

July 1989-February 1991.

Research Fellow, Neurosurgical Service, CHUV, Lausanne, Switzerland,
March-July 1991

Licensure:

California, 1985:
License #G-57231
North Dakota, 1995:
License #7274
New York, 1997:
License #206541
Utah, 2002:
License #5022518-1205
Federal DEA #BC0948907

Board Certification:

Licensure of the Medical College of Canada (LMCC), 1984
National Board of Medical Examiners, 1985
Royal College of Surgeons of Canada (Principles of Surgery), 1990
American Board of Neurological Surgery (ABNS), 1994
Fellow of the American College of Surgeons (F.A.C.S.), 1996

Academic Appointments:

Assistant Professor, Neurological Surgery, University of Southern California
School of Medicine, 1991-1995
Director, Surgical Epilepsy, USC, 1991-1995
Director, Center for Skull Base Surgery, USC, 1994-1995
Associate Clinical Professor, USC, 1995-1996
Associate Clinical Professor, University of North Dakota, 1995-1996
Program Director, New York Medical College, 1997-2001
Professor and Chairman, Department of Neurological Surgery,
New York Medical College, 1997-2001
Professor and Joseph J. Yager Chair, Department of Neurological Surgery,
University of Utah, 2002-

Editorial Boards

Editor-in-Chief, *Neurosurgical Focus* (JNSPG), 2016-
Editor-in-Chief, *Frontiers in Surgery:Neurosurgery* (Nature PG), 2014-16
Editorial Board, *Moroccan Journal of Neurosurgery*, 2014-
Editorial Board, *Journal of Neurology, Neurosurgery, and Psychiatry*, 2010-
Editor-in-Chief, *AANS Neurosurgeon*, 2005-2010
Editorial Board, *Neurosurgery* (Surgical Videos), 2011-
Editorial Board, *AANS Bulletin*, 2003-2005
Editor, Neurosurgical Innovations section, 2004-2005
Editorial Board, *Journal of Neurosurgery*, 2000-2008 (Chairman 2007-2008)
Editorial Board, *Journal of Neuro-Oncology*, 2008-

Co-Editor, *Central European Neurosurgery*, 2007-
Editorial Board, *Acta Neurochirurgica*, 2006-
Editorial Board, *Neurosurgical Review*, 2003-
Editorial Board, *Journal of Postgraduate Medicine*, 2005-
Associate Editor, *Year Book of Neurology and Neurosurgery*, 2005
Editorial Board, *Neurology India*, 2004-
Editorial Board, *Neurosurgical Focus Journal Club*, 1999-
Editor, Continuing Education Calendar, *Neurosurgery*, 1992-95
Scientific Advisory Board, Pituitary Network Association, 2004-

Ad Hoc Reviewer: *Surgical Neurology*, *Epilepsia*, *Neurosurgical Focus*, *Nature*,
Pituitary, *Cancer*, *Int J Pharmacol*, *Neurocritical Care*, *World Neurosurgery*

Hospital Appointments:

Attending Neurosurgeon:

USC University Hospital (1991-1996)
LAC/USC Medical Center (1991-1996)
Norris Cancer Hospital, Los Angeles (1991-1996)
Childrens Hospital of Los Angeles (1991-1996)
St. Vincent's Medical Center, Los Angeles (1991-1995)
Hospital of the Good Samaritan (Los Angeles) (1992-1995)
Huntington Memorial Hospital (Pasadena) (1994-1996)
Putnam Hospital Center, Carmel, NY (1997-2001)
Westchester Medical Center, Valhalla, NY (1997-2001)
White Plains Hospital, White Plains, NY (1999-2001)
University of Utah University Hospital, Salt Lake City, UT (2002-)
Primary Children's Medical Center, Salt Lake City, UT (2002-)

Committees and Leadership:

