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## Curriculum vitae

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Dear colleagues,

I respectfully ask for your support to serve SNACC as a member of the Board of Directors. As an anesthesiologist, neurointensivist, and translational neuroscience researcher, I am passionate about all aspects of Neuroscience in Anesthesiology and Critical Care. I am a long standing active member of SNACC, having joined as a resident in 2002. I have served the society in various functions over the years, including abstract reviewer and poster moderator, course co-director for the ENLS workshops, and plenary speaker. I serve on several committees and am co-chair of the Perioperative Medicine and Critical Care Special Interest Group. If elected to the Board of Directors, I will work to further strengthen and highlight translational science advances at our Annual Meetings. I will nurture and expand collaboration and academic exchange with related societies and with our international sister societies. My goal is for SNACC to thrive as a young and diverse society that attracts the best talent and continues to expand the footprint of our specialty.

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### ***Education***

07/2006 – 12/2006 Fellowship Critical Care, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
08/2003 – 06/2006 Post-Doctoral Fellowship, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
12/2002 Dr. med, Johannes Gutenberg-University, Mainz, Germany  
07/1997 - 07/2003 Residency in Anesthesiology and Intensive Care Medicine, Department of Anesthesiology, Johannes Gutenberg-University Mainz, Germany  
10/1990 – 06/1997 Medical School, Albert-Ludwigs-University, Freiburg, Germany

### ***Certifications and Licenses***

12/31/2013 certification Neurocritical Care, United Council for Neurologic Subspecialties  
10/04/2012 initial certification, American Board of Anesthesiology  
03/15/2011 unlimited medical license, Board of Medical Examiners, Oregon  
06/20/2007 board certification for Anesthesiology & Intensive Care Medicine in Germany  
01/14/1999 unrestricted license to practice medicine in Germany

### ***Positions***

10/2016 – present Associate Professor, Department of Neurological Surgery (Joint Appointment), Oregon Health & Science University, Portland, Oregon, USA  
07/2014 – present Associate Professor, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
08/2007 – 06/2014 Assistant Professor, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
01/2007 - 07/2007 Visiting Assistant Professor, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
07/2006 - 12/2006 Instructor, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
08/2003 - 06/2006 Post-Doctoral Fellow, Department of Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, USA  
07/1997 - 07/2003 Resident, Department of Anesthesiology, Johannes Gutenberg-University Mainz, Germany

### ***Other Professional Experience***

07/2014 – present Medical Director Neurosciences Intensive Care Unit, Oregon Health & Science University, Portland, Oregon, USA  
01/2007 - present Attending Physician Neurosciences Intensive Care Unit, Oregon Health & Science University, Portland, Oregon, USA

### ***Honors and Awards***

2012 Junior Faculty Award, Association of University Anesthesiologists  
2011 Silver Hammer Teaching Award, Department of Neurology, Oregon Health & Science University  
2006 John D. Michenfelder New Investigator Award, Society for Neurosurgical Anesthesia and Critical Care

- 2005 Brain05 Bursary for Young Scientists, International Society for Cerebral Blood Flow and Metabolism
- 2003 First Place Resident Research Contest, 57th Postgraduate Assembly of the New York State Society of Anesthesiologists (PGA)
- 2003 Brain'03 & Brain PET'03 Bursary for Young Scientists, International Society for Cerebral Blood Flow and Metabolism
- 2002 Dr. med "magna cum laude" Johannes Gutenberg-University, Mainz, Germany

