

CURRICULUM VITAE

ROMERGRYKO G. GEOCADIN, M.D.

Current Positions

- **Chief**, Neurosciences Critical Care Unit (NCCU), Johns Hopkins Bayview Medical Center, Baltimore, MD (2002-present)
- **Assistant Professor in Neurology, Neurosurgery and Anesthesiology-Critical Care Medicine**, Johns Hopkins University School of Medicine, Baltimore, Maryland (2001-present)
- **Active Staff (full time)**, Neurosciences Critical Care Unit and Neurology Service, Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center, Baltimore, Maryland (1999-present)

Office Addresses

The Johns Hopkins Hospital
Division of Neuroscience Critical Care
Meyer 8 - 140
600 North Wolfe Street
Baltimore, MD 21287
Tel (410) 955-7481; Fax (410) 614-7903
E-mail: rgeocadi@jhmi.edu (office)

Johns Hopkins Bayview Medical Center
Neurosciences Critical Care Unit (6th Floor)
Eastern Avenue
Baltimore, MD
Tel: (410) 550-7871

Personal Data

Birthdate: March 31, 1965

Spouse: Efigenia O. Geli-Geocadin, MD (with 2 children)

PAST POSITIONS

1999-2000 **Instructor**, Department of Neurology, JHU School of Medicine, Baltimore, MD

Post Graduate Medical Education

Clinical and Research Fellowship in Neurosciences Critical Care, 1997-1999

The Johns Hopkins Hospital and The Johns Hopkins University School of Medicine, Baltimore, Maryland
Division of Neurosciences Critical Care
Department of Neurology, Anesthesiology-Critical Care Medicine and Neurosurgery
(NCCU Director: Daniel F. Hanley, MD; Fellowship Director: Anish Bhardwaj, MD)

General Neurology Residency Training, NYU School of Medicine Program, 1994-1997,

New York University Medical Center, Bellevue Hospital Center,
New York VA Medical Center and NYU-Hospital for Joint Diseases, New York, New York
(Chairman and Residency Director: Edwin H. Kolodny, MD)

Postgraduate Internship - Internal Medicine, 1993-1994

NYU School of Medicine Program
New York Veteran's Affairs Medical Center -NYU Medical Center, New York, New York
(Chairman: Norton Spritz, MD, JD)

Postgraduate Rotating Internship, 1991-1992,

University of the Philippines - Philippine General Hospital, Manila, Philippines

Medical Education

Doctor of Medicine, 1991

University of the East - Ramon Magsaysay Memorial Medical Center (UERMMMC) College of Medicine,
Aurora Boulevard, Quezon City, Philippines

Undergraduate Education

Bachelor of Science, (Major in Zoology) 1987

University of the Philippines, Diliman, Quezon City, Philippines

Awards and Recognition

1. ***Selected Delegate, Neurology Leadership Forum*** of the American Academy of Neurology, 2003
2. ***Corporate Roundtable Clinical Research Training Fellowship Award*** of the American Academy of Neurology - Education & Research Foundation (AAN-ERF) – 2000-2002
3. ***Post Doctoral Fellowship Award***, American Heart Association-Mid-Atlantic Affiliate, 1999
4. ***David S. Dana Research Award***, Johns Hopkins Neurocritical Care Division, 1999-2000
5. ***Eleanor Naylor Dana Neuroscience Critical Care Fellowship Award***, Johns Hopkins Neurocritical Care Division, 1997 – 1998
6. ***Scholarship for Residents*** at the 48th Annual Meeting of the American Academy of Neurology, San Francisco, CA 1996

Extra curricular Activities

Chairman, Medical Student Council, College of Medicine 1989-90
University of the East – RMMMC, Quezon City, Philippines

Vice Chairman, Medical Student Council, College of Medicine, 1988-89
University of the East – RMMMC, Quezon City, Philippines

Class President, College of Medicine, Class 1991-A, 1987-88
University of the East – RMMMC, Quezon City, Philippines

Licenses and Certifications

Diplomate, (Neurology), American Board of Psychiatry and Neurology
(Certificate no. 48272), 2000-2010

Diplomate, Educational Commission for Foreign Medical Graduates (ECFMG)
(Certificate no. 0-483-981-7) valid indefinitely

Diplomate, US Medical Licensing Examination (USMLE): *Steps I, II & III (active)*

Maryland State Physician License number D0054031 – *active*

New Jersey State Physician License number MA68877 – *active*

New York State Limited Permit number P96750 - *inactive*

Philippines Professional Regulatory Commission, Licensed Physician - *active*

Professional Society Memberships

Neurocritical Care Society - *Charter Member*, 1993-present

American Academy of Neurology - *Active Member*, 1993-present
Member, Section on Critical Care & Emergency Neurology
Member, Section on Stroke and Cerebrovascular disease
Member, The Brain Matters Speaker's Bureau
Member, Medical Student Essay Awards Subcommittee, 2003-2005

American Heart Association, Stroke Council - *Member*, 1999 - present

Society of Critical Care Medicine - *Member*, 1997-present
Member, Neurology/Neurosurgery Section

Invited Peer Reviewer of the following scientific journals and organizations:

1. Critical Care Medicine (Society of Critical Care Medicine)
2. Journal of Neurological Sciences (World Congress of Neurology)
3. Acta Neurological Scandinavica
4. National Stroke Association
5. Behavioral Brain Research
6. Experimental Neurology

Academic Research Funding:

Active:

Title: Cortical Brain Injury Monitor

Role: CO-Principal Investigator - Percent Effort: 17%

Agency: NIH/SBIR HHS- SBIR Program Phase II, 1R43NS38016-01

{Sub-contract from Infinite Biomedical Technologies}

Principal Investigator: Natajara, A (IBT), Hanley, D (JHU subcontract)

Project Period: 7/1/02 – 6/30/04

Total Direct Award: \$285,133 Total Award: \$356,416 (JHU allocation only)

First Year Direct Award: \$120,569 First Year Total: \$150,712

Infinite Biomedical Technologies will design and develop a brain injury monitor for use in critical care environment, and implement signal processing. As a part of the Johns Hopkins subcontract, the instrument will be evaluated in patients who experience cardiac arrest and accompanying brain injury.