ICU Directors Committee, LAC/USC Medical Center, 1991-1994
Trauma Q/A Committee, LAC/USC Medical Center, 1991-1994
Co-Director, Temporal Bone Anatomy Course, AANS 1994-1995
Director, Surgical Management of Movement Disorders Course, AANS, 1996
Luncheon Seminars Committee,
Congress of Neurological Surgeons Meeting, 1992
Co-Chairman, Local host Committee, Congress of Neurological Surgeons, 1993
Patient Care Evaluation Committee, USC University Hospital, 1993-1995
Curriculum Committee, USC School of Medicine, 1994-95
Luncheon Seminars Committee,
Congress of Neurological Surgeons Meeting, 1996
Membership Committee, Congress of Neurological Surgeons, 1995-97
Education Committee, Congress of Neurological Surgeons, 1997-
Teaching and Promotions Committee, NYMC, 1998-2001
Curriculum Committee, NYMC, 1998-2000
Pre- and Postoperative Care Committee, American College of Surgeons, 1998-2001
Program Committee, Tumor Section, CNS, 2001
American College of Surgeons, Committee on Applicants, 2006-

LCME committee, ACGME, 2003
Chairman, OR executive committee, University of Utah, 2005-2008
Liability Committee, University of Utah 2006-
Scientific Advisory Council, Pituitary Network Association, 2007-
University of Utah Medical Group Executive Board, 2008-
Neurosurgical Director, University of Utah Clinical Neuroscience Center, 2008-
Chairman, Search Committee, Dept. Neurology Chair Search, 2007-2008
Chairman, Search Committee, Dept. Radiology Chair Search, 2013-2014
Health Care Executive Committee, University of Utah, 2015-

International Meningioma Society

Secretary, 2012-2014
President, 2014-2016

Society of Neurological Surgeons

Scientific Program Committee, Society of Neurological Surgeons, 2002-2005
Chairman, Scientific Program Committee, 2004-2005
Executive Council, Society of Neurological Surgeons, 2005-2008
Chairman, Research Committee, 2007-
Local Host, Annual Meeting, May 2009
Vice President, 2008-2009

American Academy of Neurological Surgery

President-Elect 2015-2016
President, 2016-2017

American Association of Neurological Surgeons (AANS)

Executive Council, Joint Section on Tumors, AANS/CNS, 1995-2010
Program Committee, Joint Section on Tumors, AANS/CNS, 1995-96
Professional Development Program Committee, AANS, 1998-1999
Nominating Committee, AANS, 1998-2000
Scientific Program Committee, AANS, 1999-2002
Chairman, Scientific Program Committee, 2002-2003
Annual Meeting Chairman, AANS, 2004
Long Range Planning committee, 2005-
Education and Maintenance of Certification Committee, AANS, 2003-2005
Development Committee, AANS, 2003-2007
Chairman, Development Committee, AANS, 2008- 2009
Executive Council,
Neurosurgical Research and Educational Foundation, AANS, 2000-
Medical Student Summer Research Foundation, 2006-
AANS Board of Directors, 2006-2009
Chairman, Communications Division, AANS, 2007-
Editorial Board, *AANS Bulletin*, 2003-2005
Editor, Neurosurgical Innovations section, 2004-2005
Editor, *AANS Neurosurgeon*, 2005- 2010
Secretary, AANS, 2009-2012
President, 2013-2014
Past-President, 2014-2015

American Board of Neurological Surgery (ABNS)

Director, 2006-2012

Chairman, Oral Examination Committee, 2007-2012

Member, Written Examination Committee, 2007-2012

Voting Delegate, American Board of Medical Specialties (ABMS), 2008

World Academy of Neurological Surgery

President-Elect, 2016-2018

President, 2018-2020

Society Memberships:

Local:

Southern California Neurosurgical Society

Los Angeles Academy of Medicine

Los Angeles County Medical Association

California Medical Association

North Dakota Medical Association

New York State Neurosurgical Society

Utah State Neurosurgical Society

National/International:

American Association of Neurological Surgeons

Congress of Neurological Surgeons

Joint Section on Tumors (AANS/CNS)

Joint Section on Cerebrovascular Disease (AANS/CNS)

Joint Section on Neurotrauma and Critical Care (AANS/CNS)

Society of Neuro-Oncology

American Association for the Advancement of Science

New York Academy of Sciences

North American Skull Base Society

Neurosurgical Society of America

Academy of Neurological Surgeons

The Pituitary Society

The Society of Neurological Surgeons

World Academy of Neurosurgery

Teaching Responsibilities:

