

CURRICULUM VITAE

DATE: 02.13.2012

NAME: Alex Bekker, M.D., Ph.D.

PRESENT TITLE: Professor of Anesthesiology and Neurosurgery, Vice Chair for Research

OFFICE ADDRESS: 550 First Ave, RIRM605, New York, NY, 10016

EDUCATION:

- A. Undergraduate Graduate and Professional
Tbilisi State University
Tbilisi, Georgia (former USSR)
B.S. (Chemistry) May, 1974

- B. Graduate and Professional
New Jersey Institute of Technology
Newark, NJ
M.S. (Chemical Engineering) May, 1983

New Jersey Institute of Technology
Newark, NJ
Ph.D. (Biomedical Engineering) October, 1987

UMDNJ-New Jersey Medical School
Newark, NJ
M.D. May, 1991

POSTGRADUATE TRAINING:

- A. Internship and Residencies
St. Joseph's Hospital, Paterson, NJ
Intern in Medicine and Pediatrics
07.1991-06.1992

Columbia-Presbyterian Medical Center, New York, NY
Resident, Anesthesiology
07.1992-06.1995

- C. Postdoctoral Appointments
New York University School of Medicine, New York, NY
Physician Leadership Development Course
09.2007-05.2008

MILITARY: None

ACADEMIC APPOINTMENTS:

Department of Anesthesiology
UMDNJ-NJMS
Assistant Professor, Chair
5.2012-present

Departments Anesthesiology and Neurosurgery
New York University School of Medicine
Professor
10.2008-4.2012

Department of Neurosurgery
New York University School of Medicine
Associate Professor
10.2004-10.2008

Department of Anesthesiology
New York University School of Medicine
Associate Professor
10.2001-10.2008

Department of Anesthesiology
New York University School of Medicine
Assistant Professor
07.1995-10.2001

Department of Biomedical Engineering
New Jersey Institute of Technology
Adjunct Professor
09.1991-05.2002

ADMINISTRATIVE APPOINTMENTS:

Department of Anesthesiology
UMDNJ-NJMS
Assistant Professor, Chair
5.2012-present

Department of Anesthesiology
Vice Chair for Research
New York University Medical Center
2008-2012

Department of Anesthesiology
Director for Clinical Research
New York University Medical Center
2004-2008

Department of Anesthesiology
Coordinator of Operating Rooms Scheduling
New York University Medical Center
2003-2008

Department of Anesthesiology
Chief of Neuroanesthesia
New York University Medical Center
1999-2008

Department of Anesthesiology

Associate Director of Neuroanesthesia
New York University Medical Center
1997-1999

HOSPITAL APPOINTMENTS:

Department of Anesthesiology
UMDNJ-NJMS
Attending Anesthesiologist
5.1-present

Department of Anesthesiology
New York University Langone Medical Center
Attending Anesthesiologist
07.2008-04.2012

Department of Anesthesiology
Bellevue Hospital
Attending Anesthesiologist
07.1995-0.8-2008

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS:

Allied-Signal Corporation, Morristown, NJ
Research Engineer/Project Manager
1981-1986

Department of Chemical Engineering, Columbia University, New York, NY
Visiting Scholar
1980-1981

Catalysis Research Corporation, Palisades Park, NJ
Research Scientist
1979-1981

Research Institute, Tbilisi, USSR
Research Chemist
1975-1977

LICENSURE:

Physician/NY
Physician /NJ

DRUG LICENSURE:

CDS:
DEA:

CERTIFICATION: American Board of Anesthesiology

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

Association of University Anesthesiologists
Member
2005-present

American Society of Anesthesiologists Name of Organization

Neurotrack Educational Committee *Member or other Position*
2011-present

American Society of Anesthesiologists
Clinical Neuroscience Committee
2004-present

New York State Society of Anesthesiologist/Post-Graduate Assembly
Scientific Program Committee
2003-present

Society for Neurosciences in Anesthesiology and Critical Care
Board Member, Director of Educational Committee
2005-2008

New York State Society of Anesthesiologists/Post-Graduate Assembly
Continuing Medical Education Committee
2003-2011

New York State Society of Anesthesiologists/Post-Graduate Assembly
Committee on Miniworkshops
1999-2005

New York State Society of Anesthesiologists/Post-Graduate Assembly
Committee on Problem Based Learning Discussion
1997-2004

International Anesthesia Research Society
1992-present

Society for Technology in Anesthesia
1995-2002

Society for Intravenous Anesthesia
1997-2002

Microvascular Society
1987-1989

American Institute of Chemical Engineers
1982-1988

HONORS AND AWARDS:

Presidential Scholarship Award
New Jersey Institute of Technology
1986-1987

Tau Beta Pi, The Engineering Honor Society
1983-present

BOARDS OF DIRECTORS/TRUSTEES POSITIONS:

Founder and CEO of the Foundation for Perioperative Research and Education, an organization dedicated to reducing complications related to surgery and anesthesia through research, professional education, and public advocacy, 2008

Center for Study and Treatment of Pain
Member of the Advisory Board
2010-present

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

New Jersey Commission on Science and Technology
Grant Reviewer
2000

SERVICE ON MAJOR COMMITTEES:

- A. International (*Name, Inclusive Dates*)
- B. National (*Name, Inclusive Dates*)
- C. Medical School/University (*Name, Inclusive Dates*)
- D. Hospital (*Name, Inclusive Dates*)
- E. Department (*Name, Inclusive Dates*)
- F. Editorial Boards
 - Sphere, Journal of the New York Society of Anesthesiologists, 2003-present
 - Journal of Neurosurgical Anesthesiology, 2006-present
 - The International Journal of General Medicine, 2008-present
 - The International Journal of Neurosurgery, 2008-present
 - World Journal of Anesthesiology, 2011-present
- G. *AdHoc* Reviewer (*Journal Name, Inclusive Dates*)
 - New England Journal of Medicine
 - Anesthesia & Analgesia
 - Anesthesiology
 - Journal of Clinical Anesthesia
 - Journal of Neurosurgical Anesthesia
 - Drugs & Aging
 - The Journal of Respiratory Diseases
 - Microvascular Research
 - General Hospital Psychiatry
 - Surgical Neurology
 - American Journal of Surgery