Title: Evoked Potential Monitor For Traumatic Brain Injury

Role: CO-Principal Investigator, Percent Effort: 10%

Agency: NIH/SBIR {Sub-contract from Infinite Biomedical Technologies}

Principal Investigator: Natajara, A (IBT), Thakor, N. (JHU subcontract)

Project Period: 9/1/03 – 8/30/04

Total Direct Award: \$34,390 Total Award: \$48,331 (subcontract)

First Year Direct Award: \$34,390 First Year Total: \$48,331 (subcontract)

Investigate the use of quantitative Evoked Potential (qEP) analysis to detect and monitor the evolution of brain injury after TBI

Title: Neonatal Neurological Monitor (N2M)

Role: CO-Principal Investigator, Percent Effort: 4%

Agency: NIH/SBIR {Sub-contract from Infinite Biomedical Technologies}

Principal Investigator: Natajara, A (IBT), Thakor, N. (JHU subcontract)

Project Period: 5/1/03 – 4/30/05

Total Direct Award: \$340,553 Total Award: \$482,593 (subcontract)

First Year Direct Award: \$162,835 First Year Total: \$236,815 (subcontract)

The project's goal is to develop a novel robust qEEG indicator to provide metrics of the neurological status of the infant after perinatal asphyxia.

Pending:

Title: Consequences of Cardiac Arrest: Brain Injury

Role: CO-Principal Investigator, Percent Effort: 27%

Agency: NIH-NHLBI – RO1

Principal Investigator: Thakor

Project Period: 7/1/03 – 6/30/08

Total Direct Award: \$1,500,000 Total Award: \$2,400,748

First Year Direct Award: \$300,000 First Year Total: \$472,403

This is a study into the basic mechanisms of ischemic brain injury. The goal is to use quantitative EEG analysis, neural spike data analysis to determine the different stages of ischemic injury, and explore the mechanisms involving excitotoxicity.

Title: Intravenous GCP II Inhibitor for Ischemic Brain Injury

Role: Co-Principal Investigator (10%) (JHU contract)

Agency: NIH- NINDS COOPERATIVE PROGRAM IN TRANSLATIONAL RESEARCH

Period: 07/01/04-06/30/07

Total Award: \$1,847,557 Total Award (JHU Contract): \$447,936

The aim of this translational grant is "to stimulate agreements between the academic and industrial sectors". We will test the compound GPI 5693, a specific inhibitor of glutamate carboxypeptidase II (GCP II, also termed N-acetylated alpha-linked acidic dipeptidase, NAALADase) in models of cerebral ischemia with the goal to develop treatments of neurological injury caused by cardiac arrest.

Past Funding

Title: Early EEG markers of Neurological Recovery after Cardiac Arrest Project Period: 1999-2002

Principal Investigator: RG Geocadin, Percent Effort: 80%

Agency: American Academy of Neurology Education & Research Foundation

Award name: Corporate Roundtable Clinical Research Training Fellowship

Direct Award: \$45,000/year

Aim: To study the early EEG markers of neurological recovery after resuscitation from cardiac arrest

Title: Intraoperative Neurological Monitoring, and Funding period - 2001 – 2002

Role: Investigator - 10% effort

PI: Ananth Natarajan, MD.

Agency: National Institutes of Health (NIH) SBIR Program Phase II, N43-NS-8-2397

Project Aims: To develop a novel evoked potential signal analysis method for early detection of neural injury.

Title: "Evoked Potentials" Funding Period 1997-1999

Role: Fellow/Research Associate

Agency: National Institutes of Health - RO1-NS 24282 Grant.

Primary Investigator - Nitish V. Thakor, PhD,

AIM: To study the electrophysiologic, molecular and behavioral markers of recovery after resuscitation from cardiac arrest in a rodent model.

Declined due to faculty appointment

Title: "Electroencephalographic markers of Neurological Recovery following Transient Cerebral Anoxia in a rodent model"

Role: Primary Investigator, Post Doctoral Fellowship Award 1999 to 2001

Agency: American Heart Association, Mid-Atlantic Affiliate

Aim: To study the early EEG markers of neurological recovery after resuscitation from cardiac arrest in a rodent model.

Publications and Presentations:

Original Articles:

1. Adnan I Qureshi, Jose I Suarez, Parag D Parekh, Gene Sung, **Romergrzyko G. Geocadin**, Anish Bhardwaj, Rafael J Tamargo and John A Ulatowski. Risk Factors for Multiple Intracranial Aneurysms. *Neurosurgery* 43 (1): 22- 27, 1998.
2. Lauren E. Westbrook, Orrin Devinsky and **Romergrzyko G. Geocadin**. Nonepileptic Seizures after Head Injury. *Epilepsia* 39 (9): 978-982, 1998.
3. Ernst Niedermeyer, David L. Sherman, **Romergrzyko G. Geocadin**, H. Christian Hansen and Daniel F. Hanley. The Burst Suppression Electroencephalogram. *Clinical Electroencephalography*, 30(3):99-105, 1999.
4. Adnan I Qureshi, **Romergrzyko G. Geocadin**, Jose I Suarez and John A Ulatowski: Long Term Outcome following Medical Reversal of Transtentorial Herniation in Patients with Supratentorial Mass Lesions. *Critical Care Medicine* 28 (5) 1556-1564, 2000.
5. **Romergrzyko G. Geocadin**, Jitendran Muthuswamy, David L. Sherman, Nitish V. Thakor and Daniel F. Hanley. Early Electrophysiological and Histological Changes after Global Cerebral Ischemia. *Movement Disorders* 15 (1): 14-21 (Suppl), 2000.

