

CURRICULUM VITAE

Joel Ira Franck MD PLLC
Neurological Surgery
and
Medical-Legal Analysis and Consultation

Certified by the American Board of Neurological Surgery
Fellow of the American Association of Neurological Surgeons
Fellow of the Congress of Neurological Surgeons
Licensed to Practice Medicine in the State of Florida

Business Addresses:

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Oldsmar, FL 34677
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Past Neurosurgical Employment

STarFix Inc Bowdoinham, Maine
Surgical Targeting Fixture Company
Co-Founder
Chief Neurosurgical Officer and Principal Co-Inventor of StarFix Technology

American Neurosurgical Specialists LLC
Tampa, Florida 33625 (2015)

Bay Medical Center Neurosurgical and Spinal Institute
Bay Medical Center / Sacred Heart Health System
Attending Neurosurgeon and Chief of the Section of Neurosurgery
Panama City, Florida 32401 (2007 - 2015)

Joel Ira Franck, M.D., P.A., Lewiston, Maine (1986 – 2007)

Academic Appointment (Past) - Assistant Clinical Professor of Neurosurgery
Tufts University School of Medicine

Residency - Neurological Surgery

Department of Neurosurgery, Upstate Medical Center, Syracuse, New York
Robert B. King, M.D., Chairman
Chief Resident (July, 1985 - June, 1986)

Additional Residency Training

Clinical Resident (July, 1982 - June, 1985)

Research Resident (July, 1980 - June, 1982)

Neuropathology at Upstate Medical Center (January, 1985 - March, 1985) G. Collins, M.D.,
Chairman

Neurology at Strong Memorial Hospital, Rochester, NY (October 1983 - March 1984) R.
Joynt, M.D., Chairman

Neuroradiology at Upstate Medical Center (January, 1983 - March, 1983) S.
Kieffer, M.D., Chairman

Internship - General Surgery

Department of Surgery, Upstate Medical Center (July, 1979 - June, 1980) D.
Fromm, M.D., Chairman

United States and European Issued Patents and Trademarks (Cited in Subsequent Patent Applications over 2000 times)

Patient and Procedure Customized Fixation and Targeting Devices for Stereotactic Frames:
STarFix (Ronald Franklin, Joel Franck, M.D., Frederick Haer)

US Patent Application Number: 201603353380 Filed 9/4/2014 Published:
1/22/2015 Patient and Procedure Customized Fixation and Targeting Devices for

Stereotactic Frames: STarFix (Ronald Franklin, Joel Franck, M.D., Frederick Haer)

Patent Pending No: 201603353380 Date Filed: 11/17/2016

Customizable Fixture for Patient Positioning: NEUTAR (Ronald Franklin, Joel Ira Franck, M.D.,
Frederick Haer)

European Patent No: 1227768 Date of Patent: October 4, 2006

Customized Surgical Fixture: NEUTAR (Ronald Franklin, Joel Ira Franck, M.D., Frederick Haer)

European Patent No: 1094760 Date of Patent: March 29, 2006 Customized Surgical Fixture:
Ronald Franklin, Joel Ira Franck, M.D., Frederick Haer Patent No.: US 6,738,657 B1 Date of
Patent: May 18, 2004

Instrument Guidance System for Spinal and Other Surgery: Joel Ira Franck, M.D., et. al.

Patent No.: US6,546,277 B1 Date of Patent: April 8, 2003

Instrumented and Actuated Guidance Fixture for Stereotactic Surgery: Joel Ira Franck, M.D.,
et.al. Patent No.: US 6,529,765 B1 Date of Patent: March 4, 2003

Customizable Fixture for Patient Positioning: Ronald Franklin, Joel Ira Franck, M.D., Frederick Haer

Patent No.: US 6,459,927 B1 Date of Patent: October 1, 2002

Movable Arm Locator for Stereotactic Surgery: Joel Ira Franck, M.D., et. al.

Patent No.: US 6,351,662 B1 Date of Patent: February 26, 2002

Customized Surgical Fixture: Ronald Franklin, Joel Ira Franck, M.D., Frederick Haer

Patent No.: US 6,327,491 B1 Date of Patent: December 4, 2001

Instrument Guidance for Stereotactic Surgery: Joel Ira Franck, M.D., et. al.

Patent No.: US 6,298,262 B1 Date of Patent: October 2, 2001

Body-Mounted Sensing System for Stereotactic Surgery: Joel Ira Franck, M.D., et. al.

Patent No: US 6,282,437 B1 Date of Patent: August 28, 2001

Removable Frames for Stereotactic Localization: Joel Ira Franck, M.D., et. al.
Patent No.: US 6,273,896 B1 Date of Patent: August 14, 2001

NATREX: Neutar, L.L.C.

