OCT4 in Lymphomas with B-Cell Phenotype. Lab Invest 2013, 93:416a-416a.
18. Mukherjee A, Bylund Q, Prasanna M, Margalit Y, **Tihan** T: Spectroscopic imaging of serum proteins using quantum cascade lasers. Journal of biomedical optics 2013, 18(3):036011.
19. Gamsizkan M, Simsek HA, **Tihan** T, Yilmaz I, Griffin A, Onguru O: The Utility of Immunohistochemical Markers for the Differential Diagnosis of Metastatic Melanoma in the Central Nervous System. Modern Pathol 2013, 26:415a-416a.
20. Cotter J, See A, **Tihan** T: Determination of a Protocol for Sampling of Neurosurgical Neoplasms. J Neuropath Exp Neur 2013, 72(6):590-590.

21. Chen WQ, Guo Y, Walker EJ, Shen FX, Jun K, Oh SP, Degos V, Lawton MT, **Tihan** T, Davalos D, Akassoglou K, Nelson J, Pile-Spellman J, Su H, Young WL: Reduced Mural Cell Coverage and Impaired Vessel Integrity After Angiogenic Stimulation in the Alk1-deficient Brain. Arterioscl Throm Vas 2013, 33(2):305-+.
22. Venneti S, Madden M, Coyne T, Phillips J, Huse J, Lu C, **Tihan** T, Sullivan L, Santi M, Judkins A, Thompson C, Perry A: Patterns of Repressive Histone 3 Lysine 9 Trimethylation (H3K9me3) in Isocitrate Dehydrogenase Mutant and Wild Type Gliomas. J Neuropath Exp Neur 2012, 71(6):579-579.
23. Venneti S, Madden M, Coyne T, Phillips J, Gorovets D, Huse J, Kofler J, Lu C, **Tihan** T, Sullivan L, Santi M, Judkins A, Thompson C, Perry A: Patterns of Repressive Histone 3 Lysine 9 Trimethylation (H3k9me3) in Gliomas with and without Isocitrate Dehydrogenase 1 R132h Mutation. Neuro-Oncology 2012,
24. Reis GF, Bloomer M, Karnezis A, Phillips J, Goldhoff P, **Tihan** T: Pilocytic Astrocytomas of the Optic Nerve and Their Relation to Pilocytic Astrocytomas Elsewhere in the Central Nervous System. Lab Invest 2012, 92:435a-435a.
25. Jenkins RB, Xiao YY, Sicotte H, Decker PA, Kollmeyer TM, Hansen HM, Kosel ML, Zheng SC, Walsh KM, Rice T, Bracci P, McCoy LS, Smirnov I, Patoka JS, Hsuang G, Wiemels JL, **Tihan** T, Pico AR, Prados MD, Chang SM, Berger MS, Caron AA, Fink SR, Halder C, Rynearson AL, Fridley BL, Buckner JC, O'Neill BP, Giannini C, Lachance DH, Wiencke JK, Eckel-Passow JE, Wrensch MR: A low-frequency variant at 8q24.21 is strongly associated with risk of oligodendroglial tumors and astrocytomas with IDH1 or IDH2 mutation. Nature Genet 2012, 44(10):1122-+.
26. Genrich GL, Gelfand J, Green A, Cree B, **Tihan** T: The Diagnostic Utility of Brain Biopsy in Patients with Clinical Suspicion of Encephalitis and Non-Enhancing CNS Lesions. Lab Invest 2012, 92:430a-430a.
27. Baia GS, Caballero OL, Orr BA, Lal A, Ho JS, Cowdrey C, **Tihan** T, Mawrin C, Riggins GJ: Yes-Associated Protein 1 and Its Oncogenic Function in Meningiomas. Neuro-Oncology 2012, 14:12-12.