Medical students and Neurosurgical residents,

New York Medical College, the University of Utah

Clinical and Research Fellows (number of fellows previously trained or currently training: 30–Skull Base Surgery and Molecular/Cell Biology)

Honors and Awards:

Post-Graduate:

2018: Charles Balance Skull Base Surgery Award, British Society of Skull Base Surgery
2018-2019: President-Elect, World Academy of Neurological Surgery
2016-2017: President, American Academy of Neurological Surgery
2016: President, International Meningioma Society
2016: Donaghy Award, AANS Annual meeting
2015: Synthes Skull Base Surgery Award, AANS Annual meeting
2013-2014: President, American Association of Neurological Surgeons
2012-2015: Top Ten Doctor
2012: Elected, World Academy of Neurosurgery
2011: Penfield Lecturer, Canadian Neurosciences Federation Meeting
2010: International Who's Who of Professionals
2010: Bittner Award and Lecturer, AANS
2010: Who's Who among Executives and Professionals
2009: Clark Lowe Rich Distinguished Surgeon Award
2007-2017: America's Top Doctors
2008-2017: America's Top Doctors for Cancer
2008: Honorary Member, Japanese Neurosurgical Society
2008: Vice President, Society of Neurological Surgeons
2006: Director of the American Board of Neurological Surgery
2006: Board of Directors, American Association of Neurological Surgeons
2005-2017: Best Doctors in America
2005: Who's Who Among Medical Educators
2004: Who's Who Among America's Teachers
2003: America's Top Doctors
1994-2003: Who's Who in Science and Engineering
1995-2003: Who's Who in the World
1993: AANS Young Clinician Investigator Award
1991: Dean's Honors List, Ph.D. Thesis, McGill University
1991: Preuss Award, Joint Tumor Section, AANS/CNS
1990: Medical Research Council of Canada (MRC) Centennial Fellowship

Medical School:

1984: Wood Gold Medal
McGill University Scholar
1983: James Eccles Scholarship
1983: J.A. Bezner Prize
1980-1982: J.W. McConnell Award
1980-1983: Faculty of Medicine Scholar
1981: CIBA Anatomy Prize

Pre-Med:

1979: Medical Research Council of Canada Studentship for post-graduate medical research
1979: Natural Sciences and Engineering Research Council of Canada *1967 Science Scholarship*
1977-1979: Dalhousie Science Faculty Scholar

Research Grants:

In revision: NIH R21 CA133745-01 PI: William Couldwell/LE Huang. Project title: Angiogenesis modulation via gap junctions in malignant gliomas and meningiomas
2015: Dumke Foundation. Genetic Heritability of Meningiomas within the Utah Population Data Bank. \$150,000 PI: William Couldwell
2010: NIH Assessment of Primary and metastatic brain tumor hypoxia with 18F-fluoromisonidazole, FDG, and H₂¹⁵O. WT Couldwell, Co-PI, J Hoffman, PI
2007: Novel implant for skull reconstruction. Lorenz surgical, \$130,000 PI: William Couldwell
2006: Pituitary dysfunction following head injury. NIH RO1 NS 40777, co-investigator Couldwell, PI Kelly
2006: Huntsman Cancer Institute: COX-2 inhibition as a therapeutic target in meningiomas, \$50,000. PI: William Couldwell
2005: School of Engineering, University of Utah, Co-PI: CAD-CAM application for automated skull base drilling, \$70,000. PI: William Couldwell
2004: Sponsor: COX-2 inhibition of meningiomas. NREF Fellowship, Brian Ragel, \$40,000
2003: Midas Rex Training Grant, Utah Skull Base Lab, \$40,000.
2000: NIH 1S10RR014661-01A1 Co-PI: Multifocal Confocal Microscope System. \$500,000
1996: ViMRx Pharmaceuticals: Treatment of Recurrent Malignant Gliomas with Hypericin: \$130,000. PI: William Couldwell
1994: Miles Pharmaceuticals: The Role of Signal Transduction in Post Subarachnoid Hemorrhage Vasospasm: \$25,000. PI: William Couldwell
1993-2001: NIH #1 K08 NS01672-01: Signal Transduction in Central Nervous System Tumors: \$434,970. PI: William Couldwell
1993: American Association of Neurological Surgeons Young Clinician Investigator Award: \$40,000. PI: William Couldwell
1990: Medical Research Council of Canada (MRC) Centennial Fellowship "Gliomas and the Immune System" \$120,000. PI: William Couldwell