SERVICE ON HOSPITAL COMMITTEES:

New York University Medical Center

- | | |
|--------------|-------------------------------------|
| 1998-present | Anesthesiology Research Committee |
| 1999-present | Pharmacy & Therapeutics Committee |
| 2002-present | Operating Room Management Committee |
| 2002-present | Anesthesiology Finance Committee |

2003-present Hospital Perioperative Services Committee
2007-present Committee on Continuous Medical Education
2008 Neurosurgery Chair Search Committee (ad hoc)

TEACHING RESPONSIBILITIES: (Teaching effectiveness should be addressed in nominating letter)

- A. Lectures or Course Directorships
1. New York University School of Continuing Medical Education, Neuroanesthesia for Occasional Anesthesiologists, Course Director, 2005-2011
 2. New York University School Of Medicine, Department of Anesthesiology, Neuroanesthesia Teaching Conferences, 1999-2008
- B. Research Training
- Post Doctoral Fellows:
- P. Beklayd, M.D., 1999
R. Shah, MD., 2004-2005
A. Gorny, M.D., 2005-2006
A. Jurmain, M.D., 2006
R. Ahmed, M.D. 2005-2007
A. Pitti, M.D. 2006-2008
A. Zaslavski, M.D., 2008-2009
A. Sapson, M.D., 2009-2010
K. Howell, M.D., 2009-2010
S. Didehvar, M.D., 2009-2011
R. Scholl, M.D., 2001-2012
- Pre Doctoral Students: *name, dates (inclusive) of training*
- Thesis Advisor for Master of Science in Engineering, New Jersey Institute of Technology
- Puranic B, MS 1992-1993
Sundaram G, MS 1993-1994
Mistry A, MS 1996-1997
Shalago J, MS 1997-1998
Wolk S, MS 1997-1999
Shah R, MS 1998-1999

GRANT SUPPORT: (*Please list newest or most current first*)

- A. Principal Investigator
1. Cumberland Pharmaceuticals Inc., Pilot study on the effects of intravenous ibuprofen on inflammatory responses in patients undergoing laparoscopic cholecystectomy. Correlation with clinical outcomes, 2011-2012, \$23,000
 2. Hospira Inc., Pilot study on the effect of dexmedetomidine on inflammatory responses in patients undergoing lumbar spinal fusion. Correlation with clinical outcomes, 2010-2011, \$85,000
 3. Eisai Co., Preventing propofol injection pain: prospective randomized trial comparing propofol versus fospropofol, 2010-2011, \$198,000
 4. Eisai Co., A randomized, double-blind, placebo controlled study to evaluate the safety and efficacy of intravenous palonosetron with intravenous dexamethasone versus intravenous palonosetron for the prevention of immediate and delayed post-operative nausea and vomiting in subjects undergoing elective laparoscopic surgeries with a high emetogenic risk, 2010-2011, \$254,000
 5. The Medicine Co. Assessment of safety and efficacy of clevidipine in patients undergoing craniotomy. 2009, \$65,000
 6. NYU Alzheimer's Disease Center/National Institute of Health, Postoperative cognitive decline, inflammation, and plasma levels of beta-amyloids, 2008-2010, \$23,300
 7. Empire Clinical Research Investigator Program (ECRIP), Rivastigmine prophylaxis for elderly patients at risk for delirium: A randomized placebo-controlled pilot study, 2008-2009, \$120,000

8. Hospira Inc., The effect of dexmedetomidine on perioperative hemodynamics in patients undergoing craniotomy, 2006-2007, \$96,000
9. Merck & Co., A double-blind evaluation of preincisional rofecoxib versus ketorolac in reducing postoperative pain and opioid requirement after arthroscopic knee surgery, 2003-2005, \$38,000
10. Abbott Laboratories, Inc., Evaluation of dexmedetomidine as a sedative agent for awake carotid endarterectomy, 2002-2004, \$11,000
11. Merck & Co., A double-blind evaluation of preincisional rofecoxib versus placebo in 2001-2002 reducing postoperative pain and opioid requirement after lumbar disk surgery, 2001-2002, \$33,000
12. Sanofi Pharmaceuticals Inc., Treatment of delayed neurologic deficits secondary to subarachnoid hemorrhage with milrinone, 2001-2002, \$25,000
13. GlaxoWellcome Inc., Cognitive functional recovery in a geriatric population after spine surgery: comparison between remifentanyl-nitrous oxide and isoflurane-nitrous oxide-fentanyl anesthesia, 1999-2000, \$15,000
14. Sanofi Pharmaceuticals Inc., Computer simulation of cardiovascular mechanics: assessment of cardiotropic drug effects on myocardial oxygen balance, 1998-2000, \$20,000