Registration No: 2,493,027 Issue Date: September 25, 2001

FHC microTargeting Platform System produced under License Agreement with STarFix Inc

Medtronic NexFrame Stereotactic Guidance System produced under License Agreement with STarFix Inc.

MAZOR Robotics surgical robotic devices produced under legal patent agreement with STarFix, Inc.

Special Positions

Advisory Board: Reliance College - Reason, Individualism, Freedom Institute
9400 South Damen Avenue, Chicago IL 60620 - www.reliancecollege.org - Current

Physician's Roundtable Board of Bay Medical Center / Sacred Heart Health System - past

Member of the Ethics Committee of Bay Medical Center / Sacred Heart Health Medical -
past

Clinical Director of HealthPlex Physical Therapy Center of Bay Medical Center / Sacred Heart Health System - Past

Member of the Information Technology Physicians Advisory Council of Bay Medical Center –
Past

Co-Principal Investigator: Multi-center Study with Dept of Neurosurgery of Vanderbilt University on Deep Brain Targeting and Automated Atlas Formation Utilizing the STarFix System 2008-2010

Principal Investigator and Inventor: St. Mary's Regional Medical Center Research Protocol "Clinical Investigation of a Skull-Mounted Guidance Device for Frameless Functional Neurosurgical Procedures – (NATREX Device Protocol)" 1998-2004

Co-Director: St. Mary's Neuroscience and Spine Center 1998-2007

Member of the Surgical Review Committee, St. Mary's Regional Medical Center 1998-2006

Member of the Operating Room Committee, St. Mary's Regional Medical Center 1997-2006

Principal Investigator: St. Mary's Regional Medical Center "Brain Attack" Protocol 1996

Principal Investigator: St. Mary's Regional Medical Center Stealth Frameless Stereotactic

Neuronavigational Surgery Protocol 1996

President: Maine Neurosurgical Society 1996-1997

Chief of Neurosurgery Section, Department of Neurosurgery, St. Mary's Regional Medical Center
1990-2000

National Science Foundation Sensory Physiology and Perception Program Ad Hoc Grant Review
Committee, 1984 - 1985.

Medical Advisory Committee of Blue Cross Blue Shield of Maine 1987 - 1994

Licenses and Boards

2007: Florida License ME99762 (Active)

1989: Board Certified: American Board of Neurological Surgery - 8947

1986: Maine License – 12095 (Inactive)

1986: Pennsylvania License - February 13, 1986 MD – 035273 (Inactive)

1985: New York State License - July 1, 1985 - 162604-1 (Inactive)

1984: American Board of Neurological Surgery - Written Examination Passed for Credit

1980: Diplomat of the National Board of Medical Examiners - 219801

Education

Yale University School of Medicine 1975 – 1979 Degree: M.D.

New Haven, Connecticut

Rockefeller University 1973-1975 Graduate Fellow in Neurophysiology

New York, New York

Massachusetts Institute of Technology 1970-1973 Degree: B.S.

Major: Life Sciences Minor: Physics

Boston, Massachusetts

Bronx High School of Science 1966 - 1970

Bronx, New York

Honors and Awards

2023: Fellow of the Congress of Neurological Surgeons

2012: Fellow of the American Association of Neurological Surgeons (FAANS)

2010: Guardian Angel Award – Bay Medical Center, Panama City, Florida

2007: NexFrame: National Gold Medal Medical Design Excellence Awarded by Medical
Device and Diagnostic Industry Journal to Medtronic, Licensee of STarFix, Inc.

2004: StarFix: microTargeting Platform System: National Gold Medal Medical Design
Excellence Awarded by Medical Device and Diagnostic Industry Journal to FHC, Licensee
of STarFix, Inc.

1996-1998: American Association of Neurological Surgeons Recognition Award by Coordinating Committee on Continuing Education
1985: American Medical Association Physician Recognition Award in Continuing Medical Education
1981-1982: National Research Service Award (Post - Doctoral Fellowship) National Institute of Health
1979: Yale University School of Medicine/Mosby Corporation Award of Scientific Achievement
1973-1975: Rockefeller University Graduate Fellowship
1973: Phi Lambda Upsilon--National Honorary Chemical Society
1972: Central Intelligence Agency Development Incentive Award
1972: Arnold Air Society--National Honorary Air Force ROTC Society
1970: New York State Regents Scholar
1969: National Merit Scholarship Commendation
1969: ARISTA--The National Honor Society

Previous Employment

FHC Inc, 9B Main Street, Bowdoinham, Maine 04287
Neurosurgical Technology Consultant
(Co-inventor of the STarFix microTargeting Customized Stereotactic Platform Technology - see Patent Section)