Patents:

CAD-CAM based drill for skull base and craniotomy applications. U-4062-PCT. William T. Couldwell, 2014

Selected Invited Lectures and Visiting Professorships:

2018: Invited Guest, Egyptian Society of Neurosurgery, Cairo March 21
2018: Invited Speaker, Asian Congress of Neurosurgeons, Dubai, UAE, March 15
2018: Invited Speaker, Interurban Neurosurgical Society, Chicago, IL, March 2
2018: Invited Guest, Winter Clinic Neurosurgical Symposium, Snowmass, February 28
2018: Charles Ballance Skull Base Surgery Award Lecture, Liverpool, England, Jan 25
2017: Baldev Singh Honorary Lecture, Neurological Society of India, Nagpur, Dec 2
2017: Arthur Elvidge Visiting Professor, Albany Medical College, September 28
2017: Honored Guest, Rocky Mountain Neurosurgical Society, Lake Tahoe, June 19-20
2017: Dwight Parkinson Lecture, University of Manitoba, Canada June 7
2017: Mayfield Lecturer, University of Cincinnati, June 1-2
2017: Keynote Lecturer, Beijing International Pituitary Symposium, May 19
2017: Honored Guest, Northwell Skull Base Symposium, Great Neck, NY, April 28

2017: Invited Guest, Egyptian Society of Neurosurgery, Cairo, March 21
 2017: Honored Guest, Egyptian Skull Base Society Course, Cairo March 18-21
 2017: Invited Guest, Nepali Society of Neurosurgery, Kathmandu, March 11-12
 2017: Invited Lecturer, ICCN, Mumbai, India March 6-7
 2017: Visiting Professor, University of Missouri, February 22
 2016: Wallace-Cusimano Lecture, Krakow, Poland, November 30
 2016: Honorary Lecturer, CLANS, Cancun, Mexico, October 29-30
 2016: Invited Lecturer, WFNS/ISMINS, Cairo, Egypt October 18
 2016: Visiting Professor, Stanford University, July 23
 2016: Presidential Address, International Meningioma Society, Osaka, Japan, June 19
 2016: Honored Guest, Moroccan Neurosurgical Society, Essaouria, May 23-24
 2016: Sirois Lecturer, Laval University, Quebec City, Canada May 11-12
 2016: Honored Guest, Chinese Neurosurgical Society, May 7-8
 2016: Donaghy Lecturer, AANS Meeting, May 3
 2016: Visiting Professor, University of Louisiana- Shreveport, April 6-8
 2016: Ginde Orator, Mumbai, India March 26-27
 2016: Honored Guest, Asian Skull Base Society, Tiantan Hospital, Beijing, China, Feb 25-27
 2016: Honored Guest, South Asian Neurosurgical Congress, Dhaka, Bangladesh Feb 22-24
 2016: Robert Grossman Lecturer, Methodist Hospital, Houston, Texas, January 21-22
 2015: Sally Goldwater Visiting Professor, Barrow Neurological Institute, Phoenix, Oct 30
 2015: Honored Lecturer, Skull Base, Bangalore, India, Oct 9-11
 2015: Honored Guest, Neurovascon, Ludhiana, India Sept 18-20
 2015: Invited Plenary Lecturer, Mexican Congress of Neurological Surgeons, Mazatlan, Aug 1-3
 2015: Keynote Lecturer, New York Neurosurgical Society, NY, June 6
 2015: Visiting Professor, Kansas University, May 19
 2015: Invited Guest, AAOSBS, Jeju Island, Korea, April 17
 2015: Invited Plenary Lecturer, AACNS, Jeju Island, Korea, April 16
 2015: Connolly Lecturer, Tulane-Oschner Clinic, LA, April 9
 2015: Honored Guest, Egyptian Neurosurgical Society Meeting, Hurghada, March 25
 2015: Honored Guest, All India Neuroscience Symposium, New Delhi, Feb 6
 2015: Special Lecturer: AIOSBS, Mumbai, India, Jan 10
 2014: Honored Guest, Chinese Neurosurgical Society, Xiamen, Nov 6
 2014: Invited Plenary Lecturer, EANS meeting, Prague, Czech Republic, Oct 16
 2014: Honored guest lecturer, Asian Society for Neuro-Oncology, Istanbul, Sept 11
 2014: Honored guest lecturer, ISMINS, Xi'an China, Oct 5
 2014: Robertson Skull Base Lecturer, University of Tennessee, Aug 29
 2014: Visiting Professor, Penn-State, Hershey, PA, June 20
 2014: Fourth International Neurosurgery Update, Mumbai India, June 6
 2014: Kasoff Lecturer, New York, May 30
 2014: AANS Presidential Address, San Francisco, April 6
 2014: Visiting Professor, MD Anderson Cancer Center, April 18
 2014: Honored Guest, Texas Association of Neurological Surgeons, Feb 28
 2013: Key Note Lecturer, Tenth Annual Endoscopic course, Buffalo, NY, July 25
 2013: Invited Key Note Lecturer, New England Neurosurgical Society, Chatham, MA, June 28
 2013: Hermelin Lecturer, Michigan State Neurosciences, Detroit, MI, June 14
 2013: Visiting Professor, Brigham and Women's Hospital, Boston, MA, June 1
 2013: Visiting Professor, Jefferson University, Philadelphia, PA, April 12
 2013: Visiting Professor, Hofstra/ LIJ Medical Center, Long Island NY, April 8-9
 2013: Visiting Professor, NY Upstate, Syracuse, NY, Jan 29