28. Cascio MJ, Wang DD, Deans AE, Barkovich AJ, **Tihan** T: Transmantle Focal Cortical Dysplasia: A Clinicopathologic Study of 12 Cases Emphasizing Histopathologic Features. Modern Pathol 2012, 25:428a-429a.
29. Xiao YY, Decker PA, Rice T, Hansen HM, Wiemels JL, **Tihan** T, Prados MD, Chang SM, Berger MS, Kosel ML, Fridley BL, Lachance DH, O'Neill BP, Buckner JC, Burch PA, Thompson RC, Nabors LB, Olson JJ, Brem S, Madden MH, Browning JE, Wiencke JK, Egan KM, Jenkins RB, Wrensch MR: Inherited Variants Impact Survival in Uniformly Treated Glioblastoma Patients. Neuro-Oncology 2011, 13:27-28.
30. Rice T, Zheng SC, Xiao YY, Decker PA, McCoy LS, Smirnov I, Patoka JS, Hansen HM, Wiemels JL, **Tihan** T, Prados MD, Chang SM, Berger MS, Pico A, Rynearson A, Voss J, Caron A, Kosel ML, Fridley BL, Lachance DH, O'Neill BP, Giannini C, Wiencke JK, Jenkins RB, Wrensch MR: Associations of Glioma Risk Loci by Idh Mutation Status. Neuro-Oncology 2011, 13:27-27.
31. Naujokas A, Modera P, Weinstein P, **Tihan** T: Uncommon Patterns and Clinical Features of Peripheral Nerve Sheath Tumors of the Spinal Cord: UCSF Experience 1983-2010. Lab Invest 2011, 91:383a-383a.
32. Naujokas A, Modera P, Weinstein P, **Tihan** T: Spinal Cord Ependymomas: UCSF Experience 1983-2010. Modern Pathol 2011, 24:383a-383a
33. Krasik EF, Pekmezci M, **Tihan** T: Challenges in the Differential Diagnosis and Subtyping of Primary Central Nervous System Lymphomas. Lab Invest 2011, 91:382a-383a.
34. Ersen A, **Tihan** T, Qaddoumi I, Alsughayer M, Ozuysal S, AlHoussaini M, Baneerjee A: Pathological Characteristics of Pediatric Intracranial Pilocytic Astrocytomas and Their Impact on Outcome in Three Geographically Distinct Regions: A Multi-institutional Study. Modern Pathol 2011, 24:380a-380a.
35. Barrows BD, Rutkowski MJ, Gultekin H, Parsa A, **Tihan** T: Immunohistochemical Assessment of Neuroepithelial Markers and Hamartin/Tuberin Expression in Subependymal Giant Cell Astrocytoma (SEGA): Further Evidence for Ambiguous Differentiation and mTOR Signal Transduction Dysregulation. Modern Pathol 2011, 24:379a-379a.
36. Aranda D, Parsa A, **Tihan** T, Cha S: Astroblastoma: A Rare Clinicopathological Entity. J Neuropath Exp Neur 2011, 70(6):507-507.
37. Yang I, Han S, **Tihan** T, Wrensch M, Parsa AT: Immune Cell Infiltrates Distinguish Low-Grade from High-Grade Astrocytomas: Evidence of Distinct Tumor Immunological Microenvironments That Reflect Tumor Biology. Neuro-Oncology 2010, 12:34-34
38. Qaddoumi I, Hessissen L, **Tihan** T, et al. An International and Local Alliance to Promote Pediatric Neurooncology in Morocco. Neuro-Oncology 2010;12:Ii18-Ii18.
39. Chang E, Wang D, Barkovich A, **Tihan** T, Garcia P, Barbaro NM: Complete Resection as Strongest Predictor of Seizure Freedom after Surgery for Malformations of Cortical Development. Journal of neurosurgery 2010, 113(2):A423-A423