Charles Stark Draper Laboratory, Massachusetts Institute of Technology, Boston, Massachusetts 1971-1973
Defense and Intelligence Programming
Central Intelligence Agency, Langley, Virginia 1972
Deputy Directorate for Science and Technology
Office of Scientific Intelligence
Computer Systems Analysis and Programming

International Business Machines Corporation, New York Programming Center
Summers 1969-1970
Computer Programming: Compiler Fault Analysis

Insurance Services Organization, New York 1969
Computer Programming: Automobile Insurance Rating

Memberships (Present and Past)

American Association of Neurological Surgeons
American Headache Society
American Medical Association
American Society for Stereotactic and Functional Surgery
Androscoggin County Medical Association
Congress of Neurological Surgeons
Florida Medical Association
Brain Research Organization
International Society for Computer Guided Surgery
International Society for Neurosurgical Technology and Instrument Invention
Joint Council of State Neurosurgical Societies, Maine Representative (past)
Maine Medical Association

Memberships (Present and Past) continued:

Maine Neurosurgical Society, Refounder, Past President, Past Secretary
New England Neurosurgical Society
Society of Neuroscience
The Movement Disorder Society

Contributing Biographical Interviews:

Ayn Rand Explained: From Tyranny to Tea Party by R.E. Merrill and M.F. Enright (Open Court, Chicago, IL 2013) - pp. 39-40 (A brief biographical vignette of the intellectual and personal relationship of Ayn Rand and Joel Franck MD)

Ayn Rand and the World She Made by A.C. Heller (Anchor Books, Random House, New York 2009) (Extensive interview by author Anne Heller of Joel Franck MD about the intellectual and personal relationship of Ayn Rand and Dr. Franck)

Research, Accomplishments, Publications, and Presentations: Over Ninety (90) articles, abstracts, patents, and international presentations on neurosurgery, neuroradiology, neurophysiology, neuroanatomy, economics, medical-legal issues, and political philosophy.

Notable Accomplishments:

1. First original published demonstration of functional plasticity and the potential for repair in the adult mammalian brain in the Sensory-Motor Cortex: Functional reorganization of cat somatic sensory-motor cortex (SmI) after selective dorsal root rhizotomies. Brain Research 186:458-462. J.I. Franck (1980).
2. First original published demonstration of physiologic Habituation and Attention neuronal cellular responses in the adult mammalian brainstem Reticular Formation: Changes in responses of medial pontomedullary reticular neurons during repetitive cutaneous, vestibular, cortical and tectal stimulation. Journal of Neurophysiology 39:564:581. B.W. Peterson, J.I. Franck, N.G. Daunton (1976).
3. Organizer of the first national economic conference dealing with the new RBRVS physician payment system and primary debater with William Hsaio - the author of the system at the American Enterprise Institute in Washington DC See **Articles** reference number 11 and **Abstract** reference number 22
4. Originator and Co-inventor of the STarFix customized patient-specific micro platform system for Beep Brain Targeting and Stimulation: See section on **Patents:**
FHC STarFix microTargeting platform system
Medtronic NexFrame Stereotactic Guidance System
MAZOR robotic surgical devices
5. Recipient of two National Biotechnology Gold Medals for the inventions noted in number 4 above
6. Inventor and developing Neurosurgeon for the first successful treatment of Cervical Whiplash Injuries, including Severe cervical pain, Brain Fog, Migraine Headaches and Neurological deficits See **Article** reference 15
7. First use of the STEALTH intraoperative guidance system for dynamic repair of cervical fractures See **Abstract** number 31

8. First demonstration of single neuron cell responses in the deep brain of an awake ambulating human patient See **Abstract** number 30
- 9: Pinpointed a significant mathematical fault in the IBM FORTRAN compiler - resulting in major corrective programming: see **Employment** at IBM 1969-1970 at age 17.
- 10: Developed improved system for Graphical Data Management at the Central Intelligence Agency: see **Employment** at CIA 1972 at age 20. Awarded CIA Development Incentive Award 1972 (see **Honors and Awards**)
- 11: Developed the first Hidden Line Elimination 3-D Rendering program at the MIT Charles Stark Draper Laboratory (see **Employment** 1971-1973 age 20)
- 12: Authored speech delivered in the fall of 1976 by President Gerald Ford to the leadership of the Captive Nations of Eastern Europe at the White House. Personally acknowledged by President Ford. Age 24
- 13: Internationally regarded as an expert in the Medical-Legal aspects of Spinal Disease and Trauma: Testified in over 1500 depositions and over 40 local, state, federal, and international trials.