Original Articles (cont'd):

6. **Romergrzyko G. Geocadin**, Rutwik Ghodadra, Tetsu Kimura, Lei Hao, Daniel F. Hanley and Nitish V. Thakor. A Novel Quantitative EEG Injury Measure of Global Cerebral Ischemia. *Clinical Neurophysiology* 111(10) 1779-87. Oct 2000
7. Alexander Y. Razumovsky, Robert J. Wityk, **Romergrzyko G. Geocadin**, Anish Bhardwaj, and John A. Ulatowski. Cerebral Vasculitis: diagnosis and follow-up with transcranial Doppler ultrasonography. *J Neuroimaging*. 2001 Jul;11 (3):333-5.
8. **Romergrzyko G Geocadin**, David L Sherman, Christian Hansen, Tetsu Kimura, Johnny Chao, Ernst Niedermeyer, Nitish V Thakor, and Daniel F Hanley. Electroencephalographic Bursting and Neurological Recovery after Transient Global Cerebral Ischemia in Rats. *Resuscitation* 2002 Nov; 55 (2):193-200.
9. Jitendran Muthuswamy, Tetsu Kimura, **Romergrzyko G. Geocadin**, Nitish V. Thakor and Daniel F. Hanley. Thalamic vulnerability after prolonged global hypoxic ischemic injury in adult Wistar rats. *Neuroscience*. 2002;115 (3):917-29
10. **Romergrzyko G. Geocadin**, Alexander Y. Razumovsky, Robert J. Wityk, Anish Bhardwaj, and John A. Ulatowski. Intracerebral Hemorrhage and Post-Partum Vasculopathy. *J Neurol Sci*. 2002 Dec 15;205(1):29-34.
11. Anita Boardman; Fernando S Schlindwein, Nitish V Thakor, Rutwik Ghodadra, Tetsu Kimura and **Romergrzyko G Geocadin**. Detection of asphyxia using heart rate variability. *Med Biol Eng Comput*. 2002 Nov;40 (6):618-24.
12. Michel T. Torbey, **Romergrzyko G Geocadin**, Alexander Y Razumovsky, Preston Calvert and Daniele Rigamonti, Michael A Williams. Utility of ICP monitoring to diagnose pseudotumor cerebri without papilledema. (*Accepted – Cephalgia* 2003)
13. Goroku Moriwaki*, **Romergrzyko G. Geocadin***, Shangbao Tong, Anastasios Bezerianos, Wendy Ziai, Mary E. Blue, Krystyna Wosniak, Barbara Slusher, Nitish Thakor, Daniel F. Hanley. Cortical Injury Index Measures Neuroprotective Effects of Selective NAALADase Inhibitor after Cardiac Arrest in Rats
*Co-first authors (*Circulation – submitted -under revision* 2003)
14. Michel T. Torbey, **Romergrzyko Geocadin**, Anish Bhardwaj. Brain Arrest Neurologic Outcome Scale (BrANOS): A Predictor of Outcome Following Cardiac Arrest (*Resuscitation – submitted, 2003*)
15. Nitish Thakor, **Romegrzyko Geocadin**, Amit Malhotra, Shanbao Tong, Liviu Moraru, Anastasios Bezerianos. The Ischemic Preconditioning Effects on the HRV after Transient Global Ischemia (*International Journal of Cardiology, submitted, 2003*)
16. **Romergrzyko G. Geocadin**, Manuel Buitrago, Michel T. Torbey, Michael A. Williams, Nisha Chandra-Strobos, Daniel F. Hanley, and Peter W. Kaplan. Neurological Prognostication and Withdrawal of Life Sustaining Therapies in Patients Resuscitated from Cardiac Arrest (*In preparation for Lancet, 2003*)

Invited Reviews:

1. David S. Younger and **Romergrzyko G. Geocadin**. Diagnosis in Neuromuscular Disease. III. Sensory Disorders of the Peripheral Nervous System. *The Lower Extremity*. Vol. 3 No. 3, 1996
2. **Romergrzyko G. Geocadin**, J. Ricardo Carhuapoma and John A. Ulatowski. Intracranial Hemorrhage and Subarachnoid Hemorrhage. *Current Opinion in Critical Care* 5: 95-101, 1999
3. **Romergrzyko G. Geocadin**, Michael A. Williams. Intracranial Pressure Monitoring: Physiology, Devices and Application. *Brunei International Journal of Medicine: Millennium Issue - 2 (1): 93-102, 2000.*
4. Wendy Ziai and **Romergrzyko G. Geocadin**. Critical Care of Encephalitis and Meningitis. *Current Neurology and Neuroscience Reports*. 2001 Nov;1(6):577-86.
5. David L. Sherman, Manan K Atit, **Romergrzyko G. Geocadin**, Santosh Venkatesha, Daniel F. Hanley, Ananth Natarajan and Nitish Thakor. Diagnostic Instrumentation for Neurological Injury. *IEEE Instrumentation and Measurement Magazine*. Vol 5 No. 2 June 2002
6. Wendy Wright and **Romergrzyko G. Geocadin**. Anoxic Encephalopathy. *The Neurologist (B Stern: Editor) in preparation 2003.*

BOOKS and SYLLABI:

1. **Romergrzyko G. Geocadin, Editor** - *Global cerebral ischemia: cardiac arrest revisited from bench to bedside*. Course syllabus for the Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO, April 2002.
2. **Romergrzyko G. Geocadin, Editor** – Disorders of Intracranial Pressure for the Neurologist: The high low and normal ICP. Course syllabus for the Scientific Meeting of the 55th Meeting of the American Academy of Neurology, Honolulu, HI, April 2003