### ***Peer-Reviewed Publications***

1. Lele AV, Hoefnagel AL, Schloemerker N, Wyler DA, Chaikittisilpa N, Vavilala MS, Naik BI, Williams JH, Raghavan LV, **Koerner IP**; for the SNACC Task Force for Developing Guidelines for Perioperative Management of External Ventricular and Lumbar Drains: [Perioperative Management of Adult Patients with External Ventricular and Lumbar Drains: Guidelines from the Society for Neuroscience in Anesthesiology and Critical Care](#). Journal of Neurosurgical Anesthesiology, 2017 Feb 6 [Epub ahead of print]
2. Nelson JW, Zhang W, Alkayed NJ, **Koerner IP**: [Peroxisomal translocation of soluble epoxide hydrolase protects against ischemic stroke injury](#). Journal of Cerebral Blood Flow and Metabolism, 2015 Sep;35(9):1416-20, PMID: PMC4640333 [Available on 2016-09-01]
3. Hutchens MP, Fujiyoshi T, **Koerner IP**, Herson PS: [Extracranial hypothermia during cardiac arrest and cardiopulmonary resuscitation is neuroprotective in vivo](#). Therapeutic Hypothermia and Temperature Management, 2014 Jun;4(2):79-87, PMID: PMC4046354
4. Wang JM, Fujiyoshi T, Kosaka Y, Raybuck JD, Lattal KM, Ikeda M, Herson PS, **Koerner IP**: [Inhibition of Soluble Epoxide Hydrolase after Cardiac Arrest/Cardiopulmonary Resuscitation Induces a Neuroprotective Phenotype in Activated Microglia and Improves Neuronal Survival](#). Journal of Cerebral Blood Flow and Metabolism, 33:1574-81, 2013, PMID: PMC3790926
5. Fairbanks SL, Young JM, Nelson JW, Davis C, **Koerner IP**, Alkayed NJ: [Mechanism of the Sex Difference in Neuronal Ischemic Cell Death](#). Neuroscience 219:183-191; 2012
6. Sheldahl LC, Shapiro RA, Briant DN, **Koerner IP**, Dorsa DM: [Estrogen induces rapid translocation of ER \$\beta\$ , but not ER \$\alpha\$ , to the neuronal plasma membrane](#). Neuroscience 153:751-761; 2008
7. **Koerner IP**, Zhang W, Cheng J, Parker S, Hurn PD, Alkayed NJ: [Soluble epoxide hydrolase: regulation by estrogen and role in the inflammatory response to cerebral ischemia](#). Frontiers in Bioscience 13:2833-2841; 2008
8. **Koerner IP**, Jacks R, Grant DF, DeBarber AE, Koop D, Alkayed NJ: [Polymorphisms in the human soluble epoxide hydrolase gene EPHX2 linked to neuronal survival after ischemic injury](#). Journal of Neuroscience 27:4642-4649; 2007

9. Zhang W, **Koerner IP**, Noppens R, Graf M, Morriseau C, Hammock B, Falck J, Alkayed NJ: [Soluble epoxide hydrolase inhibition is protective against ischemic brain injury through blood flow-independent mechanism](#). Journal of Cerebral Blood Flow and Metabolism, 27:1931-1940; 2007
10. **Koerner IP**, Gattling M, Noppens RR, Kempfski O, Brambrink AM: [Induction of cerebral ischemic tolerance by erythromycin preconditioning re-programs the transcriptional response to ischemia and suppresses inflammation](#). Anesthesiology 106:538-47; 2007
11. Ardeshiri A, Kelley MH, **Koerner IP**, Hurn PD, Herson PS: [Mechanism of progesterone neuroprotection of rat cerebellar Purkinje cells following oxygen-glucose deprivation](#). European Journal of Neuroscience. 24:2567-74; 2006
12. Xu Y, Zhang W, Klaus J, Young J, **Koerner IP**, Sheldahl LC, Hurn PD, Martinez-Murillo F, Alkayed NJ: [Role of cocaine- and amphetamine-regulated transcript in estradiol-mediated neuroprotection](#). Proc Natl Acad Sci U S A. 103:14489-94; 2006
13. Noppens RR, Christ M, Brambrink AM, **Koerner IP**, Heimann A, Kempfski O: [An early bolus of hypertonic saline hydroxyethyl starch improves long-term outcome after global cerebral ischemia](#). Crit Care Med. 34:2194-200; 2006
14. Brambrink AM\*, **Koerner IP\***, Diehl K, Strobel G, Kempfski O: [Antibiotic erythromycin induces tolerance against transient global cerebral ischemia in rats \(pharmacological preconditioning\)](#). Anesthesiology 104:1208-1215; 2006 **\*equal contribution**
15. Brambrink, AM and **Koerner, IP**: [Prehospital advanced trauma life support: how should we manage the airway, and who should do it?](#) Crit Care. 8: 3–5, 2004
16. **Körner I**, Scherhag A, Preußner PR: [Analgo-sedation \(Monitored Anesthesia Care\) using propofol and piritramide for controlled cyclophotocoagulation of the eye](#). Anesthesiol Reanim 25:22-25, 2000
17. Brambrink AM, Schneider A, Noga H, Astheimer A, Götz B, **Körner I**, Heimann A, Welschhof M, Kempfski O: [Tolerance-inducing dose of 3-Nitropropionic acid modulates bcl-2 and bax balance in the rat brain: a potential mechanism of chemical preconditioning](#). J Cereb Blood Flow Metab 20:1425-36, 2000
18. **Körner I**, Weber-Nordt R, Pfaff P, Finke J: [Analysis of a regulatory element in the 5'-untranslated region of the bcl-2 gene](#). FEBS Letters 406:31-32, 1997