Articles: (Over 600 Peer Reviewed Article Citations)

1. Input from neck afferents to the cat flocculus. Brain Research 89:133-138. V.J. Wilson, M.Maeda and J.I. Franck (1975)
2. Inhibitory interaction between labyrinthine, visual and neck inputs to the cat flocculus. Brain Research 96:357-360. V.J. Wilson, M. Maeda, J.I. Franck (1975).
3. Mossy fiber neck and second-order labyrinthine projection to cat flocculus. Journal of Neurophysiology 39:301-310. V.J. Wilson, M. Maeda, J.I. Franck and H. Shimazu (1976).
4. Changes in responses of medial pontomedullary reticular neurons during repetitive cutaneous, vestibular, cortical and tectal stimulation. Journal of Neurophysiology 39:564:581. B.W. Peterson, J.I. Franck, N.G. Daunton (1976).
5. Functional reorganization of cat somatic sensory-motor cortex (SmI) after selective dorsal root rhizotomies. Brain Research 186:458-462. J.I. Franck (1980).
6. Dorsolateral pontine inhibition of dorsal horn cell responses to cutaneous stimulation: lack of dependence on catecholaminergic systems in cat. Journal of Neurophysiology 50:1220-1235. C.J. Hodge, Jr., A.V. Apkarian, R.T. Stevens, G.D. Vogelsang, O. Brown and J.I. Franck (1983).
7. Lumbar dorsal root potentials elicited by stimulation of nucleus locus coeruleus. Experimental Neurology 85:202-208. A.V. Apkarian, C.J. Hodge, Jr., R.T. Stevens and J.I. Franck (1984).
8. Intrinsic neuromuscular defects in the neurogenic bladder I. Short term ultrastructural changes in muscular innervation of the decentralized feline bladder base following unilateral sacral ventral rhizotomy. Neurourology and Urodynamics 3:93-113. A. Elbadawi, M.A. Atta and J.I. Franck (1984).

9. Intrinsic neuromuscular defects in the neurogenic bladder II. Long term innervation of the unilaterally decentralized feline bladder base by regenerated cholinergic, increased adrenergic, and emergent probable "peptidergic" nerves. *Neurology and Urodynamics* 3:185-200. M.A. Atta, J.I. Franck and A. Elbadawi (1984).
10. Lumbar epidural synovial cyst: case report with clinical, CT, intraoperative, and neuropathological findings. *Journal of Neurosurgery* 66:293-296. J.I. Franck, R.B. King, G. Petro, M. Kanzer (1987).
11. A Physician And Market Perspective On The Hsiao Proposal: A Commentary by Joel Ira Franck in *Regulating Doctors' Fees, Competition, Benefits, and Controls under Medicare*, 1991, American Enterprise Institute, Washington, D.C., pgs. 237 - 244, Edited by H.E. Frech III. (Joel Franck MD and H.E. Frech PH.D. organized this national conference at the American Enterprise Institute regarding the new RBRVS - Resource Based Relative Value Scale - methodology of paying health providers. Dr. Franck debated Professor Hsiao at this meeting.)
12. STarFix: A radical new approach to frameless stereotactic functional neurosurgery utilizing a miniaturized customized pretargeted cranial platform fixture – technical description and case reports. Submitted to *Neurosurgery*, J.I. Franck, et al, (2002).
13. Hemangioblastoma of spinal nerve: a report of six cases. *Clinical Neuropathology* 32 (2):91-99. A. Mitchell, B.W. Scheithauer, R.E. Wharen, J. Franck and K. Chan (2013)
14. Primary Brain Cancers – J.I. Franck Chapter Editor in: *Clinical Fundamentals for Radiation Oncologists*, by Hasan Murshed, 2011, Medical Physics Publishing, Madison, WI, pages 156-186
15. The Cranial Cervical Syndrome Defined: New Hope for Post-Whiplash Migraine Headache Patients - Cervical Digital Motion X-Ray, FONAR Upright Weight-Bearing Multi-Position MRI and Minimally Invasive C1-C2 Transarticular Lag Screw Fixation Fusion, J.I. Franck and P.Perrin in *The CranioCervical Syndrome and MRI*, edited by F. W. Smith and J.S. Dworkin, a monograph published by Karger, Inc. Switzerland (April 2015)
16. Moral Choices and Just Defensive War: The Crisis in Gaza, Letter to the President, J.I.Franck in the *Walter Dandy International Neurosurgical Society Newsletter* (August 7, 2014)

Abstracts and Presentations:

1. Alterations of reticular responses during repetitive vestibular, cutaneous and cortical stimulation: CNS analogs of habituation and sensitization. *Society of Neuroscience*, Vol. 4, 1974 (St. Louis). B.W. Peterson, J.I. Franck and N.G. Daunton.
2. Pathways for neck and second order labyrinth projections to the cat flocculus. *Society for Neuroscience*, Vol. 5, 1975 (Los Angeles). V.J. Wilson, M.D., M. Maeda, J.I. Franck and H. Shimazu.