B. Co-Investigator

1. American Federation of Aging Research, In vivo study of age-related decline in synaptic plasticity, 2011-2012, \$100,000 (PI: Guang Yang, Ph.D.)
2. F.M. Kirby Foundation, Inhaled nitric oxide for treatment of acute ischemic stroke. 2010/2011, \$100,000 (PI: Yong-Sheng Li, MD)
3. Schering-Plough Corp., A Randomized, double-blind, dose-ranging, placebo-controlled study of single-dose oral rolapitant monotherapy for the prevention of postoperative nausea and vomiting (PONV), 2008-2009, \$19,000 (Onsite PI, Multicenter Clinical Trial)
4. Aspect Medical Systems, BIS Variability as a Measure of Analgesia During Spine Surgery. Pilot study, 2008, \$80,000 (PI: Marc Bloom, MD)
5. Hospira Inc., A Phase III, randomized, double-blind, placebo-controlled, multicenter study evaluating the efficacy and safety of dexmedetomidine in the prevention of postoperative delirium in subjects undergoing surgery for fractured hip with general anesthesia, 2008, \$40,000 (Onsite PI, Multicenter Clinical Trial)
6. Wyeth, Corp., A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study of Intravenous Methylnaltrexone(MOA-728) for the treatment of Postoperative Ileus After Ventral Hernia Repair, 2007-2008, \$78,000 (Onsite PI, Multicenter Clinical Trial)
7. Hospira Inc. A Phase III, randomized, double-blind, placebo-controlled study evaluating the safety and efficacy of dexmedetomidine for sedation during monitored anesthesia care, 2007, \$190,000 (Onsite PI, Multicenter Clinical Trial)
8. HospiraInc., A Phase III, randomized, double –blind, placebo controlled, multicenter study evaluating the safety and efficacy of dexmedetomidine used for sedation during elective awake fiberoptic intubation, 2006-2007, \$70,000 (Onsite PI, Multicenter Clinical Trial)
9. Durect Corp., A Randomized, double-blind, placebo-controlled study of the efficacy and safety of subcutaneous SABER-bupivacaine in patients undergoing open inguinal hernia repair, 2006-2007, \$60,000, Onsite PI, Multicenter Clinical Trial)
10. Merck & Co., Inc., Post-operative study to investigate emesis (POSITIVE), 2006-2007, \$10,000, Onsite PI, Multicenter Clinical Trial)
11. Organon, Inc., A Multicenter, randomized, parallel group, comparative, safety assessor blinded, phase IIIa trial in adult surgical subjects under general anesthesia at increased risk for pulmonary complications, 2006, \$ 40,000 (Onsite PI, Multicenter Clinical Trial)
12. GlaxoSmithKline Group, A Phase III, multicenter, randomized, double-blind study to evaluate the safatey and efficacy of 50 mg oral dosing with neurokinin-1 receptor

- agonists GW67769 for the prevention of postoperative nausea and vomiting in subjects at high risk for emesis, 2006, \$ 35,000, Onsite PI, Multicenter Clinical Trial)
13. Guilford Pharmaceuticals, Phase II randomized open-label study to examine the safety and efficacy of Aquavan injection for sedation of patients requiring intubation and mechanical ventilation in the ICU, 2005, \$ 60,000 (Onsite PI, Multicenter Clinical Trial)
 14. National Institute of Health, Subtle disturbances of cobalamin status, 2005-20007, \$5,000, Onsite Investigator (PI: Ralph Carmel, M.D.)
 15. Aspect Medical Systems, An evaluation of Aspect's BIS Vista brain monitoring device, 2005-2006, \$10,000 (PI: Marc Bloom, M.D.)
 16. Helsinn Pharmaceuticals, A randomized, double-blind, multicenter, phase iii study to evaluate the efficacy and safety of single iv doses of palonsetron vs. placebo in outpatients to prevent post-operative nausea and vomiting, 2005-2006, \$46,000 (Onsite PI, Multicenter Clinical Trial)
 17. GlaxoSmithKline Group., A multicenter, randomized, double-blind, placebo-controlled, phase II study to evaluate the safety, efficacy, and pharmacokinetics of the oral Neurokinin-1 receptor antagonist, GW679769, when administered with intravenous ondansetron hydrochloride for the prevention of post-operative nausea and vomiting (PONV) in female subjects, 2005, \$50,000 (Onsite PI, Multicenter Clinical Trial)
 18. Ortho-McNeill Pharmaceuticals, Comparison of the safety and efficacy of a fentanyl HCl transdermal system and Morphine IV patient controlled analgesia for pain management following non-emergent abdominal surgery, 2004-2005, \$60,000 (Onsite PI, Multicenter Clinical Trial)
 19. Ortho-McNeil Pharmaceutical, An observational multicenter prospective study of resource utilization in the management of postoperative pain using intravenous patient controlled analgesia, 2004-05, \$15,000 (Onsite PI), Multicenter Clinical Trial)
 20. GlaxoSmithKline Group, A multicenter, randomized, double blind, placebo-controlled study to evaluate the efficacy of intravenous ondansetron with dexamethasone versus intravenous ondansetron for prevention of post-operative nausea and vomiting in female subjects undergoing outpatient laparoscopic surgeries, 2004, \$48,000 (Onsite PI, Multicenter Clinical Trial)
 21. Bristol-Myers Squibb Co., Double-blind, randomized, placebo-controlled study of the analgesic efficacy and safety of acetaminophen injection 1G Vs. placebo for pain following total hip arthroplasty, 2003-2005, \$56,000, Onsite PI, Multicenter Clinical Trial)

PUBLICATIONS:

- A. Refereed Original Article in Journal
 1. Egiazarov A, Abzianidze T, **Bekker A**, Poroshina M. Separation of carbon isotopes using electrical discharge. *Proceedings of the Academy of Science GSSR*, 4:354-362, 1978
 2. **Bekker A**, Sevardia T, Happel J. Determination of the fragmentation pattern of HDO. *Spectroscopy Letters*, 15:65-71, 1982
 3. **Bekker A**, Knox D, Sund S. Prediction of solvent activities using the UNIFAC-FV model. *Journal of Solution Chemistry*, 16:635-639, 1987
 4. **Bekker A**, Ritter A, Duran W. Reduction of pressure in post-capillary venules induced by epifluorescent illumination of FITC-Dextran. *Microcirculation, Endothelium, Lymphatics*, 3:411-423, 1987
 5. Broyer E, **Bekker A**, Ritter A. Kinetics of the pyrolysis of chlorodifluoromethane. *Industrial Engineering Chemistry*, 27:208-211, 1988
 6. **Bekker A**, Dillon P, Paul J, Duran W. Dose-response relationship between platelets activating factor and permeability-surface area product of FITC-Dextran 150 in the hamster cheek pouch. *Microcirculation, Endothelium, Lymphatics*, 4:433-446, 1988