Book Chapters and Review Articles:

1. **Romergrzyko G. Geocadin** and Michael A. Williams. Neurological Examination of the Unconscious Patient. *Neurology Basic Clerkship Manual*. Department of Neurology, The Johns Hopkins University School of Medicine. Baltimore. 1999: p 35-38.
2. **Romergrzyko G. Geocadin**. Clinical Cases in Coma. *Neurology Basic Clerkship Manual*. Department of Neurology, The Johns Hopkins University School of Medicine. Baltimore. 1999: p. 8-11.
3. **Romergrzyko G. Geocadin**, Michael A. Williams. Intracranial Pressure Monitoring: Physiology, Devices and Application. *Brunei International Journal of Medicine: Millennium Issue - 2 (1): 93-102, 2000.*
4. **Romergrzyko G. Geocadin**, Michael A. Williams and Daniel F. Hanley. Intracranial Hypertension. *In: Textbook of Surgical Intensive Care Medicine*, Ed.: J.M. O'Donnell, Kluwer Publication Co. Norwell, Massachusetts, ISBN: 0-7923-7369-3, 2001.
5. **Romergrzyko G. Geocadin** and Michael A. Williams. Intracranial Pressure Monitoring. *In: Critical Care Medicine: Principles of Diagnosis and Management*, Ed: Joseph E. Parillo. Second edition; p. 249-259, Mosby-Year Book, 2001.

Book Chapters and Review Articles (cont'd):

6. **Romergrzyko G. Geocadin.** Neurological injury after cardiac arrest: Re-evaluating the Role of the Neurologist. *In: Global cerebral ischemia: cardiac arrest revisited.* Ed: R. G. Geocadin. Course syllabus for the Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO April, 2002
7. **Romergrzyko G. Geocadin** and Daniel F. Hanley. Cortical injury index measures neuroprotective effects after cardiac arrest in rats. *In: Global cerebral ischemia: cardiac arrest revisited.* Ed: R. G. Geocadin. Course syllabus for the Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO April, 2002
8. **Romergrzyko G. Geocadin** and Michael A. Williams. Disorders of Intracranial Pressure. *In: Diseases of the Nervous System: Clinical Neuroscience and Therapeutic Principles, 3rd Edition.* Eds: A.K. Asbury, G. McKhann, W.I McDonald, P.J. Goadsby and J. C. MacArthur. W.B.Saunders Company ISBN: 0521793513, November 2002
9. Michel T. Torbey, Jose I. Suarez and **Romergrzyko Geocadin.** Less common causes of quadriplegia and respiratory failure. *In: Suarez J, ed. Critical Care Neurology and Neurosurgery.* Humana Press, New Jersey (*In press, 2002*)
10. **Romergrzyko G. Geocadin** Jose Suarez and Osama Zaidat. Coma. *In: Suarez J, ed. Critical Care Neurology and Neurosurgery.* Humana Press, New Jersey (*In press, 2002*)
11. **Romergrzyko G. Geocadin.** Intracerebral Hemorrhage, *Handbook of Neuro Critical Care* Eds: A. Bhardwaj and M Mirski. Humana Press, New Jersey (*In preparation, 2002*)
12. **Romergrzyko G. Geocadin.** Head Trauma, *Handbook of Neuro Critical Care* Eds: A. Bhardwaj and M Mirski. Humana Press, New Jersey (*In preparation, 2002*)
13. **Romergrzyko G. Geocadin.** Neuroanatomy and Physiology of ICP. *In: Disorders of Intracranial Pressure for the Neurologist: The High, Low and Normal ICP* Course syllabus, 55th Annual Meeting of the American Academy of Neurology, Honolulu, HI April 2003
14. **Romergrzyko G. Geocadin.** Management of cerebral venous thrombosis and its complications. *In: the Diagnosis and Management of Dural Sinus and Cerebral Venous Thrombosis.* Course syllabus. Editor: M. Torbey. 55th Annual Meeting of the American Academy of Neurology, Honolulu, HI April 2003
15. Matthew Koenig and **Romergrzyko G. Geocadin.** Global Hypoxia-Ischemia and Critical Care Seizures. *In: Seizure in the Intensive Care Unit.* Editor: Panayiotis Varelas. Human Press (*in preparation 2003*).

Lectures and Academic Presentation

Extramural (Regional and National Meeting/Symposia)

1. **Course Director** – Disorders of intracranial Pressure for the Neurologist: The High, low and normal ICP for the Scientific Meeting of the 55th Meeting of the American Academy of Neurology, Honolulu, HI April 2003
2. **Faculty** – The diagnosis and management of dural sinus and cerebral venous thrombosis for the Scientific Meeting of the 55th Meeting of the American Academy of Neurology, Honolulu, HI April 2003

Extramural (Regional and National Meeting/Symposia) (cont'd)

3. **Course Director** - Global cerebral ischemia: cardiac arrest revisited from bench to bedside. Half Day Course for the Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO April 2002
4. **Guest speaker**, Cerebral Resuscitation, American Association of Critical Care Nursing, Baltimore, MD, Jan 2002.
5. **Invited Speaker**, Novel Neurophysiological approaches to neurological injury after cardiac arrest. Annual meeting of the Maryland Neurological Association, Baltimore, MD, Sept 2001
6. **Grand rounds speaker**, Neurological injury after cardiac arrest - Department of Neurology, New York University Medical Center, New York, NY, August 2001.