3. Functional modification of cat somatic sensory-motor cortex (SmI) by selective deafferentation. Society for Neuroscience, Vol. 5, 1979 (Atlanta). J.I. Franck and J. Metzler.
4. Functional plasticity in the cat somatic sensory-motor cortex (SmI) during reversible epidural anesthetic blocks. Society for Neuroscience, Vol. 5, 1979 (Atlanta). J. Metzler, P.S. Marks and J.I. Franck.
5. Chronic changes in cat somatic sensory-motor cortex (SmI) following selective dorsal-root section. Society for Neuroscience, Vol. 6, 1980 (Cincinnati). J.I. Franck, J. Metzler and P.S. Marks.
6. Functional changes in adult cat somatic sensory-motor cortex following acute and chronic selective deafferentation. American Association of Neurological Surgeons, 50th Anniversary Meeting, Boston, Massachusetts 1981. J. Metzler and J.I. Franck.
7. Does noradrenaline mediate the modulatory effects of the locus coeruleus on lumbar dorsal horn interneurons? Society for Neuroscience, Vol. 7, 1981 (Los Angeles). J.I. Franck, C.J. Hodge, Jr., A.V. Apkarian, R.T. Stevens, G. Peca-Vogelsang and J. Wisnicki.
8. Pattern of catecholamine distribution in the lumbar spinal cord. Society for Neuroscience, Vol. 7, 1981 (Los Angeles). G.D. Peca-Vogelsang, C.J. Hodge, Jr., R.T. Stevens, A.V. Apkarian, J.I. Franck and O.M. Brown.
9. Dorsal root potentials elicited by locus coeruleus stimulation--dependence on intact noradrenaline stores. Society of Neuroscience, Vol. 7, 1981 (Los Angeles). A.V. Apkarian, C.J. Hodge, Jr., J.I. Franck, R.T. Stevens and G.D. Peca-Vogelsang.
10. Possible sources of catecholamine terminals in the lumbar spinal cord of the cat. Society for Neuroscience, Vol. 7, 1981 (Los Angeles). C.J. Hodge, Jr., R.T. Stevens, G.D. Peca-Vogelsang, A.V. Apkarian and J.I. Franck.
11. A study of reciprocal connections of corticoreticular cells with brainstem nuclei using anterograde and retrograde transport of WGA-HRP in cats. Society of Neuroscience, Vol. 8, 1982 (Minneapolis). J.I. Franck and R.P. Dum.
12. Reciprocal connections of corticoreticular cells in brainstem nuclei in cats. American Association of Neurological Surgeons, 1983 (Washington, D.C.) J.I. Franck and R.P. Dum.
13. Contrast media for cerebral arteriography: clinical radiologic evaluation of iopamidol and iothalamate meglumine. American Society of Neuroradiology, 1984 (Boston). J.I. Franck, M.D. Leeson, E.D. Cacayorin, D.F. Cawthon and S.A. Kieffer.
14. Ultrastructural evidence for hyperinnervation of the bladder base by adrenergic and neuropeptide-containing nerves after parasympathetic decentralization. Journal of Urology, 131:191 A, 1984. A. Elbadawi, M.A. Atta and J.I. Franck.