### ***Invited Reviews***

1. Weinstein JR, **Koerner IP**, Möller T. [Microglia in ischemic brain injury](#). Future Neurology, 5:227-246, 2010
2. Herson PS, **Koerner IP**, Hurn PD: [Sex, sex steroids, and brain injury](#). Semin Reprod Med, 27:229-39, 2009
3. Vagnerova K, **Koerner IP**, Hurn PD: [Gender and the injured brain](#). Anesthesia & Analgesia, 107:201-14, 2008
4. **Koerner IP** and Brambrink AM: [Brain protection by anesthetic agents](#). Current Opinion in Anesthesiology, 19:481-6, 2006

5. **Koerner IP** and Brambrink AM: [Fiberoptic techniques](#). Best Practice & Research Clinical Anesthesiology, 19:611-21. 2005

### **Book Chapters**

1. Norvelle H, **Koerner IP**: Two is not always better than one – warfarin, ciprofloxacin and metronidazole. In: Perioperative Drug-Drug Interactions, Marcucci C, Hutchens M, Sandson N, Kirsch J; Springer, Inc, 2016
2. Norvelle H, **Koerner IP**: St. John: not such a saint – St. John’s wort and cyclosporine. In: Perioperative Drug-Drug Interactions, Marcucci C, Hutchens M, Sandson N, Kirsch J; Springer, Inc, 2016
3. McCullough LD, **Koerner IP**, Hurn PD: [Chapter 8 Effects of gender and sex steroids on ischemic injury](#). In Handbook of Clinical Neurology, Vol. 92 (3rd edition). Fisher M (ed.) Elsevier Publishing, 2008
4. Brambrink AM, **Koerner IP**: Parkinson’s disease. In: Decision Making in Anesthesiology, 4th Edition, Bready L, Noorily S, Dillmann D (Ed.), Lippincott Williams & Wilkins, 2007
5. **Koerner IP** and Alkayed NJ: Ischemic preconditioning. In: Acute Stroke: Bench to Bedside, Bhardwaj A (ed), Marcel Dekker New York, 2006
6. **Koerner IP**, Murphy SJ, Hurn PD: Gender, Sex Steroids, and Cerebral Ischemic Pathobiology. In Acute Ischemic Injury and Repair in the Nervous System, Vol 23, Handbook of Neurochemistry and Molecular Neurobiology, 3e Chan P (ed). Kluwer Academic/Plenum Publishing, 2005
7. **Koerner IP** and Brambrink AM: Altered genomic response to ischemia: A means of ischemic tolerance induction in the brain? In: Yearbook of Intensive Care and Emergency Medicine 2004, Vincent J-L (ed), Springer-Verlag Berlin Heidelberg, 2004
8. Brambrink, AM and **Koerner, IP**: Induction of ischemic tolerance in the brain: a novel neuroprotective strategy? In Yearbook of Intensive Care and Emergency Medicine 2003, Vincent, J-L (ed), Springer-Verlag Berlin Heidelberg, 2003

### **Research Support**

MAIFOR 2003, Johannes Gutenberg-University Mainz, Germany, 01/2003-12/2003:

*“Pharmacological preconditioning using macrolids: Induction of cerebral ischemic tolerance in vivo and analysis of the differential gene- and protein expression”*

Medical Research Foundation of Oregon, 06/2008-05/2009: *“Role of Soluble Epoxide Hydrolase Polymorphisms in Stroke Injury and Brain Inflammation”*

Collins Medical Trust, 07/2010 – 06/2011: *Scavenging of Epoxyeicosatrienoic Acid – a Novel Mechanism of Microglia-Mediated Neuronal Death”*

NINDS K02 Independent Investigator Award 1K02NS067051, 12/2010 – 11/2014: *Microglial uptake and inactivation of epoxyeicosatrienoic acid in stroke injury*, PI Koerner

American Heart Association Grant-in-Aid 14GRNT20380839, 7/2014 – 6/2016: *“Mechanisms of microglia-mediated secondary brain injury after cardiac arrest”*, PI Koerner

Oregon Alzheimer Disease Center (ADC) Pilot Program GNEUR0840A9, 7/2015 – 6/2016:  
“Peroxiredoxins are novel biomarkers that may link A-beta and vascular dementia”, PI Koerner  
Pending:

NINDS R21: “Microglia Support Neuronal Regeneration after Cardiac Arrest”, PI Koerner

## ***Invited Presentations***

### **Extramural**

- 2018 “*The Dual-Edged Sword of Neuroinflammation in Injury and Recovery After Brain Ischemia*” Plenary Presentation within Symposium “*A Primer on Glial Cells for the Anesthesiologist: Functional Contribution to Stroke, Pain, Post-Operative Cognitive Dysfunction, and Alzheimer’s Disease*”. 2018 Annual Meeting of the International Anesthesia Research Society (IARS), April 30, 2018 Chicago, IL
- 2017 “*Difficult Ventilation and Bronchoscopy Workshop*” Workshop Director and presenter (presentation “*APRV and Prone Ventilation in Neurocritical Care*” and facilitation of hands-on bronchoscopy station). 15<sup>th</sup> Neurocritical Care Society Annual Meeting, October 10, 2017 Hawaii
- 2016 “*Subarachnoid Hemorrhage and Vasospasm*” Plenary Presentation within Session “*Clinical Curveballs in Neuroanesthesia*”. 44th Annual Meeting Society for Neuroscience in Anesthesiology and Critical Care (SNACC), October 21, 2016 Chicago, IL
- 2016 “*Emergency Neurological Life Support (ENLS) Workshop*” Course Director and Presenter (sub-topics “*Introduction to ENSL*”, “*Acute Ischemic Stroke*”, “*Traumatic Brain Injury*”, “*Meningitis/Encephalitis*”). 44th Annual Meeting Society for Neuroscience in Anesthesiology and Critical Care (SNACC), October 20, 2016 Chicago, IL
- 2016 “*APRV in Neurocritical Care*” Presentation and Hands-on Station within Workshop “*Difficult Airway and Ventilation Management*”. 14th Neurocritical Care Society Annual Meeting, September 16, 2016 National Harbor, MD
- 2016 Visiting Professor at University of Washington, Seattle, WA:  
Grand Rounds presentation Department of Neurology: “*Microglia and brain injury after cardiac arrest*”  
Resident Lecture Department of Neurology: “*Many Hs, many questions – subarachnoid hemorrhage and evidence-based medicine*”
- 2016 “*Emergency Neurological Life Support (ENLS) Workshop*” Course Director and Presenter (sub-topics “*Introduction to ENSL*”, “*Airway, Ventilation and Sedation*”, “*Elevated ICP and Herniation*”, “*Meningitis/Encephalitis*”, “*Intracerebral Hemorrhage*”, “*Subarachnoid Hemorrhage*”, “*Resuscitation following Cardiac Arrest*”, “*Traumatic Brain Injury*”) Eastern Oregon EMS Conference, February 26, 2016 Pendleton, OR