40. Kane AJ, Sughrue ME, Rutkowski MJ, Shangari G, **Tihan** T, Berger MS, McDermott MW, Parsa AT: Prevalence of Malignant Meningiomas by Location. Journal of neurosurgery 2010, 113(2):A429-A429.
41. Bonham M, Monroe R, Allen R, Almaula M, **Tihan** T. Use of Whole Slide Digital Images for Determination of Ki-67 (MIB1) Labeling Index in Infiltrating Astrocytomas: Comparison of Current Counting Methods with an Image-Based Algorithm. Modern Pathology 2010;23:431a-431a.
42. Barbaro N, Chang EF, Wang D, et al. Outcomes after epilepsy surgery for malformations of cortical development. EPILEPSIA 50: p 460 Supp 11, 2009
43. Louie J, Bloomer MM, **Tihan** T, et al. Clinicopathological characteristics of adamantinomatous and papillary craniopharyngiomas: UCSF Experience 1985-2005. NEURO-ONCOLOGY 11: 5 p650 2009
44. Yang I, Fang S, Han SJ, et al. Early surgical intervention ib 1089 adult ganglioglioma patients is associated with improved clinical seizure outcomes. NEURO-ONCOLOGY 11: 5 p658, 2009
45. Lee, E.B., et al. A Microregional Comparison of EGFR Amplification and MIB-1 Proliferative Index in High-Grade Astrocytomas. Modern Path 2009 (22) 331A 2009.
46. Lee, E.B., et al. Pituicytoma Histogenesis: TTF-1 Expression in Normal and Neoplastic Pituicytes. Lab Invest 89 p331A 2009.
47. Aiken AH, et al. Calcifying Pseudoneoplasms of the Neuraxis: CT, MR Imaging, and Histologic Features AJNR 2009 (30)
48. Bar, E., et al. Frequent gains at chtomosome 7Q34 involving BRAF in pilocytic astrocytoma. Neuro-oncology 10(5) p871 2008.
49. Otero, J. and T. **Tihan**. Differential expression of cell division control proteins in pediatric versus adult ependymomas and comparison to other infiltrating gliomas: Preliminary results. 2008.
50. **Tihan**, T., et al. An analysis of prognostic factors in pediatric posterior fossa ependymomas: Challenges in the study of prognostic factors in childhood brain tumors and a plea for a novel approach. 2008.
51. Buffler, P. and T. **Tihan**. Understanding heterogeneity of childhood brain tumors for epidemiologic studies. 2008.
52. **Tihan**, G., et al. Hydrophilic/hydrophobic balance in relation with structure and biocompatibility of ternary biofilms PVA-HAP-collagen gel. 2008.
53. Otero, J.J. and T. **Tihan**. Abnormal cdc2 activity is more prevalent in high grade versus low grade glial neoplasms. 2008.
54. Parsa, A.T., T. **Tihan**, and M. Wrensch. Prolific CD8 T cell infiltrate in newly diagnosed glioblastoma patients correlates with long term survival. 2008.
55. Wintermark, M., et al. High-resolution CT imaging of carotid artery atherosclerotic plaques. 2008.
56. Nicolaides, T., et al. Atypical teratoid/rhabdoid tumor of the central nervous system: A single institution experience. 2007.
57. Weiss, W., et al. Targeted expression of MYCN causes medulloblastoma in transgenic mice. 2007.
58. Smith, J.S., et al. The role of extent of resection in the long-term outcome of low-grade hemispheric gliomas. 2007.
59. Akgun, H., et al., Intracranial intraparenchymal pseudotumors with extensive calcification and fibrosis; Clinicopathological spectrum of the so-called calcifying pseudoneoplasm of neuroaxis. Virchows Archiv, 2007. 451(2): p. 249-249.
60. Erdogan, S., et al., Angiocentric glioma: A rare epilepsy-associated neoplasm. Virchows Archiv, 2007. 451(2): p. 558-558.
61. Naujokas, A., et al., Typical and unusual pathological characteristics and radiological findings in primary neoplasms of the spinal cord: UCSF experience. Virchows Archiv, 2007. 451(2): p. 562-562.
62. Brat, D.J., et al. Newly codified glial neoplasms of the 2007 WHO Classification of Tumours of the Central Nervous System: Angiocentric glioma, pilomyxoid astrocytoma and pituicytoma. 2007.
63. Garvin, J., et al. Magnetic resonance imaging characteristics of pilomyxoid astrocytoma. 2007.
64. Buckley, A.F., A. Griffin, and T. **Tihan**. Primary sarcomas of the central nervous system - The UCSF experience 1985-2005. 2007.
65. Pingitore, A., et al. Analysis of trends in brain metastases from non-small cell lung cancers: A clinicopathological study. 2007.
66. Buckley, A.F., A. Griffin, and T. **Tihan**. Primary sarcomas of the central nervous system - The UCSF experience 1985-2005. 2007.
67. Kapp, L., et al. Growth and characterization of a putative neoplastic stem cell line in culture. 2006.
68. **Tihan**, T., et al. Prognostic value of histologic grade in pediatric ependymomas: Childrens oncology group study and a review of the literature. 2006.
69. Phillips, J.J., et al. Pituicytoma: Characterization of a unique neoplasm by histology, immunohistochemistry, ultrastucture, and array-based CGH. 2006.