- 2012: Key Note Speaker, Chinese Neurosurgical Society, Hang Zhou, Oct 11-12
- 2012: Honored Guest, Israeli Society of Neurological Surgery, Zefat, June 1
- 2011: Honored Guest Lecturer, Kuwait Neurosurgical Symposium, Dec 2-4
- 2011: Honored Guest Lecture, Kiev University, Kiev, Ukraine, June 21-23
- 2011: Penfield Lecturer, Canadian Neurosciences Federation Annual Meeting, Vancouver, June 17
- 2011: Visiting Professor, University of Southern California, May 27
- 2011: Distinguished Lecturer, UMDNJ Neuroscience Symposium, May 12
- 2011: Visiting Professor, Seattle Neuroscience Institute, Jan 21-22
- 2010: Honored Guest, Kuwait Neurosurgical Symposium, Dec 5-7
- 2010: Visiting Professor, Dalhousie University, Halifax, Nova Scotia, Sept 29-30
- 2010: Invited Lecturer: Minimally Invasive Neurosurgical Meeting, Mackinaw Island, MI, Aug 12
- 2010: Ronald Bittner Award Lecturer, AANS Annual Meeting, May 3
- 2010: Invited Guest, Egyptian Society of Neurosurgery, Sharm El Shiek, March 13-16, 2010
- 2009: Honored guest, Indian Neurosurgical Society, Lucknow, India, Dec 17-20
- 2009: Visiting Professor, University of Alabama, Dec 10-11
- 2009: Honored guest, 3rd Kuwait-American Neurosurgical Symposium, Kuwait City, Dec 4-7
- 2009: Visiting Professor, Dartmouth University, Aug 28
- 2009: Honored Guest, Mexican Neurosurgical Society, Cancun, Mexico, July 18-22
- 2009: Henderson Lecturer, University of Maryland, June 9-10
- 2009: Honored Guest Faculty, Florida Skull Base Course, Gainesville, Feb 27-28
- 2009: Visiting Professor, Mayo Clinic, Rochester, MN, Feb 17-18
- 2008: Honored Guest, Masters Update in Neurosurgery, Dubai, U.A.E., Dec 2-5
- 2008: Honored Guest, 2nd Kuwait-American Neurosurgical Symposium, Kuwait City, Nov 17-19
- 2008: Visiting Professor, Rush University, Chicago, Oct 18
- 2008: Visiting Professor, Columbia University, New York, Oct 22
- 2008: Honored guest, Indian Skull Base Society Meeting, Mumbai, Oct 8-12
- 2008: Visiting Professor, New York Medical College, Sept 19
- 2008: Honored Guest, International Skull Base Meeting, Rome, Italy, June 19-22
- 2008: Visiting Professor, Washington University in Saint Louis, May 9-10
- 2008: Gurdjian-Thomas Visiting Professor, Wayne State University, May 6-7
- 2008: Honored Guest, Korean Neurosurgical Society, Jeju City, April 17-19
- 2008: Honored Guest Speaker, Royal College of Physicians (Endocrinology), London, March 6
- 2008: Visiting Professor, National Hospital for Neurology and Neurosurgery, London, March 5
- 2008: Winter Lecturer in Neurosurgery, National Institutes of Health, Bethesda MD, Jan 21-22
- 2008: Visiting Professor, George Washington University, Washington, DC, Jan 22
- 2007: Honored Guest, Society of Nervous System Surgery, Antalya, Turkey, Dec 6-9
- 2007: Honored Guest, Neurosurgery Update in Kuwait, Kuwait City, Dec 1-3
- 2007: John E. Adams Lecturer, University of California, San Francisco, Nov 29
- 2007: DeSaussure Lecturer, University of Tennessee, May 3-4
- 2007: Honored Guest, Texas Association of Neurosurgeons, April 27-28
- 2007: Visiting Professor, University of Louisiana, Shreveport, April 25
- 2007: Visiting Professor, University of Virginia, March 22-24
- 2007: Honored Guest, Austrian-German Endocrinology Society meeting, Salzberg, March 8-9,
- 2006: Honored guest, Surgery of Meningiomas and the Cerebral Venous System, Osaka, Japan, Nov 22-26
- 2006: Visiting Professor, University of Wisconsin, Madison, Sept 13-14
- 2006: Honored Guest, Sociedad de Cirugia Neurologica de Occidente, Isla Navidad, Mexico, July 20-21
- 2006: First Distinguished Professorship in Skull Base Surgery, University of Pennsylvania, Jan 17