7. **Bekker A**, Ritter A, Duran W. Analysis of microvascular permeability to macromolecules by video-image digital processing. *Microvascular Research*, 38:200-216, 1989
8. Paul J, **Bekker A**, Duran W. Calcium entry blockade prevents leakage of macromolecules induced by ischemia-reperfusion in skeletal muscle. *Circulation Research*, 66:1636-1642, 1990
9. **Bekker A**, Von Hagen S, Yarmush J. A Macintosh HyperCard stack to simulate the pharmacokinetics of intravenous opioid infusions (NarSim). *Computer Applications in Biosciences*, 7:531-532, 1991
10. **Bekker A**, Baker K, Baker C, Young W. Anesthetic consideration for management of cerebrovascular aneurysm surgery. *American Journal of Anesthesiology*, 22:248-258, 1995
11. **Bekker A**, Wolk S, Turndorf H, Kristol, Ritter A. Computer simulation of cerebrovascular circulation: assessment of intracranial hemodynamics during induction of anesthesia. *Journal of Clinical Monitoring*, 12:433-444, 1996
12. **Bekker A**, Mistry A, Ritter A, Wolk S, Turndorf H. Computer simulation of intracranial pressure changes during induction of anesthesia: comparison of thiopental, propofol, and etomidate. *Journal of Neurosurgical Anesthesiology*, 11: 69-80, 1999
13. **Bekker A**, Berklayd P, Osborn I, Bloom M, Yarmush J, Turndorf H. Recovery of cognitive function after remifentanyl - N₂O anesthesia is faster than after isoflurane - N₂O - fentanyl combination in the elderly. *Anesthesia & Analgesia*, 91:117-22, 2000
14. **Bekker A**, Wolk S, Rim J, Turndorf H, Ritter A. Comparison of cardiotropic drug effects on hemodynamic and myocardial energetics in patients with heart failure. A computer simulation. *Journal of Medical Engineering & Technology*, 24: 87-94, 2000
15. **Bekker A**, Kaufman B, Samir H, Doyle W. The use of dexmedetomidine infusion for awake craniotomy. *Anesthesia & Analgesia*, 92:1251-3, 2001
16. Bloom M, Beric A, **Bekker A**. Dexmedetomidine infusion and somatosensory evoked potentials. *Journal of Neurosurgical Anesthesiology*, 13: 320-22, 2001
17. **Bekker A**, Cooper P, Frempong A, Errico T, Babu R, Leibovits A. Evaluation of preoperative administration of the COX-2 inhibitor rofecoxib for the treatment of postoperative pain after lumbar disk surgery. *Neurosurgery*, 50: 1053-57, 2002 (**This article was selected by the Dannemiller Memorial Educational Foundation to be published in the AnesthesiaFile – educational journal which select 30 outstanding articles from medical publications**)
18. **Bekker A**, Sorour K, Miller S. The use of cardioselective beta-blockers in a patient with idiopathic hypertrophic subaortic stenosis and chronic obstructive pulmonary disease. *Journal of Clinical Anesthesiology*, 14: 589-591, 2002
19. Ard J, Doyle W, **Bekker A**. Awake craniotomy with dexmedetomidine in pediatric patients. *Journal of Neurosurgical Anesthesiology*, 15: 263-6, 2003
20. **Bekker A**, Weeks E. Cognitive Function after Anaesthesia in the Elderly. *Bailliere's Best Practice & Research, Clinical Anesthesiology*, 17: 259-272, 2003
21. **Bekker A**, Basile J, Gold M, Riles T, Adelman M, Mathew J, Goldberg J. Dexmedetomidine for awake carotid endarterectomy: Efficacy, hemodynamic profile, and side effects. *Journal of Neurosurgical Anesthesiology*, 16: 126-35, 2004
22. Ard J, Doyle W, **Bekker A**. Awake craniotomy with dexmedetomidine. Technical note. *Surgical Neurology*, 63:114-7, 2005
23. Ard J, Frempong T, **Bekker A**. Anesthetic considerations in a patient with mucopolysaccharoidosis I (Hurler syndrome) undergoing extensive spinal surgery. *Journal of Clinical Anesthesiology*, 17: 624-6, 2005
24. Kim J, Sherman O, Cuff G, Leibovitz A, Wajda M, **Bekker A**. Double-masked prospective comparison of rofecoxib versus ketorolac for acute postoperative pain. *Journal of Clinical Anesthesiology*, 17: 439-43, 2005
25. **Bekker A**, Sturitis M. Use of dexmedetomidine for neurosurgical anesthesia. *Neurosurgery*, 57: (ONS Suppl 1) ONS-1-ONS-10, 2005