70. Barnes, M., et al. Selective expression of p75NTR in the external granular layer of fetal cerebellum and a subset of medulloblastomas. 2006.
71. Pang, J., T. **Tihan**, and A. Banerjee. The value of tandem MRI/CSF evaluation for predicting disseminated disease in childhood central nervous system neoplasms. 2006.
72. Parikh, S. and T. **Tihan**. Analysis of five-item questionnaire and a self-assessment module for teaching neuropathology during pathology residency training. 2006.
73. Cha, S., et al. Comparison of microvascular permeability measurements, K-trans, determined with conventional steady-state T1-weighted and first-pass T2*-weighted MR imaging methods in gliomas and meningiomas. 2006.
74. Calcagnotto, M.E., et al. Evidence for altered synaptic inhibition in patients with focal cortical dysplasia. 2005.
75. Wang, M., et al. Monomorphous angiocentric glioma: A distinctive epileptogenic neoplasm with features of infiltrating astrocytoma and ependymoma. 2005.
76. Parsa, A.T., et al. Glioma patients segregate into two distinct immunosuppresssive phenotypes based on PTEN status: Implications for immunotherapy. 2005.
77. Keles, G.E., et al. Volumetric extent of resection and residual contrast enhancement at initial surgery as predictors of outcome in adult patients with hemispheric anaplastic astrocytoma. 2005.
78. Ly, A., et al. Use of tissue microarrays in the immunohistochemical analysis of Olig-2 and Ki-67 in gliomas. A quality control study. 2005.
79. Swain, R., et al. Inflammatory myofibroblastic tumors in the CNS and respiratory tract: A comparative analysis. 2005.
80. Jun, P., et al. Recurrent high-grade glioma and therapy-related necrosis: Differentiation based on quantitative perfusion MR imaging. 2004.
81. Keles, G.E., et al. Volumetric analysis of extent of resection as a predictor of outcome in adult patients with hemispheric anaplastic astrocytoma. 2004.
82. Horvath, Z., et al. Combination chemotherapy of BCNU and Didox acts synergystically in 9L glioma cells. 2004.
83. Pate, L., et al. Classification and grading of pediatric astrocytic neoplasms, emphasizing unusual histological patterns. 2004.
84. Raffel, J.M., A. Quinones-Hinajosa, and T. **Tihan**. Ganglioglioma of the spinal cord in children. 2004.
85. Byrne, N.P., et al. Well-differentiated glial neoplasms with features of oligodendroglioma and dysembryoplastic neuroepithelial tumors in the pediatric population: A report of four cases. 2004.
86. Bagri, A., et al. Assessment of alternative methods for estimating the MIBI labeling index. 2004.
87. Abel, T.W., et al. PTEN expression in ganglion cell tumors: An immunohisto-chemical study. 2004.
88. McDonald, W.C., et al. Glial neoplasms resembling oligodendrogliomas in children: Does pediatric oligodendroglioma exist? 2003.
89. Byrne, N.P., et al. Spinal cord ependymomas: The UCSF experience. 2003.
90. Niewmierzycka, S., et al. UCSF experience in neuropathology frozen section diagnoses. 2003.
91. Byrnes, C.K., et al. Duodenal reflux produces hyperproliferative epithelial esophagitis - A possible precursor to esophageal adenocarcinoma in the rat. 2003.
92. Yu, S.Y., et al., Distribution of interstitial cells of cajal in the whole colon from patients with slow-transit constipation. American Journal of Gastroenterology, 2002. 97(9): p. 359.
93. Komotar, R.J., et al., Hypothalamic-chiasmatic astrocytomas with pilocytic and pilomyxoid morphology: A reappraisal of 63 cases. Neurosurgery, 2002. 51(2): p. 732.
94. Wong, J.M., et al. A subclavian artery aneurysm in a patient with HIV infection: A case report. 2002.
95. Shao, L., T. **Tihan**, and P.C. Burger, Desmoplastic infantile ganglioglioma: A clinical and pathological review of eight cases. Journal of Neuropathology and Experimental Neurology, 2002. 61(5): p. 98.
96. Wang, M., et al., Angiocentric bipolar astrocytoma: A distinctive infiltrating. Journal of Neuropathology and Experimental Neurology, 2002. 61(5): p. 133.
97. Abel, T., et al., Nodular/desmoplastic medulloblastomas arising in immature teratomas: A report of three cases. Journal of Neuropathology and Experimental Neurology, 2002. 61(5): p. 150.
98. **Tihan**, T., et al., Intracranial tumors with inflammatory and myofibroblastic components: Inflammatory pseudotumor or inflammatory fibrosarcoma? Journal of Neuropathology and Experimental Neurology, 2002. 61(5): p. 201.
99. **Tihan**, T., et al. Subacute diencephalic angioencephalopathy: biopsy diagnosis and radiological features of a rare entity. 2001.
100. Horvath, Z., et al., Synergism of benzohydroxamic acid derivatives and BCNU in glioma cell lines and its characterization by cDNA arrays. Journal of Neuropathology and Experimental Neurology, 2001. 60(5): p. 61.