Extramural (International meeting/Symposia)

1. **Speaker**, Assessment of Global Cerebral Ischemia with EEG and SEP. Third International Neuro-ICU Symposium, Wolkenstein, Val Gardena, ITALY, Jan 13-17, 2001
2. **Grand Rounds Speaker**, Cerebral Resuscitation after Cardiac Arrest- Failures and Promises, Philippine Heart Center for Asia, Quezon City Philippines, August 2000.
3. **Grand Rounds Speaker**, Neurological Injury and Recovery After Resuscitation from Cardiac Arrest, Department of Clinical Neurosciences, University of the East Ramon Magsaysay College of Medicine, Quezon City, Philippines, August 2000.
4. **Lecturer, Stroke Rounds**, Global Cerebral Ischemia, Institute for Neurosciences, St. Luke's Medical Center, Cathedral Heights, Quezon City, Philippines, August 2000.
5. **Grand Rounds Speaker**, Medical Reversal of Transtentorial Herniation, Institute for Neurosciences, St. Luke's Medical Center, Cathedral Heights, Quezon City, Philippines, December 1999.
6. **Grand Rounds Speaker**, Intracranial Hypertension, Department of Clinical Neurosciences, University of the East Ramon Magsaysay College of Medicine, Quezon City, Philippines, December 2000.

Intramural (Johns Hopkins University)

1. **Lecturer**, Examination of the Unconscious Patient and Coma, Didactic Lectures for Medical Student, Department of Neurology, Johns Hopkins University School of Medicine 1998 - present
2. **Lecturer** – Neurocritical care monitoring – Biomedical Engineering Seminar, JHU 2001-present
3. **Lecturer** – Hemorrhagic Strokes and Traumatic Brain Injury – JHH Residents Neuro-Critical Care Monthly Lecture Series, Johns Hopkins Hospital, 2002
4. **Lecturer** – Hemorrhagic Strokes – Neurology Departmental Residents Introductory Lectures, Johns Hopkins Hospital, July 2002.
5. **Lecturer**, Head Trauma and Increased Intracranial Pressure, The Annual CNRN Review Course, Johns Hopkins University School of Nursing, Baltimore, MD July 10, 2002.
6. **Lecturer**, Neurological Assessment of the Unconscious Patients at the Advanced Clinical Topics in Neurosciences Nursing Workshop, Johns Hopkins Hospital, May 17, 2002

Intramural (Johns Hopkins University) (cont'd)

7. **Lecturer**, Medical Management of Aneurysmal Subarachnoid Hemorrhage, Division of Neuroradiology, Johns Hopkins Hospital, November 8, 2000
8. **Lecturer**, Selected topics (Advance Neurological Exam, Brain Death), Nurse Practitioner Class, Academic year, Johns Hopkins University School of Nursing 2000-2001
9. **Lecturer**, Neurocritical Care Topic Series for Residents, Department of Neurology, Johns Hopkins Hospital 1999 to present
10. **Fellow Coordinator**, NCCU Fellows Lecture Series, Neurosciences Critical Care Program, Johns Hopkins Hospital - 1998

Trainees/Students and Fellows:

1. Amit Malhotra—Undergraduate Student (Biomedical Engineering - BME) JHU, 1999
Currently medical student, Johns Hopkins School of Medicine
2. Michelle Schmidt—Undergraduate Student (Biomedical Engineering) JHU, 1999
3. Radha Gaiki - Undergraduate Student (Neurosciences) JHU, 1999
4. Jose Hagan -- Masters in Science Candidate (Neuroscience) JHU, 1998-99
Currently: Medical student, Vanderbilt School of Medicine
5. Johnny Chao -- Masters in Science Candidate (Biomedical Engineering) JHU, 1999-2002
6. Rutwik Ghodadra -- Masters in Science (Biomedical Engineering) JHU, 1997-98
--MBA. Indiana University Business School
7. Andreas Luft, MD - Fellow -Neurosciences Critical Care, Johns Hopkins Hospital, 2000-2001
-- Resident in Neurology, Tubingen, Germany
8. Goroku Moriwaki, MD, PhD – Post-Doctoral Fellow, Anesthesiology-Critical Care, BME, 1999-2000
Faculty and Attending Anesthesiologist, Hamamatsu School of Medicine, Japan
9. Panayois Varelas MD PhD – Fellow -Neurosciences Critical Care, Johns Hopkins Hospital, 1999-2000
-- Assistant Professor and Director, Neuro-ICU Medical College of Wisconsin
10. Abutaher Yahia, MD – Fellow in Neurosciences Critical Care Johns Hopkins Hospital, 1999-2000
-- Assistant Professor and Director, Neuro-ICU Millard Fillmore Hospital, SUNY-Buffalo
11. Wendy Ziai, MD - Fellow in Neurosciences Critical Care Johns Hopkins Hospital, 1999-2000
-- Assistant Professor of Neurology and Attending, NCCU Johns Hopkins Hospital
12. Michel Torbey, MD, MPH - Fellow in Neurosciences Critical Care Johns Hopkins Hospital, 1999-2000
--Director of Stroke and Critical Care, Medical College of Wisconsin
13. Tatsuaki Iwamoto, MD, Post-Doctoral Fellow, Neurology-ACCM, BME, JHU 2001 –2003
14. Peter Limpar, MD, Post-Doctoral Fellow, Neurology, ACCM, BME, JHU 2001-2003
15. Olivia Gumiran, MD – Post-doctoral fellow (observer) NCCU-Johns Hopkins Hospital, 2001-2002
Attending anesthesiologist – Univ of the East RM College of Medicine, Philippines
16. Diana Green Chandos, MD Fellow in Neurosciences Critical Care- Johns Hopkins Hospital, 2001-2002
Neurocritical care consultant Howard County General Hospital, Maryland
17. Robert Stevens, MD Fellow in Neurosciences Critical Care-Johns Hopkins Hospital, 2001-2002
Assistant Professor in Anesthesiology and Attending – NCCU, Johns Hopkins Hospital
18. Chere Monique Chase, MD Fellow in Neurosciences Critical Care Johns Hopkins Hospital, 2001- 2003
-- Director Stroke and Neuro-ICU Service Forsythe Hospital, North Carolina
19. Anise Ardelt, MD, PhD -- Fellow in Neurosciences Critical Care -- Johns Hopkins Hospital, 2002- 2004
20. Connie Chen, MD Fellow in Neurosciences Critical Care -- Johns Hopkins Hospital, 2002- 2004
21. Wendy Wright, MD Fellow in Neurosciences Critical Care -- Johns Hopkins Hospital, 2002- 2004
22. Julio Chalela, MD Fellow in Neurosciences Critical Care -- Johns Hopkins Hospital, 2003- 2005
23. Christopher Milford, MD Fellow in Neurosciences Critical Care -- Johns Hopkins Hospital, 2003- 2005
24. Joao Gomes, MD Fellow in Neurosciences Critical Care -- Johns Hopkins Hospital, 2003- 2005