2005: University of Medicine and Dentistry of New Jersey (UMDNJ), Dec 14
2005: Honored Guest, Alberta–Saskatchewan (Canada) Neurosurgical Society, Sept 29
2005: University of Calgary, Calgary, Alberta, Canada, Sept 26-27
2005: Honored Guest, Mexican Neurosurgical Society, Merida, Mexico, July 22-27
2005: Visiting Professor, Stanford University, March 18
2004: University of Geneva, Geneva, Switzerland, Oct 6-8
2004: University of Zurich, Switzerland: Controversies in Paranasal Sinus Surgery, October 2
2004: Honored Guest, Barrow Neurological Institute 30th Annual BNI Symposium, March 4-6
2003: Invited Lecturer, German Neurosurgical Society Annual Meeting, May 26
2003: Visiting Professor, University of Arkansas, April 15
2003: Visiting Professor, University of Toronto, Canada, March 26
2003: University of Southern California, March 15
2003: Erlangen University, Nurnberg, Germany, Jan 14
2002: Honored Guest, Japanese Brain Tumor Society, Japan, Nov 1
2002: Loma Linda University, November 12
2001: Honored Guest, New Jersey Neurosurgical Society
2001: University of Utah, Salt Lake City, Utah, March 20
2001: Henry Ford, Detroit, Michigan, Feb 6
1999: University of Naples, Italy, Nov 12
1999: Gifu University, Gifu, Japan, Oct 7
1999: The University of Vermont, June 3
1998: Albany Medical College, June 19
1998: University of Chicago, April 16-17
1998: Iowa State University, April 1
1998: Albert Einstein College of Medicine, Jan 16
1996: University of New Mexico, Nov 25-28
1996: University of Arkansas Medical Center, July 28-30
1995: Gifu University Department of Neurosurgery: "High-dose tamoxifen therapy and Protein Kinase C in growth regulation of malignant gliomas" Gifu City, Japan, Oct 20
1995: Zeijhang Medical University: "Surgical management of petroclival meningiomas". Hangzhou, China, Nov 1
1995: European Congress of Neurological Surgeons: "Protein Kinase C and therapeutic implications for the treatment of gliomas and pituitary adenomas", Berlin, Germany, May 14.
1994: 45. Jahrestagung der Deutschen Gesellschaft Für Neurochirurgie: "Experience with mefipristone (RU486) in the United States" and "Protein Kinase C and growth regulation of pituitary tumors", Nürnberg, Germany, May 21
1992: International Course in Surgery of the Skull Base: "Petroclival Meningiomas", Mexico City, Mexico, Nov9-11