- 2016 *“Neuroprotection in the Neurocritical Care Unit: What is New?”* Symposium Presentation, 16th Annual Meeting of the Indian Society of Neuroanesthesiology and Critical Care, February 7, 2016 Bengaluru, India
- 2016 *“Aneurysmal Subarachnoid Hemorrhage and Evidence”* Symposium Presentation, 16th Annual Meeting of the Indian Society of Neuroanesthesiology and Critical Care, February 7, 2016 Bengaluru, India
- 2016 *“Emergency Neurological Life Support (ENLS) Workshop”* Presenter (sub-topics *“Airway, Ventilation and Sedation”*, *“Meningitis/Encephalitis”*, *“Subarachnoid Hemorrhage”*, *“Traumatic Brain Injury”*) Pre-Conference Course for the 16th Annual Meeting of the Indian Society of Neuroanesthesiology and Critical Care, February 4, 2016 Bengaluru, India
- 2015 *“Temporal Evolution of Microglial Function and Phenotype in Ischemic Injury”* Session Chair, 25th Biennial Meeting of the International Society of Neurochemistry, August 26, 2015 Cairns, Australia
- 2015 *“Microglia are activated to a neurotoxic phenotype and exacerbate delayed neuronal death after cardiac arrest”* Symposium Presentation, 25<sup>th</sup> Biennial Meeting of the International Society of Neurochemistry, August 26, 2015 Cairns, Australia
- 2014 *“Intraoperative Catastrophes”* Symposium Moderator, Society for Neuroscience in Anesthesiology and Critical Care (SNACC) Annual Meeting October 9, 2014 New Orleans, LA
- 2014 *“Emergency Neurological Life Support (ENLS) Workshop”* Moderator and Presenter (sub-topics *“Introduction”*, *“Acute Ischemic Stroke”*, *“Traumatic Brain Injury”*, *“Airway and Mechanical Ventilation”*, *“Meningitis/Encephalitis”*), Society for Neuroscience in Anesthesiology and Critical Care (SNACC) Annual Meeting October 9, 2014 New Orleans, LA
- 2014 Visiting Professor at Stanford University, Palo Alto, CA. Research Seminar presentation Department of Anesthesiology: *“Neuron-microglia communications in cerebral injury after cardiac arrest”*
- 2014 *“Postoperative Challenges in Neurocritical Care”* Session Moderator, Annual Meeting Neurocritical Care Society September 12, 2014 Seattle, WA
- 2013 *“Weathering the Storm: Brain Injury and the Autonomic Nervous System”* Member-Submitted Session; Session Moderator, Annual Meeting Neurocritical Care Society October 3, 2013 Philadelphia, PA
- 2013 *“Cardiomyopathy & Neurogenic Pulmonary Edema: Sympathetics on Overdrive?”* Presenter, within Member-Submitted Session *“Weathering the Storm: Brain Injury and the Autonomic Nervous System”* Annual Meeting Neurocritical Care Society October 3, 2013 Philadelphia, PA
- 2013 *“Doctor, Your PACU Patient just Blew a Pupil – Managing Perioperative Neurologic Emergencies”* Problem Based Learning Discussion. American Society of Anesthesiologists (ASA) Annual Meeting October 12-16, 2013 San Francisco, CA

- 2012 Visiting Professor at Medical College of Wisconsin, Milwaukee, WI.  
Grand Rounds presentation Department of Anesthesiology: *“But he only had a stroke – systemic complications of neurologic disease”*.
- 2012 *“Brain Code – Resuscitation of a Patient with Acutely Blown Pupils in the PACU”*  
Problem Based Learning Discussion. Society for Neuroscience in Anesthesiology and Critical Care (SNACC) Annual Meeting October 12, 2012, Washington, DC
- 2012 *“Epoxyeicosatrienoic acids (EETs) modulate neuroinflammation and protect the brain after ischemia.”* Presentation within Jordi Folch-Pi Symposium *“Altered Arachidonic Acid Metabolism in Ischemic Stroke: from Mechanisms to Future Therapies”* at the American Society for Neurochemistry Annual Meeting 2012 Baltimore, MD
- 2011 *“Early Decompressive Hemicraniectomy in Malignant Ischemic Stroke”* Presentation at the 2nd Neurocritical Care Conference, Portland, OR 06/11/2011
- 2010 *“Hemodynamic Monitoring in the Neurosciences Intensive Care Unit”* Presentation at the 1st Neurocritical Care Conference Portland, OR 06/05/2010
- 2008 Visiting Professor at Massachusetts General Hospital, Boston, Massachusetts.  
Grand Rounds presentation Department of Anesthesiology and Critical Care: *“Towards Individualized Treatment: The Role of Soluble Epoxide Hydrolase in Ischemic Neuronal Injury”*