Abstracts and Presentations:

1. Keith A Siller, David Panasci, **Romergrzyko G. Geocadin**, Jeffrey Nelson, Margareta Griesz and Gerald Varlotta: Catastrophic Central Nervous System Dysfunction During Methylprednisolone Injection for Refractory Pain Syndrome: Report of 2 Cases. *Poster Presentation at the 120th Annual Meeting of the American Neurological Association, Washington DC, Oct. 1995. (Annals of Neurology. 38 (2): 397-8, Aug.1995).*
2. **Romergrzyko G. Geocadin**, Adnan I Qureshi, Jose I Suarez, Parakh D Parag, Rafael J Tamargo, Anish Bhardwaj, John A Ulatowski: Cerebrovascular Risk Factors and the Risk of Symptomatic Cerebral Vasospasm following Subarachnoid Hemorrhage. *Poster Presentation at the 50th Annual Meeting of the American Academy of Neurology, April 25-May 2, 1998, Minneapolis, MN. (Neurology. 50 (Suppl.4): A412 April 1998).*
3. **Romergrzyko G. Geocadin**, Rutwik Ghodadra, Tetsu Kimura, Hao Lei, Nitish V. Thakor and Daniel F. Hanley: EEG and Neurological Recovery after Transient Global Cerebral Ischemia. *Poster presentation in the 123rd meeting of the American Neurological Association, October 1998, Montreal, Canada*
4. **Romergrzyko G. Geocadin**, Rutwik Ghodadra, Tetsu Kimura, Hao Lei, Daniel F. Hanley and Nitish V. Thakor: Early EEG Quantifies Cerebral Injury and Predicts Neurological Recovery after Transient Global Ischemia. *Poster presentation in the 28th Annual Meeting of the Society for Neuroscience, November 7-12, 1998, Los Angeles, CA. (Soc. Neurosci. Abstr., 24 (2), p. 2150, 1998).*
5. **Romergrzyko G. Geocadin**, John G. Chubbuck, Alexander Razumovsky, Neal Naff, Daniel F. Hanley and Michael A. Williams: Implantation of a Telemetric Intracranial Pressure Sensor in Humans: Phase 1 Feasibility Study. *Poster Presentation the 1999 Annual meeting of the American Association of Neurological Surgeons, New Orleans, LA.*
6. Hans Christian Hansen, **Romergrzyko G. Geocadin**, David S. Sherman, Nitish V. Thakor, Ernst Niedermeyer, Daniel F. Hanley. Burst suppression EEG nach experimenteller globalen zerebraler Ischaemia: fruehe Veraenderungen und klinische Entwicklung. *Proc German Anesthesiol Soc. 1998.*
7. **Romergrzyko G. Geocadin**, Adnan I. Qureshi, Jose I. Suarez and John A. Ulatowski. Long Term Outcome following Medical Reversal of Transtentorial Herniation in Patients with Supratentorial Mass Lesions. *Platform Presentation in the 1999 Scientific Meeting of the 51st Meeting of the American Academy of Neurology, Toronto, CANADA*
8. David L. Sherman, **Romergrzyko G. Geocadin**, Hans Christian Hansen, Tetsu Kimura, Johnny Chao, Jose Hagan, Ernst Niedermeyer, Nitish V. Thakor and Daniel F. Hanley. Early EEG Bursting and Neurological Recovery after Experimental Cerebral Anoxia. *Poster Presentation in the 1999 Scientific Meeting of the 51st Meeting of the American Academy of Neurology, Toronto, CANADA.*
9. Abutaher M. Yahia, Adnan I. Qureshi, **Romergrzyko G. Geocadin**, Anish Bhardwaj, Michael A. Williams, John A. Ulatowski and Daniel F. Hanley. Cardiac Arrythmia in Patients with Severe Guillain-Barre Syndrome. *Poster Presentation in the 1999 Scientific Meeting of the 51st Meeting of the American Academy of Neurology, Toronto, CANADA.*
10. David L. Sherman, Hans Christian Hansen, **Romergrzyko G. Geocadin**, Nitish V. Thakor, Ernst Niedermeyer and Daniel F. Hanley. EEG Burst Suppression following Experimental Global Cerebral Anoxia: Early Impairment and Neurological Course. *Platform Presentation to the 1999 meeting of the Eastern Electroencephalographers Association, New York, NY.*
11. **Romergrzyko G. Geocadin**, Jitendran Muthuswamy, Nitish V. Thakor and Daniel F. Hanley. Early electrophysiological and Histological Changes after Global Cerebral Ischemia. *Presented in the Workshop on Animal Models - Myoclonus Research Foundation, Inc. and National Institutes of Health. March 21-22, 1999, Washington D.C.*