15. Transsynaptic changes in cholinergic nerves of the bladder base following parasympathetic decentralization. *Journal of Urology*, 131:191A, 1984. M.A. Atta, J.I. Franck and A. Elbadawi.
16. Posttraumatic cerebral vasospasm; a treatable cause of neurologic deterioration after head injury. Congress of Neurological Surgeons, 1985 meeting. S. Bajwa, J.I. Franck, C.J. Hodge, Jr.
17. Unusual presentations of cerebral aneurysms. American Association of Neurological Surgeons, 1985 meeting. J.I. Franck, L.M. Modesti, C.J. Hodge, Jr., S. Bajwa.
18. "Post-traumatic Cerebral Vasospasm: Diagnosis and Treatment". Bugaboos Winter Neurosurgical Conference. March 1987, J.I. Franck, S. Bajwa, C.J. Hodge, Jr.
19. Unusual Pituitary Abscess and Tuberculoma Meningioma. Bugaboos Winter Neurosurgical Conference, March 1987, J.I. Franck.
20. Anterior Cervical Corpectomy and Strut Grafting - A New Procedure For Cervical Spondylosis, Tumor and Trauma. Winter Galena Neurosurgical Conference. March 1990. J.I. Franck.
21. Is Medical Care a Right? Applications of a Theory of the Moral and Political Foundations of Natural Rights. Lewiston Human Ethics Conference. June 1989.
22. A Physician and Market Perspective on the Hsiao Proposal by J.I. Franck; in *Regulating Doctor's Fees; Competition, Benefits and Controls Under Medicare*. American Enterprise Institute 1991, (Debate with William Hsiao, Ph.D., Harvard U., on the new RBRVS physician payment system - Conference originator - Joel Franck MD - National conference with members of Congress, the White House, and multiple Think Tanks and Policy Makers in attendance.)
23. An Odyssey from Bone to Metal, an independent retrospective study of 388 patients who underwent anterior cervical discectomy, corpectomy and fusion with and without anterior cervical titanium plating, Maine Neurosurgical Society, Carrabassett Valley, ME, April 1997, J.I. Franck, D. Ikossi.
24. An Odyssey from Bone to Metal, an independent retrospective study of 388 patients who underwent anterior cervical discectomy, corpectomy and fusion with and without anterior cervical titanium plating, New England Neurosurgical Society, Boston, MA, 1997, J.I. Franck, D. Ikossi.
25. An Odyssey from Bone to Metal, an independent retrospective study of 388 patients who underwent anterior cervical discectomy, corpectomy and fusion with and without anterior cervical titanium plating, Congress of Neurological Surgeons, New Orleans, LA, October, 1997, J.I. Franck, D. Ikossi.
26. NATREX and STarFix: Miniaturized Frameless Skull-Based Fixture Systems for Functional and Deep-Targeted Neurosurgery: Technical Design and Early Clinical Results, Lende Conference Presentation, Snowbird, Colorado, February 2000, J.I. Franck

27. Microframe-based deep brain stimulation utilizing STarFix: A radical new approach to frameless stereotactic functional neurosurgery utilizing a miniaturized customized pretargeted cranial platform fixture – technical description and case reports, Neuromodulation 2002, Aix Les-Bains, France, June 2002, J.I. Franck, P. Konrad, R. Franklin, F. Haer.
28. Microframe-based deep brain stimulation utilizing STarFix: Experience from Vanderbilt University and St. Mary's Regional Medical Center, Neuromodulation 2002, Aix-Les-Bains, France, June 2002, R. Konrad, J.I. Franck, J.K. Song, C.C. Kao, R. Franklin, F. Haer.
29. STarFix: A novel approach to Frameless stereotactic functional Neurosurgery utilizing a miniaturized customized pretargeted cranial platform fixture – technical description, unique features, and patient data, Seventh International Congress of Parkinson's Disease and Movement Disorders – Movement Disorder Society, Miami, Florida, November 2002, J.I. Franck, P.E. Konrad, C.C. Kao, J.R. Albea, J.K. Song, R. Franklin, F. Haer, D. Hawksley.
30. Stepping-related STN activity recorded from an ambulatory neurosurgical patient utilizing STarFix, a unique, miniaturized pretargeted stereotactic fixture, Society for Neuroscience, New Orleans, Louisiana, November 2002, J.I. Franck, L.D. Margolin, P.E. Konrad, R. Franklin, F. Haer, D. Hawksley.
31. Dynamic C1-C2 Deformity and Fracture Correction Utilizing the STEALTHSTATION O-Arm Intra-operative Synthetic CT Scanner, Southern Neurosurgical Society Annual Meeting, Greensboro, Georgia, March 2009, J.I. Franck, P. Perrin
32. New Methods of C1 C2 Transarticular Minimally Invasive Fixation-Fusion utilizing dynamic motion xray (DMX) Analysis, Stealth Image Guidance and O-Arm Intraoperative Virtual CT Scanning, DMX Innovator Seminar, Grand Cayman Island, BWI, May 2010, J.I. Franck, P. Perrin, M. Smith
33. When the Atlas Shrugs: C1-C2 Instability, Post-Traumatic Migraine Headaches, and New Methods of C1 C2 Transarticular Minimally Invasive Fixation-Fusion Utilizing Dynamic Motion X-ray (DMX) and pMRI Analysis, Stealth Image Guidance and O-Arm Intra-operative Virtual CT Scanning, INSPIRE Symposium, Phoenix, AZ, November 2010 J.I. Franck, P. Perrin, and M. Smith
34. When the Atlas Shrugs: C1-C2 Instability, Post-Traumatic Migraine Headaches, and New Methods of C1 C2 Transarticular Minimally Invasive Fixation-Fusion Utilizing Dynamic Motion X-ray (DMX) and pMRI Analysis, Stealth Image Guidance and O-Arm Intra-operative Virtual CT Scanning, DMX Innovator Seminar, Grand Cayman Island, BWI, May 2011, J.I. Franck, P. Perrin, and M. Smith
35. Post-Traumatic Migraine Headaches and Lateral C1-C2 Ligamentous Instability: A New Syndrome; Digital Motion X-Ray (DMX)/Positional MRI Diagnosis; Treatment with C1-C2 Trans-articular Fusion Utilizing the STEALTHSTATION/O-Arm; Rationale and Outcomes, Congress of Neurological Surgeons, Washington, D.C., October 2011, J.I. Franck and P. Perrin