### **Peer Review**

#### **Journals**

- 2015 – present Journal of Neurochemistry
- 2014 – present Journal of Neuroimmunology
- 2013 – present European Journal of Neuroscience
- 2013 – present Circulation
- 2012 – present Experimental Neurology
- 2012 – present Journal of Neuroinflammation
- 2012 – present Journal of Neurosurgical Anesthesiology
- 2011 – present Journal of Cerebral Blood Flow and Metabolism
- 2011 – present Brain Research
- 2010 – present Neuroscience
- 2010 – present Acta Physiologica
- 2008 - present Brain Injury
- 2007 - present Anesthesia & Analgesia
- 2003 - present STROKE

#### **Funding Agencies**



2016 - present	NIH Special Emphasis Panel Neurological Sciences and Disorders K (NSD-K) ad-hoc reviewer
2015 – 2016	American Heart Association, Brain 4 Study Section, ad hoc reviewer
2008 - 2011	Center for Gender Based Medicine, Oregon Health & Science University
2013 – 2016	American Heart Association, Brain 3 Study Section
2013 – present	The Giving Circle, Center for Women’s Health, Oregon Health & Science University
2009 – 2010	The Wellcome Trust, Great Britain

### ***Memberships in Professional Societies***

2015 – present	Association of University Anesthesiologists (elected)
2014 – present	International Society for Neurochemistry
2011 – present	American Society for Neurochemistry
2008 – present	Neurocritical Care Society
2005 - present	American Heart Association
2003 - present	International Society for Cerebral Blood Flow and Metabolism
2002 - present	International Anesthesia Research Society (IARS)
2002 - present	Society of Neurosurgical Anesthesia and Critical Care (SNACC)
2002 - present	German Society for Anesthesiology and Critical Care Medicine (DGAI)

### ***Committees:***

#### **International/National**

2018 – present	Association of University Anesthesiologists (AUA) Scientific Advisory Board Chair
2017 – present	SNACC (Society for Neuroscience in Anesthesiology and Critical Care) Clinical Affairs Committee member
2016 – present	SNACC (Society for Neuroscience in Anesthesiology and Critical Care) Scientific Affairs Committee member
2016 – present	SNACC (Society for Neuroscience in Anesthesiology and Critical Care) Research Committee member
2015 - 2017	Neurocritical Care Society Nominating Committee member
2015	ASA (American Society of Anesthesiologists) Abstract Review Subcommittee on Experimental Neurosciences

- 2013 – present SNACC (Society for Neuroscience in Anesthesiology and Critical Care)  
Special Interest Group Neurocritical Care Co-Chair
- 2007 – 2009 SNACC (Society for Neuroscience in Anesthesiology and Critical Care)  
Scientific Committee member

**Institutional**

- 2018 Schwartz Rounds Committee (strengthening caregiver-patient relationships)
- 2017 – 2018 General Inpatient Hospice Task Force
- 2016 – present Faculty Affairs Committee
- 2016 Caring Wisely Task Force
- 2015 Patients with Catastrophic Neurologic Events Task Force
- 2015 – present Co-Chair Neurosciences Clinical Operations Committee
- 2012 – present Research Committee, School of Medicine
- 2011 – 2017 Women in Academic Medicine Committee, School of Medicine
- 2010 – 2014 NSICU infection control committee
- 2009 - 2010 ICU Best Practice committee

***Other Service for Scientific Community***

- 2016 – present mentor for junior scientists for International Society for Cerebral Blood Flow and Metabolism
- 2016 – present mentor for junior scientist at Annual Meeting for Association of University Anesthesiologists