101. **Tihan**, T., et al., Intramedullary subependymomas of the spinal cord. Journal of Neuropathology and Experimental Neurology, 2001. 60(5): p. 66.
102. Eberbart, C.G., et al., Medulloblastomas with extra-CNS metastases: A report of 22 cases. Journal of Neuropathology and Experimental Neurology, 2001. 60(5): p. 69.
103. Ronnett, G., F.P. Kuhajda, and T. **Tihan**, Immunohistochemical mapping of fatty acid synthase in human adult central nervous system. Journal of Neuropathology and Experimental Neurology, 2001. 60(5): p. 146.
104. Eberhart, C.G., et al., Immunohistochemical analysis of neuronal maturation and Trk A expression in nodular medulloblastomas. Journal of Neuropathology and Experimental Neurology, 2000. 59(5): p. 2.
105. Burger, P.C., et al., Pediatric intramedullary spinal tumors with diffuse leptomeningeal spread: A report of four cases. Journal of Neuropathology and Experimental Neurology, 2000. 59(5): p. 103.
106. Duncan, M.D., et al., Esophagogastric adenocarcinoma in an E1A/E1B transgenic model involve's p53 disruption. Gastroenterology, 1999. 116(4): p. S0064.
107. **Tihan**, T., et al., Glioneuronal tumors with malignant histological features. Journal of Neuropathology and Experimental Neurology, 1999. 58(5): p. 2.
108. Burger, P.C., et al., Clinical, pathological, and molecular characteristics of pediatric astrocytomas. Journal of Neuropathology and Experimental Neurology, 1999. 58(5): p. 18.
109. Eberhart, C.G., T. **Tihan**, and P.C. Burger, Beta-catenin nuclear localization as a marker in medulloblastomas. Journal of Neuropathology and Experimental Neurology, 1999. 58(5): p. 138.
110. Viglione, M., P.C. Burger, and T. **Tihan**, Solitary fibrous tumor of the central nervous system and its relation to hemangiopericytoma. Laboratory Investigation, 1999. 79(1): p. 1013.
111. Fisher, P.G., et al. Outcomes and failure patterns in childhood craniopharyngiomas. 1998.
112. Fisher, P.G., et al., The natural history of childhood low-grade astrocytomas: A final analysis. Annals of Neurology, 1998. 44(3): p. 10.
113. Burger, P.C., et al. Atypical teratoid/rhabdoid tumor of the central nervous system: A highly malignant tumor of infancy and childhood frequently mistaken for medulloblastoma - A pediatric oncology group study. 1998.
114. **Tihan**, T. and P.C. Burger, A variant of "pilocytic astrocytoma" - A possible district clinicopathological entity with a less favorable outcome. Journal of Neuropathology and Experimental Neurology, 1998. 57(5): p. 125.
115. Teplitz, C., et al., Advances in standardized and transcriptionist free surgical pathology reporting using intergrated artificial intelligence voice recognition and laboratory information systems. Laboratory Investigation, 1993. 68(1): p. A143-A143.
116. Chiba, P., T. **Tihan**, and E. Kaiser, Effect of cell cycle and differentiation on enzymes of 1-arabinofuranosylcytosine metabolism in myeloid cell lines. Journal of Clinical Chemistry and Clinical Biochemistry, 1988. 26(11): p. 738-738.
117. Chiba, P., et al., Cell growth and differentiation on 1-beta-d-arabinofuranosylcytosine metabolism in myeloid cells. Blut, 1988. 57(4): p. 202-202.