36. When The Atlas Shrugs: Post-traumatic Migraine Headaches And Lateral C1-C2 Instability-a New Syndrome; Dynamic Motion X-ray (DMX), pMRI Diagnosis, And Treatment With C1-C2 Transarticular Fusion Utilizing Stealth Image Guidance and O-arm Intra-operative Virtual CT Scanning, Neurosurgery in the Rockies, Beaver Creek, CO., Feb. 26-Mar. 1, 2012, J.I. Franck and P. Perrin
37. STarFix – A Novel Technology for Surgical Targeting: The microTargeting Platform, DBS, other Applications, and World-Wide Experience, Neurosurgery in the Rockies, Beaver Creek, CO., Feb. 26-Mar. 1, 2012, J.I. Franck and P. Perrin
38. When The Atlas Shrugs: Post-traumatic Migraine Headaches And Lateral C1-C2 Instability-a New Syndrome; Dynamic Motion X-ray (DMX), pMRI Diagnosis, And Treatment With C1-C2 Transarticular Fusion Utilizing Stealth Image Guidance And O-arm Intra-operative Virtual CT Scanning. DMX Innovator Seminar, Grand Cayman Island, BWI, May 2012, J.I. Franck, P.Perrin, and M. Smith
39. STarFix – A Novel Technology for Surgical Targeting: The microTargeting Platform, DBS, other Applications, and World-Wide Experience. DMX Innovator Seminar, Grand Cayman Island, BWI, May 2012, J.I. Franck and P. Perrin
40. New Hope for Post Whiplash Refractory Migraine Headaches: Lateral C1- C2 Ligamentous Instability – Diagnosis and Surgical Treatment. Congress of Neurological Surgeons, Chicago, Illinois, October 2012, J.I. Franck and P. Perrin
41. The Cranial Cervical Syndrome Defined: New Hope for Post-Whiplash Migraine Headache Patients - Cervical Digital Motion X-ray (cDMX), FONAR Upright Cervical Positional MRI (CpMRI), and Minimally Invasive C1-C2 Trans-articular Lag Screw Fixation Fusion, The Cranio-Cervical Syndrome (CCS): The Vulnerability of the Human Neck and Its Impact on Cerebrospinal Fluid (CSF) Flow, New York City, New York, April 2013, J.I. Franck and P.Perrin
42. When the Atlas Shrugs: The Cranial - Cervical Syndrome and Post - Whiplash Migraine Headaches; Why Standing and Moving are Better than Lying Flat: Update on Diagnosis and Surgical Treatment, DMX Innovator Seminar, Grand Cayman Island, BWI, May 2013, J.I. Franck and P. Perrin
43. The Cranial - Cervical Syndrome: New Hope for Post - Whiplash Migraine Headaches; DMX, pMRI, and Minimally Invasive C1-C2 Surgical Stabilization, INSPIRE Conference, Tel Aviv, Israel, October 2013, J.I. Franck and P. Perrin
44. We Are Looking in All the Wrong Places: Intractable Post - Whiplash Migraine Headaches and the Cranial Cervical Syndrome; DMX, pMRI, Intra - operative Vertebral Flow Studies and Minimally Invasive C1-C2 Fusion, DMX Innovator Seminar, Grand Cayman Island, BWI, May 2014, J.I. Franck and P. Perrin