26. Kim J, Wajda M, Gus M, Axelrod D, Schlame M, Cuff G, **Bekker A**. A randomized prospective comparison of postoperative lavender oil aromatherapy versus control in decreasing pain after breast biopsy. *Journal of Pain*, 6:273-7, 2006
27. **Bekker A**, Shah R, Quartermain D, Li Y-S, Blanck T. Isoflurane preserves spatial working memory in adult mice following moderate hypoxia. *Anesthesia & Analgesia*, 102:1134-8, 2006
28. Marimoto M, Kim J, Popovic J, Jain S, **Bekker A**. Ultrasound-guided lumbar plexus block for open reduction and internal fixation of hip fracture. *Journal of Pain*, 6: 124-6, 2006
29. **Bekker A**, Gold M, Ahmed R, Kim J, Rockman C, Jacobovitz G, Riles T, Fisch G. Safety of dexmedetomidine as a primary sedative for awake carotid endarterectomy. *Anesthesia & Analgesia*, 103:955-9, 2006
30. **Bekker A**, Haile, Gingrich K, Wenning L, Gorney A, Quartermain D, Blanck T. Physostigmine reverses cognitive dysfunction caused by moderate hypoxia in adult mice. *Anesthesia & Analgesia*, 105:739-43, 2007 (*this article is accompanied by a supportive editorial*)
31. Kim JT, Ren C, Fielding G, Pitti A, Kasumi T, Wajda M, Lebovits A, **Bekker A**. Treatment with Lavender aromatherapy in Postanesthesia Care Unit reduces opioid requirements in morbidly obese patients undergoing laparoscopic adjustable gastric banding. *Obesity Surgery*, 17: 920-925, 2007
32. Huncke T, Chan J, Kim T, Doyle W, **Bekker A**. The use of continuous positive pressure during an awake craniotomy in a patient with obstructive sleep apnea. *Journal of Clinical Anesthesiology*, 20:277-9, 2008
33. **Bekker A**, Sturaitis M, Bloom M, Moric M, Golfinos J, Parker E, Babu R, Pitti A. The effect of dexmedetomidine on postoperative hemodynamics in patients undergoing craniotomy. *Anesthesia & Analgesia*, 107:1370-7 2008
34. Haile M, Limpson F, Quartermain D, Li Y-S, Gingrich K, Blanck T, **Bekker A**. Nimodipine prevents transient cognitive dysfunction after moderate hypoxia in adult mice. *Journal of Neurosurgical Anesthesiology*, 21:140-4, 2009
35. **Bekker A**, Haile M, Li Y-S, Galoyan S, Garcia E, Quartermain D, Kamer A, Blanck T. Nimodipine prevents memory impairment caused by nitroglycerine induced hypotension. *Anesthesia & Analgesia*, 109:1943-8, 2009
36. Candiotti K, **Bekker A**, Bokesch P, Wisemandle W, Borgese S. A Phase III, randomized, double-blind, placebo-controlled, multicenter study evaluating the safety and efficacy of dexmedetomidine used for sedation during monitored anesthesia care (MAC). *Anesthesia & Analgesia*, 110:47-56, 2010
37. **Bekker A**, Lee C, de Santi S, Pirraglia E, Zaslavsky A, Farber S, Haile M, de Leon M. Does mild cognitive impairment increase the risk of developing postoperative cognitive dysfunction. *American Journal of Surgery*, 199:782-8, 2010
38. Bergese S, Candiotti K, Zura A, Bokesch P, Wisemandle W, **Bekker A**. A Phase III, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study Evaluating the Safety and Efficacy of Dexmedetomidine Used for Sedation During Elective Awake Fiberoptic Intubation. *American Journal of Therapeutics*, 17:586-95, 2010
39. Huncke T, Adelman M, Maldonado T, Jakobovitz G, **Bekker A**. Prospective, Randomized, Placebo-Controlled Study: Dexmedetomidine Sedation in Vascular Procedures. *Vascular and Endovascular Surgery*, 44:257-261, 2010
40. **Bekker A**, Didehvar S, Kim S, Golfinos J, Parker E, Sapson A, Haile M, Kline R, Lee M. Efficacy of clevidipine in controlling perioperative hypertension in neurosurgical patients: Initial single-center experience. *Journal of Neurosurgical Anesthesiology*, 22:330-5, 2010
41. Haile M., Broderick P., Li Y-S, Quartermain D., Blanck T.J.J., **Bekker A**. Nimodipine Reverses the Elevation of Synaptic Striatal Dopamine and Serotonin During In Vivo Hypoxia. *The Open Neuroscience Journal*, 5:1-7, 2011
42. Yang G, Chang P, **Bekker A**, Blanck T, Gan Wen-Biao. Transient effects of anesthetics on dendritic spine dynamics in the living mouse cortex. *Anesthesiology* 115:718-26, 2011

43. Candiotti K, Gan, TJ, Young C, Lebowitz P, Kahn R, Sum Ping J, Littman J, **Bekker A.** A Randomized, Open-Label Study of the Safety and Tolerability of Fospropofol for Patients Requiring Intubation and Mechanical Ventilation in the ICU. *Anesthesia & Analgesia*, 113:550-6, 2011
44. Blitz J, Pachter L, Newman E, Haile M, Franco L, Kline R, **Bekker A.** A Randomized, Double Blind Study to Evaluate Efficacy of Palonosetron with Dexamethasone Versus Palonosetron Alone for Prevention of Post-Operative and Post-Discharge Nausea and Vomiting in Subjects Undergoing Laparoscopic Surgeries with High Emetogenic Risk. *American Journal of Therapeutics*, In Print, 2012
45. Zaslavsky A, Haile M, Kline R, Iospa A, Frempong-Boadu A, **Bekker A.** Rivastigmine in the treatment of postoperative delirium: A Pilot Clinical Study. *International Journal of Geriatric Psychiatry*, In Print, 2012
46. Haile M, Galoyan S, Quartermain D, Li Y-S, Blanck TJJ, Kline R, **Bekker A.** Nimodipine Induced Hypotension but not Nitroglycerin Induced Hypotension Preserves Long-Term Associative Memory in Adult Mice. *Anesthesia & Analgesia*, In print, 2012
47. Kamer A, Galoyan S, Haile M, Kline R, Boutajangout A, Yong-Sheng Li, **Bekker A.** Meloxicam improves object recognition memory and modulates glial activation after splenectomy: animal study. *European Journal of Anesthesiology*, Accepted for publication, 2012
48. Kline R, Pirraglia E, Cheng H, de Santi S, Li Y, Haile M, de Leon M, **Bekker A.** Effects of Surgery on Brain Atrophy In Cognitively Normal Elderly Subjects and Subjects Diagnosed with MCI. *Anesthesiology*, 116:603-12, 2012 (*this article is accompanied by a supportive editorial*)

B. Books, Monographs and Chapters None

C. Patents Held

1. Process for production of light hydrocarbons by treatment of heavy hydrocarbons with water. US Patent 4 446 012, 1984, Murty A, Patel K, **Bekker A.**
2. Production of light hydrocarbons by treatment of heavy hydrocarbons with water, US Patent 4 543 177, 1985, Murthy A, Patel K, **Bekker A.**
3. Process for production of hydrogenated light hydrocarbons by treatment of heavy hydrocarbons with water and carbon monoxide, US Patent 4 675 097, 1987, Patel K, Bekker A, Murthy A, Gefry F.
4. Method of compressively molding articles from resin coated filler materials, US Patent 4 709 839, 1987, Bellet R, Broyer E, **Bekker A**, Lace M.
5. Deposition of thin films using supercritical fluids, US Patent 4 737 384, 1988, Murthy A, **Bekker A**, Patel K.
6. Catalytic process for production of light hydrocarbons by treatment of heavy hydrocarbons with water, US Patent 4 743 357, 1988, Patel K, Murthy A, **Bekker A.**

D. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications

1. Kang C, Bajars L, Ozawa S, **Bekker A.** Two-stage coal liquefaction process. Catalysis Research Corp. Report for the Department of Energy 1981
2. **Bekker A.** Keywords definitions - physiology and pharmacology. *Anesthesia defined keywords 1998.* MedText Medical Publishing Co., Redondo Beach, CA
3. **Bekker A,** Turndorf H, Wolk S, Ritter A: Computer analysis of cerebrovascular hemodynamics during induction of anesthesia. In: L. Henson and A. Lee, eds. *Simulators in Anesthesiology Education.* New York: Plenum Publishing Corp., 121-122, 1998

4. **Bekker A.** Neurophysiology; Clinical Neuroanesthesia; Anesthesia for the patient with psychiatric disease. Big Cram before Exam. Anesthesia Board Essentials, MedText Medical Publishing Co., Redondo Beach, CA, 1999
5. **Bekker A,** O'Neill, Rambissoon G. Basic principles of total intravenous anesthesia. Current Reviews in Anesthesiology. Vol. 20, Lesson 20, 2000
6. **Bekker A.** Keywords definitions - physiology and pharmacology. Anesthesia defined keywords, MedText Medical Publishing Co., Redondo Beach, CA, 2001
7. **Bekker A,** Jordan V. Alpha-2 agonists in Neuroanesthesia. Seminars in Anesthesiology, Perioperative Medicine and Pain. Special Issue: The brain and anesthesia, Vol 23: 181-191, 2004
8. **Bekker A.** Gold M. Dexmedetomidine as primary sedative in CEA patients. Letter to the Editor. Journal of Neurosurgical Anesthesiology, 16:320-21, 2004
9. **Bekker A.** Neurodegenerative disorders: Surgical procedures and anesthetic implications. ASA Refresher Course Lectures, 217 (1-7), 2005
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12. **Bekker A.** Carotid Endarterectomy: Anesthetic choice and cerebral monitoring. ASA Refresher Course 2007
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19. **Bekker A.** Kim S. Postoperative Cognitive Dysfunction. Current Reviews in Anesthesiology, Vol 29, Lesson 13, 2009
20. Huncke T, **Bekker A.** Surgical and Anesthetic Considerations for Epilepsy Patients. Current Reviews in Anesthesiology, Vol 29, Lesson 18, 2009
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24. Norman A, **Bekker A.** Perioperative applications of hypothermia. Current Reviews in Clinical Anesthesia, Vol. 30, Lesson 19
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27. Caggianno T, **Bekker A.** Total Intravenous Anesthesia (TIVA) for Neurosurgical Procedures. Current Reviews in Clinical Anesthesia, Vol. 31, Lesson 22, 2011
28. Milgrim J, **Bekker A.** Anesthesia for Functional Neurosurgery. Current Reviews in Clinical Anesthesia, Vol. 32, Lesson 32, 2011
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E. Abstracts (2006-present)

1. **Bekker A**, Haile M, Quartermain D, Li Y-S, Blanck T. Isoflurane prevents cognitive impairment caused by moderate hypoxia in mice, IARS, Miami, FL, 2006; S184
2. **Bekker A**, Gold M, Ahmed R, Aronov D, Cuff G. The safety of dexmedetomidine as a primary sedative for awake carotid endarterectomy, IARS Miami, FL, 2006; S-191(*selected to be presented at the Kosaka symposium which selects best American and Japanese abstracts submitted to the annual meeting of the IARS*)
3. Morimoto M, Elzholz B, Jain T, Kim J, **Bekker A**. Ultrasound visualization of cervical plexus block, C4 single injection technique, IARS, Miami, FL, 2006, S-312
4. **Bekker A**, Haile M, Gorny A, Li Y-s, Quartermain D. Physostigmine reverses cognitive impairment caused by moderate hypoxia in rodents, SNACC, Chicago, IL, 2006 JNA:18:283
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6. Haile M, **Bekker A**, Quartermain D, Li Y-S, Blanck T. Physostigmine reverses cognitive dysfunction caused by moderate hypoxia in adult mice, ASA, Chicago, IL, 2006; A179
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8. Haile M, Wenning L, Li Y-S, Quartermain D, **Bekker A**. Nimodipine reverses cognitive impairment in adult mice after hypoxia. SNACC, San Francisco, CA, 2007 JNA:19:330
9. Haile M, Lemson F, Quartermain D, Blanck T, **Bekker A**. Nimodipine improves object recognition memory in mice after moderate hypoxia, ASA, San Francisco, CA, 2007, A2235
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12. Bergese S, Candiotti K, Zura A, Bokesch P, **Bekker A**. A Phase III, randomized, double-blind, placebo-controlled, multicenter study evaluating the safety and efficacy of dexmedetomidine for sedation during awake fiberoptic intubation: The multicenter trial, IARS, San Diego, CA, 2008; S-215
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14. Candiotti K, **Bekker A**, Borgese S, Feldman M, Bockesh P, A Phase III, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Dexmedetomidine for Sedation During Monitored Anesthesia Care. ASA, Orlando, FL, A479
15. Bloom M, Godina M, Giagardi M, **Bekker A**. BIS variability and depth of analgesia. ASA, Orlando, FL,2008, A794
16. Haile M., Broderick P.A., Li Y-S., Quartermain D., **Bekker A**. Nimodipine Reverses the Hypoxic Elevation of Dopamine and Serotonin in the Striatum of Adult Rats. ASA, Orlando, FL, 2008, A854
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18. Haile M, Limson F., Rocco M., L Y-S, Gingrich K., Quartermain D., Blanck T., **Bekker A**. Nitroglycerin Induced Hypotension Causes Delayed Transient Cognitive Dysfunction in Adult Mice. IARS, San Diego, CA, 2008; S-134