RESEARCH PROGRAM

RESEARCH GOALS

The evolving role of the Neuropathologist and the Neuropathology Divisions require a dynamic and pro-active perspective to the research activities in Neuropathology. My research activities are limited to the area of Neurooncology, even though I actively collaborate with researchers to study neurogenesis, seizure disorders and cerebrovascular pathology.

My long terms goals serve the conviction that significant advances are currently possible if we can realistically apply our fundamental knowledge in multi-institutional collaborations to the complex and poorly predictable world of CNS neoplasia. The aims of my research involve bringing together the right material with the right model and methodology to study brain tumors. The specific topic of concentration is the pediatric brain tumors, since our understanding of pediatric brain tumors are much more limited than those in adults, yet the average potential life lost per patient is a magnitude higher in childhood brain tumors than in adults. My efforts in this field include collaboration with molecular epidemiology and pediatric neuro-oncology experts to highlight the necessity of multi-institutional and consortia studies coordinated at the national and hopefully international level.

CURRENT RESEARCH PROGRAMS:

My current research activities focus on the study of phenotype/genotype relationship and subsequent identification of prognostic and classification markers in CNS tumors, and in particular pediatric gliomas. My efforts are currently distributed among the specific efforts outlined below.

1. Brain Tumor Epidemiology Consortium & California Childhood Brain Tumor Consortium: The main goal of the Brain Tumor Epidemiology Consortium is to bring together expert from multiple disciplines to find novel ways in the study of causes and risk factors associated with brain tumors [1-2] California Study of Childhood Brain Tumors (CBT) specifically deals with childhood brain tumors and aims to provide a blueprint for more comprehensive and meaningful studies in this field. I am specifically involved in developing a Pathology Core and Repository (Core D) to support the multidisciplinary research goals within the proposed program project. The program project aims to establish and maintain a comprehensive, rapid reporting network for identifying CBT within the State of California. The specific aims of the core include 1- Developing an effective method of collection of pathological specimens obtained from CBTs 2- Establishing accurate pathological diagnosis and grading of specimens through a central review process, 3- Development and maintenance of a repository of pathological samples, 4- Establishing and maintaining collaboration with Tissue Cores from other program projects including UCSF Brain Tumor SPORE Project Tissue Core, and 5- Generation of specialized pathological research tools, such as microarrays to help the project investigators.

2. California Adult Brain Tumor Study RO1: Genetic and Molecular Epidemiology of Adult Gliomas. This project aims to evaluate the contributions of shared environmental exposures or cultural practices to familial brain tumor clustering, test specific genetic models of inherited susceptibility to disease in familial tumors, and to identify genetic and epigenetic determinants in gliomas and related neoplasms. My role in the study involves genetic and molecular marker analysis in tumor tissues from cases enrolled in the study. I also work closely with Dr. Wrensch, Wiencke and Wiemels in identifying SNPs relevant to particular histological subtypes in an effort to design disease, and tumor specific SNP arrays.

3. The group of studies defining the clinical and morphological characteristics of CNS neoplasia. This group of studies involves a number of collaborators from both UCSF and other institutions. Our recent studies on gliosarcoma with Dr. Andrew Parsa from the Department of Neurological Surgery, studies on Pituicytoma with Dr. Joanna Phillips, studies on the significance of immune infiltrates can be counted among intra-institutional collaborative work. My collaboration with Dr. Charles Eberhart from Johns Hopkins University has also revealed a significant genetic alteration in pilocytic astrocytomas. I currently have other ongoing collaborations with scientists from Johns Hopkins University, Mayo Clinic, UCLA, OHSU (Portland, OR) CHOP (Philadelphia, PA), St. Jude Children's Hospital (Memphis, TN), University of Toronto (Toronto, Canada) MD Anderson Cancer Center (Houston TX), Instituto Carlo Besta (Milan, Italy), Hacettepe University (Ankara, Turkey), Dokuz Eylul University (Izmir, Turkey) among other institutions. A recent publication highlights the collaborative efforts involved in the study of CNS tumors

4. Activities within the BTRC involve the Brain SPORE and UCSF Program Project. In all projects, I serve in the pathology core facility with additional goals of providing tissue micro arrays. I have generated numerous tissue micro arrays over the last few years, and I continue to provide neuropathology expertise to the projects. Collaborative research projects involve many of the principal investigators and clinicians including Drs. Banerjee, Bergers, Bloomer, Costello, and Haas-Kogan.

5. Studies of seizure disorders and the collaborative efforts within the Epilepsy Research Program. Dr. Nicholas Barbaro is the principal investigator of this multicenter, Phase III randomized trial of Gamma Knife radiosurgery for temporal lobe epilepsy. The Radiosurgery vs Open Surgery for Epilepsy (ROSE) trial is funded by the National Institutes of Health and is the first Phase III clinical trial to examine a noninvasive radiosurgical treatment for mesial temporal sclerosis. I will be conducting the pathology central review at UCSF. Some of the research in this field has already been reported.

6. Studies on cerebrovascular diseases with specific emphasis on vascular malformations within the Center for Cerebrovascular Studies at UCSF Medical Center. I participate in both clinical and basic research projects funded by the NIH in collaboration with Drs. Helen Kim, Hua Su, Michael Lawton, Christopher Hess, David Saloner, among others at UCSF