45. Whiplash and the Cranial Cervical Syndrome: The Reality - The Anatomy, Pathology, Biophysical Mechanisms, Clinical Syndromes, Definitive Radiological Diagnostic Methods, Surgical Treatment, and Medical-Legal Implications of the Whiplash Associated Disorders/ Cranial Cervical Syndrome, Parts 1 and 2, International Scandinavian Whiplash Association Seminar, Stockholm, Sweden March 7-8, 2015, J.I. Franck and P. Perrin (Invited Speakers)
46. The Medical Reality of Whiplash, DMX Innovator Seminar, Grand Cayman Island, BWI, May 2015, J.I. Franck and P. Perrin
47. Whiplash Injuries, the CranioCervical Syndrome, and Intractable Migraine Headaches: Novel Diagnostic Methodologies, Definitive Surgical Solution and Results; Biophysical Mechanisms and Neurophysiological Considerations, International Chiropractic Biophysics Symposium, Eagle, Idaho, March 28, 2016, J.I.Franck
48. Whiplash Injuries, the CranioCervical Syndrome, and Intractable Migraine Headaches: Novel Diagnostic Methodologies, Definitive Surgical Solution and Results; Biophysical Mechanisms and Neurophysiological Considerations, Innovator's Conference, Grand Cayman Island, May 27, 2016, J.I. Franck and P.Perrin
- 49: Whiplash Injuries to the Cervical Spine and Traumatic Brain Injury: A Novel Theory, Diagnostic and Surgical Methodology and Results; and Case Review, Karolinska University Hospital, Stockholm, Sweden, October 6, 2016, J.I. Franck
- 50: The Medical-Legal Reality of Whiplash Injuries; The Medical Facts and Legal Proof of a Valid Cervical Injury Claim and Proposal for Legal Reform, Neck Injury Association - Nackskadesseminarium, Gavle, Sweden, October 7, 2016, J.I. Franck and P.Perrin
- 51: Whiplash Injuries to the Cervical Spine and Traumatic Brain Injury: A Novel Theory, Diagnostic and Surgical Methodology and Results, Neck Injury Association - Nackskadesseminarium, Gavle, Sweden, October 9, 2016, J.I. Franck and P.Perrin
- 52: Whiplash Injuries to the Cervical Spine and Traumatic Brain Injury: A Novel Theory, Diagnostic and Surgical Methodology and Results; and Case Review, Innovator's Conference, Grand Cayman Island, May 26, 2017, J.I. Franck and P. Perrin
- 53: Whiplash Injuries to the Cervical Spine and Traumatic Brain Injury: A Novel Theory, Diagnostic and Surgical Methodology and Results, Innovator's Conference, Grand Cayman Island, May 25, 2018, J.I. Franck and P. Perrin
- 54: Whiplash Injury to the Cervical Spine: The Cranio-Cervical Syndrome, Novel Diagnostic Techniques and Surgical Approach; and Medical Legal Aspects, Innovator's Conference, Grand Cayman Island, May 24, 2019, P. Perrin, APRN and J.I. Franck MD

Medical School Thesis: (Yale University School of Medicine - Winner of the Mosby Award for Scientific Achievement)

On the Functional Reorganization of Cat Somatic Sensory-Motor Cortex (SmI) Via Selective Dorsal Root Rhizotomies, Yale University School of Medicine, M.D. Thesis, 1979, J.I. Franck

Medical-Legal Seminar Presentations:

1. The Medical Reality of Whiplash: The Proof of the Pudding is in your Client's Injury; J.I. Franck MD; Tampa, Florida April 9, 2015
2. The Medical Reality of Whiplash: The Proof of the Pudding is in your Client's Injury; J.I. Franck MD; Palm Beach, Florida August 4, 2015
3. The Medical Reality of Whiplash: The Proof of the Pudding is in your Client's Injury; J.I. Franck MD; Fort Meyers, Florida October 1, 2015
4. The Medical Reality of Whiplash: The Proof is in your Client's Injury; J.I. Franck MD, at The Physician's Group Personal Injury Legal Seminar, Tampa, Florida October 8, 2015
5. The Medical Reality of Whiplash: The Proof of the Pudding is in your Client's Injury; J.I. Franck MD; The Catastrophic Care Society Annual Medical-Legal Meeting, Los Vegas, Nevada November 8-11, 2015
6. The Medical Reality of Whiplash: The Proof is in your Client's Injury; J.I. Franck MD at the Annual Colorado Trial Lawyers Association Meeting, Denver, Colorado April 15, 2016
7. Beyond Whiplash: Whiplash Injuries, the CranioCervical Syndrome, and Intractable Migraine Headaches: Novel Diagnostic Methodologies, Definitive Surgical Solution and Results; J.I. Franck at the Beyond Whiplash Medical-Legal Seminar, St. Petersburg, Florida May 20, 2016
8. Traumatic Brain Impairment and Whiplash Injuries to the Cervical Spine: A Novel Theory and Methodology of Reversibility of Post-Traumatic Neurocognitive Deficits; J.I. Franck MD at the Music City Symposium on Brain Injury, Nashville, Tennessee September 25, 2016
9. Whiplash Injury to the Cervical Spine: The Cranio-Cervical Syndrome, Novel Diagnostic Techniques and Surgical Approach; and Medical Legal Aspects; J.I. Franck MD at The Florida Justice Association - Medical School for Lawyers, Orlando, Florida March 1, 2017