19. Haile M., Broderick P.A., Y. Li Y-S, Annabi S., **Bekker A.** Nimodipine Reverses the Hypoxic Elevation of Tryptophan and Serotonin in the Striatum of Adult Rats, IARS, San Francisco, CA, 2009, S-195
20. Haile M., Garcia E., Galoyan S., Quartermain D., **Bekker A.** Nitroglycerin Induced Hypotension Interferes with Long-term Memory Formation in Adult Mice, IARS, San Francisco, CA, 2009, S-200.
21. **Bekker A.**, Lee C., Pirraglia E., De Santi S., De Leon M. Mild Cognitive Impairment is a Risk Factor in development of Post-Operative Cognitive Dysfunction, IARS, San Francisco, CA, 2009, S-210
22. Haile M., Broderick P.A., Li Y-S., Quartermain D., **Bekker A.** Nimodipine Reverses the Hypoxic Elevation of Dopamine and Serotonin in the Striatum of Adult Rats. ASA, New Orleans, LA, 2009, A365
23. Haile M., Galoyan S., Garcia E., Kamer A., **Bekker A.** Magnesium Preserves Memory Consolidation During Nitroglycerin Induced Hypotension in Adult Mice. ASA, New Orleans, LA, 2009, A1478
24. Garcia E., Haile M., Forrester L., Kamer A., **Bekker A.** Meloxicam Prevents Transient Cognitive Dysfunction in Mice after Nitroglycerin Induced Hypotension. ASA, New Orleans, LA, 2009, A696
25. Nevelev D., Batchan M., Howell K., D'Urso J., Galoyan S., **Bekker A.** Isoflurane Interferes with the Consolidation of Long Term Associative Memory in Adult Mice in a Dose-Dependent Manner. Post Graduate Assembly in Anesthesiology (PGA), New York, NY, 2009 (*Chosen for Focus Session as one of top five scientific abstracts submitted in 2009*).
26. Howell K., Haile M., Garcia E., Galoyan S., Quartermain D., **Bekker A.** Minocycline Prevents the Impairment of Long-term Associative memory Retrieval Caused by Lipopolysaccharide Induced Inflammation in Mice, IARS, 2010, S-210
27. Garcia E., Haile M., D'Urso J., Quartermain D., Galoyan S., **Bekker A.** Time Course Expression of Plasma Cytokine Levels Following Acute Hypotension and Associated Cognitive Dysfunction in Mice, IARS, Honolulu, HI, 2010, S-432
28. Kim S, Didehvar S, Rambissoon G, Ard J, **Bekker A.** Efficacy of Clevidipine in Controlling Perioperative Hypertension in Neurosurgical Patients. ASA, San Diego, 2010: A844
29. Haile M., Howell K., Galoyan S., Quartermain D., **Bekker A.** Methylprednisolone Preserves Long-Term Memory Retrieval in Lipopolysaccharide Treated Mice. ASA, San Diego, 2010: A1042
30. Haile M., Galoyan S., Li Y-S, Quartermain D., **Bekker A.** Nimodipine Induced Hypotension but not Nitroglycerin Induced Hypotension Preserves Long-Term Associative Memory, ASA, San Diego, 2010, A1043
31. Candiotti K, Gan TJ, Young C, **Bekker A.**, Sum-Ping J, Kahn R, Littman J. Safety and Tolerability of Fospropofol for Patients Requiring Intubation and Mechanical Ventilation in the ICU: Randomized, Open-Label Study vs Propofol, Critical Care Congress of the Society for Critical Care Medicine, San Diego, Ca, January 2011
32. Zekan A., Haile M., Kline R., Li Y-S, **Bekker A.**, Wisniewski T. A11, an anti-platelet antibody, prevents delayed transient cognitive dysfunction caused by acute nitroglycerin induced hypotension in mice, IARS, Vancouver, Canada, 2011, S-277
33. Viola-Blitz J, Pachter L, Newman E, Franco L, Didehvar S, **Bekker A.** A Randomized, Double Blind Study to Evaluate Efficacy of Palonosetron with Dexamethasone Versus Palonosetron Alone for Prevention of Post-Operative Nausea and Vomiting in Subjects Undergoing Laparoscopic Surgeries with High Emetogenic Risk. International Anesthesia Research Society (IARS), Vancouver, Canada, 2011, S-382
34. Kline RP, Piraglia E, Cheng H, Li Y, Haile M, De Leon MJ, **Bekker A.** Effects of Surgery on Cortical Atrophy. Alzheimer's & Dementia, Paris, France, The Journal of the Alzheimer's Association, vol 7(4), 2011, S3, IC-01-05
35. Blitz J, Didehvar S, Haile M, **Bekker A.** A Randomized, Double Blind Study to Evaluate the Efficacy of Palonosetron with Dexamethasone Versus Palonosetron

- Alone for Prevention of Post-Operative Nausea and Vomiting in Subjects Undergoing Bariatric Surgery, ASA, Chicago IL, 2011, A838
36. Stolper T., Vincent N., Chan, J., **Bekker A.**, Haile M. Depressive behavior in adult mice after splenectomy is ameliorated by the COX-2 inhibitor meloxicam. American Society of Anesthesiologists (ASA), Chicago IL, 2011, A1672

F. Reports

PRESENTATIONS (2006-present):