Research Activities (complete bibliography appended):

1. Department of Neurosurgery, USC School of Medicine (1987-1988).
Senior Investigator: Michael L.J. Apuzzo, M.D.
Project: Adrenal medullary autografting to the caudate nucleus in Parkinsonian humans.
2. Department of Neurosurgery, USC School of Medicine (1987-1989).
Senior Investigator: Michael L.J. Apuzzo, M.D.
Project: Surgical management of cerebral cysticercosis.

3. Ph.D. thesis research, McGill University: 1) Autocrine regulation of glioma growth, 2) signal transduction and glioma proliferation, and 3) the role of the immune response in glioma tumorigenesis.
4. Department of Neurosurgery, USC School of Medicine (1991-). Signal transduction in malignant gliomas; the role of Protein Kinase C as a dominant transduction mechanism in these tumors.
5. Department of Neurosurgery, USC School of Medicine (1991-1995). High dose oral tamoxifen for treatment of recurrent malignant gliomas (clinical protocol). Principal Investigators: William T. Couldwell and Martin H. Weiss.
6. Departments of Neurology and Neurosurgery, USC School of Medicine (1992). Pallidotomy for the treatment of medically-intractable Parkinson's disease (1992). Principal Investigators: William T. Couldwell and Cheryl Waters, M.D.
7. Department of Neurosurgery, USC School of Medicine (1992-1995). Development of Approaches to Skull Base Tumors.
8. Department of Neurosurgery, USC School of Medicine (1994-1995). Vagal nerve stimulation for intractable epilepsy. Principal Investigators: Christopher M. DeGiorgio and William T. Couldwell.
9. Department of Neurosurgery, USC, (1994): PKC and post-subarachnoid hemorrhage-induced vasospasm. Principal Investigator: William T. Couldwell
10. Department of Neurosurgery, USC and the Department of Surgery, University of North Dakota (1995-2000). Hypericin therapy for recurrent malignant gliomas. Principal Investigators: William T. Couldwell and Martin H. Weiss
11. Department of Neurosurgery, New York Medical College (1997-2000). Hypericin therapy as an adjuvant in malignant glioma therapy and recurrent pituitary adenomas. Principal Investigator: William T. Couldwell
12. Department of Neurosurgery, New York Medical College (1997). Signal Transduction and apoptosis in malignant gliomas, Astrocyte/glioma signalling.
13. Department of Neurosurgery, New York Medical College, and the University of Utah (1997). Anatomical study of skull base surgical approaches.
14. Department of Neurosurgery, University of Utah (2001). Gap-junction communication between glioma cells and nascent cells.
15. Department of Neurosurgery, University of Utah (2003). COX-2 expression in glioma, meningioma and pituitary tumor cells.
16. Departments of Neurosurgery and Genetics, University of Utah (2008) Familiality of Pituitary Tumors in the Utah Population Data Bank