Abstracts and Presentations (cont'd):

12. Panayiotis N. Varelas, **Romergrzyko G. Geocadin**, Alexander Razumovsky, Maureen O'Brien, Daniel F. Hanley and Michael A. Williams. Evaluation of Ventriculoperitoneal Shunt Dysfunction by Shunt Reservoir Pressure Monitoring. *Oral presentation to the Congress of Neurological Surgeons, Boston MA, November 1999.*
13. Ernst Niedermeyer, David L. Sherman, **Romergrzyko G. Geocadin**, H. Christian Hansen and Daniel F. Hanley. Burst-Suppression EEG, Anoxia and Oxygenation (Intensive Care Treatment). *Annual Meeting of the American Clinical Neurophysiology Society, October 30- November 1, 1999, St. Louis, Missouri.*
14. M. Atit ;J. Hagan.;S. Bansal ;R Ichord; **R. Geocadin**; C. Hansen; D. Sherman and N. Thakor. EEG Burst Detection: Performance Evaluation. *EMBS – BMS Conference, October 1999. Atlanta, GA*
15. Adnan I. Qureshi, **Romergrzyko G. Geocadin**, Jose I. Suarez and John A. Ulatowski. Long Term Outcome following Medical Reversal of Transtentorial Herniation in Patients with Supratentorial Mass Lesions. *INTERNATIONAL SYMPOSIUM ON COMA AND DEATH. February 22-25, 2000, Havana, Cuba*
16. **Romergrzyko G Geocadin**, Alexander Razumovsky, Anish Bhardwaj, Robert J Wityk, Baltimore, MD and John A Ulatowski. Post-partum Cerebral Vasculopathy and Intracerebral Hemorrhage. *Scientific Meeting of the 52nd Meeting of the American Academy of Neurology, San Diego, CA April, 2000.*
17. Tetsu Kimura, **Romergrzyko G Geocadin**, Jitendran Muthuswamy, Radha Gaiki, Johnny KT Chao, Goroku Moriwaki, Nitish V Thakor, Daniel F Hanley. Early Neuronal Injury in the Reticular Thalamic Nucleus and Somatosensory Evoked Potential Recovery after Transient Global Ischemia in Rodents. *Scientific Meeting of the 52nd Meeting of the American Academy of Neurology, San Diego, CA April, 2000.*
18. Michael A Williams, **Romergrzyko G Geocadin**, Alexander Y Razumovsky, Preston Calvert and Daniele Rigamonti. Utility of ICP monitoring to diagnose pseudotumor cerebri without papilledema. *11th International Symposium in Intracranial Pressure and Neurological Monitoring, Cambridge, UK, July 22-26, 2000.*
19. Amit D. Malhotra, **Romergrzyko G. Geocadin**, Shanbao Tong, Anastasios Bezerianos, Daniel F. Hanley, Nitish V. Thakor Neuroprotection and Injury Severity Correlate with Entropy EEG Measures in a Cardiac Arrest Model. *Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO April, 2002*
20. Goroku Moriwaki, **Romergrzyko G. Geocadin**, Shangbao Tong, Anastasios Bezerianos, Wendy Ziai, Mary E. Blue, Barbara Slusher, Nitish Thakor, Daniel F. Hanley. Cortical Injury Index Measures Neuroprotective Effects of Selective NAALADase Inhibitor after Cardiac Arrest in Rats *Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO, April, 2002*
21. **Romergrzyko G. Geocadin**, Olivia Flores-Gumiran, Michel T. Torbey, Anish Bhardwaj, Marek A. Mirski. Cerebral Herniation Syndrome: Clinical Course and Immediate Outcome *Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO April, 2002*
22. Michel T. Torbey, **Romergrzyko Geocadin**, Anish Bhardwaj. Brain Arrest Neurologic Outcome Scale (BrANOS): A Strong Predictor of Outcome Following Cardiac Arrest *Scientific Meeting of the 54th Meeting of the American Academy of Neurology, Denver, CO April, 2002*

Abstracts and Presentations (cont'd):

23. Santosh Venkatesha, Oleg Gerovichev ,Homayoun Mozzafari Naeni, Nitish Thakor, **Romergrgyko Geocadin**. Somatosensory Evoked Potential Monitoring and Cerebral Perfusion in an Acute Experimental Intracranial Mass Expansion Model in Rats. *EEG & CLINICAL NEUROSCIENCE SOCIETY CONFERENCE: Clinical Electrophysiology - Integration Across Disciplines and Modalities. September 2002. Baltimore, MD*
24. Al Hatib FS, Venkatesha S, Wallace JM, Natarajan A Sherman DL, **Geocadin RG**, Hanley DF, Thakor NV. A Real Time Neurological Monitoring System for Cortical Injury Detection During Cardiac Arrest. *EEG & CLINICAL NEUROSCIENCE SOCIETY CONFERENCE: Clinical Electrophysiology - Integration Across Disciplines and Modalities. September 2002. Baltimore, MD*
25. **Romergrgyko G. Geocadin** MD, Manuel Buitrago MD, Michel T. Torbey MD, Gregory Mathews MD, PhD, Michael A. Williams MD and Peter W. Kaplan MBBS, FRCP THE IMPACT OF NEUROLOGICAL PROGNOSTICATION BY CLINICAL EXAMINATION,EEG AND CORTICAL EVOKED POTENTIALS (CEP) ON WITHDRAWAL OF LIFE USTAINING THERAPIES IN PATIENTS RESUSCITATED FROM CARDIAC ARREST 56th Meeting of the American Epilepsy Society. *Seattle Washington, December 2002*
26. **Romergrgyko G. Geocadin, MD**, Shangbao Tong, PhD, Anastasios Bezerianos, PhD, Tatsuaki Iwamoto, MD, Nitish V. Thakor, PhD and Daniel F. Hanley, MD. Approaching Brain injury after Cardiac Arrest: from Bench to Bedside. *1st International IEEE EMBS Special Topic Conference on Neural Engineering, in Capri, Italy March 20 – 22, 2003*
27. **Romergrgyko G. Geocadin**, Baltimore, MD, Manuel Buitrago, Tubingen, Germany, Michel T. Torbey, Michael A. Williams, Daniel F. Hanley, Peter W. Kaplan, The Impact of Neurological Prognostication by Clinical Examination, EEG and Cortical Evoked Potentials on Withdrawal of Life Sustaining Therapies in Patients Resuscitated from Cardiac Arrest. *55th Scientific Meeting of American Academy of Neurology, Honolulu, HI, April 2003*
28. Santosh Venkatesha, **Romergrgyko G. Geocadin**, Oleg Gerovichev, Feras Al Hatib, Homayoun Mozaffari, David L. Sherman, Ananth Natarajan, Nitish V. Thakor, Daniel F. Hanley. Quantitative Continuous Somatosensory Evoked Potential (SEP) and Cerebral Perfusion Pressure (CPP) Monitoring in a Rodent Model of Intracranial Mass Lesion. *55th Scientific Meeting of American Academy of Neurology, Honolulu, HI, April 2003*