- October 2006 Society for Neuroanesthesiology and Critical Care, Chicago II
Moderator: Poster session of Cerebral Protection
- October 2006 American Society of Anesthesiologists, Chicago, II
Moderator, Scientific Panel on “Anesthetic management of a patient with neurological disorders”; Oral poster sessions on Experimental Neurosciences and Monitoring of the CNS function.
Speaker, Anesthesia for Functional and Stereotactic Neurosurgery
- October 2006 Society for Neurosurgical Anesthesiology and Critical Care
Moderator, Breakfast Panel: Intracranial hypertension: Etiology, Diagnosis, Management.
- December 2006 Postgraduate Assembly in Anesthesiology, New York, NY
Moderator, Scientific Panel: Changing Practice in Neuroanesthesia
Speaker: Does perioperative care have a role in reducing cognitive dysfunction?
- December 2006 Postgraduate Assembly in Anesthesiology, New York, NY
Moderator, Focus Session: Craniotomy for Supratentorial Lesions
Speaker: Awake craniotomy: Rationale, Goals and Anesthetic Management
- October 2007 American Society of Anesthesiologists, San Francisco, CA
Refresher Course: Carotid Endarterectomy: Anesthetic Choice and Cerebral Monitoring
Moderator, Poster Discussion: Cerebral Monitoring
- December 2007 Postgraduate Assembly in Anesthesiology, New York NY
Speaker (Scientific Panel): Awake craniotomy in pediatric patient
Moderator: Perioperative uses of dexmedetomidine
Speaker (Focus Session): Intraoperative uses of dexmedetomidine
- October 2008 American Society of Anesthesiologists, Orlando, FL
Speaker, Dexmedetomidine in Neurosurgery: New drug or more of the same?
- October 2008 American Society of Anesthesiologists, Orlando, FL
Panelist, Clinical Forum in Neuroanesthesia
- October 2008 Precedex International Evening Seminar, Orlando, FL
Procedural sedation for non-intubated patients, MAC sedation by dexmedetomidine
- December 2008 Postgraduate Assembly in Anesthesiology, New York, NY
Speaker (Scientific Panel) Perioperative Brain Protection
- December 2008 Postgraduate Assembly in Anesthesiology, New York, NY
Speaker (Scientific Panel) Temperature Management in the Neurosurgical Patient: Is It Safe, Helpful, and Worth the Risks?
- December 2008 Postgraduate Assembly in Anesthesiology, New York, NY
Speaker (Focus Session) TIVA is Better than Inhalational Anesthesia for Neurosurgical Procedures
- March 2009 American Society of Dental Anesthesiologists, Annual Meeting, Moderator, Speaker, Scientific Panel: Perioperative Uses of Dexmedetomidine.
- December 2009 Postgraduate Assembly in Anesthesiology.
Speaker (Scientific Panel) Pharmacologic brain protection
- December 2009 Postgraduate Assembly in Anesthesiology, New York, NY.
Keynote Speaker, Dinner Symposium sponsored by Eisai Corp. Introduction to Lusedra
- September 2010 Eight Annual Neurocritical Care Society meeting

Dinner Symposium, Perioperative Uses of Dexmedetomidine
 December 2010 Postgraduate Assembly in Anesthesiology, New York, NY
 Speaker (Scientific Panel), Perioperative management of Blood Pressure, how high is high? How low is low?
 Lecturer, Focus Session, Awake Craniotomy
 October 2011 American Society of Anesthesiologists, Chicago, IL,
 Moderator, Scientific Panel on CNS Monitoring
 December 2011 Postgraduate Assembly of Anesthesiologists, New York, NY
 Speaker/Moderator (Scientific Panel), Anesthesia for Functional Neurosurgery
 Speaker (Focus Session), Anesthesia for Awake Craniotomy

VISITING PROFESORSHIPS/GRAND ROUNDS LECTURES

September 1988 New Jersey Institute of Technology, Newark, NJ
 June 2001 St. Barnabas Medical Center, Livingston, NJ
 July 2001 Stamford General Hospital, Stamford, CT
 January 2002 Walter Reed Medical Center, Washington, D.C.
 February 2002 Methodist Hospital and Medical Center, Brooklyn, NY
 March 2002 Buffalo General Hospital, Buffalo, NY
 June 2002 Englewood Hospital and Medical Center, Englewood, NJ
 August 2002 Staten Island University Hospital, Staten Island, NY
 April 2003 INOVA Fairfax Hospital, Falls Church, VA
 September 2003 Nassau County Medical Center, Uniondale, NY
 February 2004 University of Medicine and Dentistry – New Jersey Medical School, Newark, NJ
 January 2005 Thomas Jefferson Medical Center, Philadelphia, PA
 January 2005 Philadelphia Society of Anesthesiologists, Philadelphia, PA
 April 2006 Winthrop Hospital, Long Island, NY
 May 2006 Upstate Medical Center, Syracuse, NY
 May 2007 Ohio State University Medical Center, OH
 October 2007 Lenox Hill Hospital, NY, NY
 October 2007 NYSSA, Distract 1 Fall Meeting, Brooklyn, NY
 October 2007 New York Medical College, Valhalla, NY
 December 2007 St Lukes Roosevelt Hospital and Medical Center, New York, NY
 December 2007 North Carolina Society of Neurocritical Intensive Care, Durham, NC
 March 2008 The New York Hospital – Weill Cornell Medical Center, New York, NY
 April 2008 Maryland Society of Anesthesiologists, Baltimore, MD
 May 2008 Nassau/Suffolk Counties Society of Anesthesiologists, Great Neck, NY
 November 2008 University of Miami Miller School of Medicine, Miami, FL
 November 2008 University of Massachusetts Memorial Medical Center, Worcester, MA
 December 2008 Columbia-Presbyterian Medical Center, New York, NY
 February 2009 Methodist Hospital, Houston, TX
 April 2009 Geizinger Medical Center, Danville, PA
 August 2009 Overlook Hospital, Summit, NJ
 September 2009 St Vincent Hospital and Medical Center, New York, NY
 February 2010 Englewood Hospital and Medical Center, Englewood NJ
 September 2010 Ochsner Clinics, New Orleans, LA
 November 2010 UMDNJ-New Jersey Medical School, Newark, NJ
 January 2011 Montefiore Medical Center, New York, NY
 October 2011 New York State Society of Anesthesiologists, Regional Meeting, Buffalo, NY
 December 2011 New York Eye and Ear Infirmary, New York, NY