Publications:**Peer Reviewed:**

1. Jalalah S, Kovacs K, Horvath E, **Couldwell WT**, Weiss MH, Ezrin C: Rhabdomyosarcoma in the region of the sella turcica. **Acta Neurochir (Wien)** **88**:142-146, 1987.
2. **Couldwell WT**, Weiss MH: Pituitary parenchymal metastasis from adenocarcinoma of the prostate. **J Neurosurg** **71**:138-140, 1989.
3. Giannotta SL, **Couldwell WT**: How—and when—to recognize aneurysmal subarachnoid hemorrhage. **J Critical Illness** **4**:49-65, 1989.
4. **Couldwell WT**, Apuzzo MLJ: Management of cysticercosis cerebri. **Contemp Neurosurg** **11(19)**:1-6, 1989.
5. **Couldwell WT**, Apuzzo MLJ: Initial experience related to the use of the Cosman-Roberts-Wells stereotactic instrument. **J Neurosurg** **72**:145-148, 1990.
6. Apuzzo MLJ, Neal JH, Waters C, Appley A, Boyd S, **Couldwell WT**, Wheelock V, Weiner L: Utilization of unilateral and bilateral stereotactically-placed adrenomedullary-striatal autografts in parkinsonian humans: rationale, techniques and observations. **Neurosurgery** **26**:746-757, 1990
7. **Couldwell WT**, Antel JP, Apuzzo MLJ, Yong VW: Inhibition of growth of established human glioma lines by modulators of the protein kinase C second messenger system. **J Neurosurg** **73**:594-600, 1990
8. **Couldwell WT**, Zee Chi-Shing, Apuzzo MLJ: Definition of the role of contemporary surgical management in cisternal and parenchymatous cysticercosis cerebri. **Neurosurgery** **28**:231-237, 1991
9. **Couldwell WT**, Dore-Duffy P, Apuzzo MLJ, Antel JP: Malignant glioma modulation of immune function: relative contribution of different soluble factors. **J Neuroimmunol** **33**:89-96, 1991
10. **Couldwell WT**, Uhm J, Antel JP, Yong VW: Enhanced protein kinase C activity correlates with the growth rate of malignant human gliomas. **Neurosurgery** **29**:880-887, 1991
11. **Couldwell WT**, Apuzzo MLJ: Initial experience related to the use of the Cosman-Roberts-Wells stereotactic instrument. In **Year Book of Neurology and Neurosurgery**. R.D. Currier and R.M. Crowell, eds., Mosby Year Book, St. Louis, pp 236-237, 1991
12. **Couldwell WT**, Yong VW, Freedman MS, Antel JP: Production of soluble autocrine inhibitory factors by human glioma cell lines. **J Neurol Sci** **110**:178-185, 1992
13. **Couldwell WT**, de Tribolet N, Antel JP, Gauthier T, Kuppner MC: Adhesion molecules and malignant gliomas: implications for tumorigenesis. **J Neurosurg** **76**:782-791, 1992

14. **Couldwell WT**, Fankhauser H, de Tribolet N: Osseous metastases from a benign intraventricular meningioma. **Acta Neurochir (Wien)** **117**:195-199, 1992
15. **Couldwell WT**, Antel JP, Yong VW: Enhanced protein kinase C activity correlates with the growth rate of malignant gliomas: Part II. Effects of glioma mitogens and modulators of PKC. **Neurosurgery** **31**:717-724, 1992
16. **Couldwell WT**, Zee Chi-Shing, Apuzzo MLJ: Definition of the role of contemporary surgical management in cisternal and parenchymatous cysticercosis cerebri. In **Year Book of Neurology and Neurosurgery**. R.D. Currier and R.M. Crowell, eds., Mosby Year Book, St. Louis, pp 368, 1992
17. **Couldwell WT**, Antel JP, Yong VW: Malignant glioma-derived soluble factors regulate proliferation of normal adult human astrocytes. **J Neuropath Exp Neurol** **51**:506-513, 1992
18. **Couldwell WT**, Weiss MH: Visual loss associated with Bromocriptine. **Lancet** **340**:1410-1411, 1992
19. Schneider JH, Weiss MH, **Couldwell WT**: Development of neurosurgery in Southern California and the Los Angeles County-University of Southern California Medical Center. **J Neurosurg** **79**:145-148, 1993
20. Ahmadi J, Hinton DR, Segall HD, **Couldwell WT**, Stanley RB: Dural invasion by craniofacial and calvarial neoplasms: MR imaging and histopathological evaluation. **Radiology** **188**:747-749, 1993
21. **Couldwell WT**, Weiss MH: Intracranial pressure monitoring as a management option in patients with liver failure. **J Critical Illness** **8**:329-330, 1993
22. Baltuch G, **Couldwell WT**, Villemure JG, Yong VW: Protein Kinase C inhibitors suppress cell growth in established and low passage glioma cell lines. A comparison between staurosporine and tamoxifen. **Neurosurgery** **33**:495-501, 1993
23. **Couldwell WT**, Weiss MH, Weiner LP, DeGiorgio CM, Hinton DR, Ehresmann GR, Conti PS, Apuzzo MLJ: Clinical and radiographic response in a minority of patients with recurrent malignant gliomas treated with high dose tamoxifen. **Neurosurgery** **32**:485-490, 1993
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Presentations:

Not listed

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