Selected Industry and Intramural Clinical Research Activities:

1. **Co-investigator**, Repinotan for Stroke Study, (sponsor: Bayer), 2003
2. **Co-investigator**, ARTIST Trials for ischemic stroke, sponsor: CATO-Yamanochi, 2003
3. **Co-Investigator**, NOVO-7 for Intracerebral Hemorrhage, sponsor: NOVO-Nordisk, 2003
4. **Co-Investigator**, IHAST Trial for Subarachnoid Hemorrhage, sponsor: NIH-Multicenter Trial, 2002-2003
5. **Co-Investigator**, rTPA for Intraventricular Hemorrhage, sponsor: FDA/NIH-Multicenter Trial 2001-present
6. **Co-Investigator**, Valcyclovir for Herpes Simplex Encephalitis Trial, sponsor: NIH-Multicenter, 2002,2003

Selected Industry and Intramural Clinical Research Activities (cont'd):

7. **Co-investigator**, *Outcome after Reversal of Transtentorial Herniation in Human*. Johns Hopkins Hospital Neurosciences Critical Care Unit, Intramural funding 1999-present.
8. **Co-Investigator**, *The Safety and Effectiveness of the COOLGARD System with COOL Line catheters in reducing fever in the Neurointensive Care Unit Patients*. JHH –NCCU (sponsored by Alsius Corporation), 2000.
9. **Primary Investigator**, *Randomized Controlled Study of Equiosmolar dose of Mannitol versus Hypertonic saline for acute intracranial hypertension*. . JHH-NCCU, Intramural funding, 2002-present.
10. **Co-investigator**, *A double blind placebo controlled, safety, efficacy and dose response trial of 2 intravenous doses of MS204352 in patients with acute stroke*. Johns Hopkins Hospital, Neurosciences Critical Care Unit, 1999 (funded by Bristol-Myer-Squibb)
11. **Co-Investigator**, *Serum Markers for Vasospasm in Aneurysmal Subarachnoid Hemorrhage in Humans*, Johns Hopkins Hospital, 1998 (funded by ICOS)
12. **Co-investigator**, *Evaluation of a Telemetric Intracranial Pressure Monitoring Device in Humans*, Johns Hopkins Hospital, Neurosciences Critical Care Unit, 1998 (funded by the National Institutes of Health - SBIR Grant).
13. **Co-investigator**, *Effect of Urokinase on Resolution of Intraventricular Hemorrhage*, Johns Hopkins Hospital, Neurosciences Critical Care Unit, 1998 (funded by the National Stroke Association).
14. **Co-investigator**, *The Clomethiazole Acute Stroke Study in t-PA treated Ischemic Stroke (CLASS-T): A Double Blind, Parallel Group, Multinational, Multicenter, Study of Safety of IV Clomethiazole compared to Placebo in Patients treated with t-PA for Acute Ischemic Stroke*. (funded by Astra Pharmaceuticals) Johns Hopkins Hospital, 1998
15. **Co-investigator**, *The Clomethiazole Acute Stroke Study in Ischemic Stroke (CLASS-I): A Double Blind, Parallel Group, Multinational, Multicenter, Study of Safety of IV Clomethiazole compared to Placebo in Patients with Acute Ischemic Stroke*. (funded by Astra Pharmaceuticals) Johns Hopkins Hospital, 1998
16. **Co-investigator**, *The Clomethiazole Acute Stroke Study in Acute Intracerebral Hemorrhage (CLASS-H): A Double Blind, Parallel Group, Multinational, Multicenter, Study of Safety of IV Clomethiazole compared to Placebo in Patients with Acute Intracerebral Hemorrhage*. (funded by Astra Pharmaceuticals) Johns Hopkins Hospital, 1998
17. **Co-investigator**, *Phase 2, Double Blind, Placebo-Controlled, Pharmacology and Dose Ranging Safety Study of HU23F2G (HALT) in Patients with Ischemic Stroke*, Johns Hopkins Hospital, 1997.
18. **Co-Investigator**, *The Effects of 500 mg Citicholine on the Evolution of Lesion Volume in Human Stroke Using Diffusion Weighted Magnetic Resonance Imaging*. Protocol #IP 302-010, (funded by Interneuron Pharmaceuticals, Inc.) NYU Medical Center, 1997.
19. **Sub-investigator**, *NEURONTIN Study: Titration to Effect, Profile of Safety (STEPS)* (funded by Parke-Davis) Bellevue Hospital, 1995.

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