

**Angélique Bordey**  
*Curriculum Vitae*

**Personal Data**

Business Address: Department of Neurosurgery  
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Birthdate: March 16, 1968

Email Address: [angelique.bordey@yale.edu](mailto:angelique.bordey@yale.edu)

**Professional Experiences**

1991 Chemical Engineer, Gatefossé, France

1995-2000 Postdoctoral fellowship, University of Alabama at Birmingham, Department of Neurobiology.

2000-2006 Assistant Professor, Department of Neurosurgery, Yale University School of Medicine

2002-2006 Assistant Professor, Department of Cellular and Molecular Physiology, Yale University School Medicine

2006-present Associate Professor, Department of Neurosurgery and Cellular & Molecular Physiology, Yale University School of Medicine

**Education**

1992-1995 Ph.D. University Louis Pasteur (ULP). Strasbourg, France.  
Major : Neurosciences, Advisor: Professor Paul Feltz

1991-1992 M.S. University Louis Pasteur (ULP). Strasbourg, France.  
Major: Neurophysiology and Neurobiology of Endocrine Systems.

1988-1991 M.S. "Ecole Supérieure de Chimie Industrielle de Lyon". Member of the National Superior School of Engineering. France, Major: Chemistry

1986-1988 B.S. Blaise Pascal College, France. Major: Mathematics and Physics

**Grant, Award and fellowship**

2007-2011 NIH/NIDCD R01 (Bordey), "Glial cell function on SVZ neurogenesis".

2006-2010 NIH/NIDCD R01 (Greer), "Neuron-glia interactions"

2005-2009 NIH/NINDS R01 (Bordey), "GABA signaling in the postnatal subventricular zone".

2004-2005 Pilot Research Award, National Multiple Sclerosis Society, "Ion channels and GABA receptors in glial progenitors of the subventricular zone".

2003 Young Investigator Travel Award to the 2003 American Epilepsy Society Meeting

12/02-11/07 NIH/NINDS RO1 (Bordey), "Astrocyte regulation of GABA transmission at neonatal synapses".

2002 - 2004 NIH/NINDS R21 (Bordey). "GABA action on subventricular zone progenitor cells".

2002 - 2003 Epilepsy Foundation Junior Faculty Research Award: "Reversible glycine transport in hippocampal astrocytes".

2000 - 2001 Junior Investigator Award, Amyotrophic Lateral Sclerosis Association, "Receptor-tyrosine kinase modulation of astrocytic glutamate transports".

- 1992 - 1995 Ph.D. Studentship from the Research Department of the French Defense Ministry.  
 1991 - 1992 Training Grant Award from the Ministry of Education.  
 1991 Gatefossé S.A. Chemical and Pharmaceutical company fellowship for biochemical Research.

### Teaching and Services

- 2007 Ad Hoc member for Molecular, Cellular and Developmental Neurosciences  
 2007- Ad Hoc member for Clinical Neuroplasticity and Neurotransmitters Study Section (CNNT) study section.  
 2006-present Member of the Executive Editorial board of Neuropharmacology  
 2006 Scientific advisor for the production of a video of the StemConn7 symposium and introducing stem cells to the general public.  
 2006-2007 Co-organizer of a symposium on Stem Cell (StemConn7) held in Connecticut in March 07.  
 2006 Lecture Leader in one of the INP course Neuroscience Principles, October.  
 2006 Organizer of the Yale-UConn stem cell retreat March 8<sup>th</sup> 06  
 2006-present Co-organizer (with Eleni Markekis) of a graduate course entitled "Stem and progenitor cells in the adult nervous system" (first semester, 11 weeks,).  
 2006-present Interviewer for the neurosurgery residency program  
 2006 Guest discussant at a graduate Ethics class on stem cells, March  
 2006-present Resident Lecture 2hr/year.  
 2006-present Member of the Stem cell program Center Steering committee  
 2005 Peer review member for the The Philip Morris External Research Program.  
 2005 Ad Hoc member for Neurogenesis and Cell Fate (NCR) study section.  
 2005-present Interview of Residents for the Neurosurgery Program  
 2005-present Act as a representative of the INP to replace Dr. Greer at Student qualifying exams.  
 2004 Teacher participating in "current perspectives in physiology" course (CMP 520).  
 2004 INP graduate teaching committee.  
 2004 Guest discussant at a seminar for Neuroscience Research Training in Psychiatry residents.  
 2003-present Lecture in the INP course on experimental methods in neuroscience.  
 2003-2004 Faculty seminar leader for "Perspectives on Science" seminar series, Yale College  
 2002-present Member of the Committee for Admissions to the School of Medicine.  
 2003 & 2005 Ad Hoc member for Neurotransmitter Transporters, receptors and Channels (NTRC) study sections.  
 2003 Brown-Cox ad-hoc committee member  
 2002-present Biomedical Science Training and Enrichment Program (Biostep) mentor.  
 2001 Organization of the Neuroscience Retreat  
 2001 One lecture Leader in Neuroscience Principles. "Astrocyte regulation of synaptic function".  
 2001-present Leader in Physiology Case Conferences  
 2000-present Reviewer of about 30 manuscripts per year for the following journals: Journal of Neuroscience, Glia, Development, European Journal of Neuroscience, Journal of Physiology, Pfluger Archives- European Journal of Physiology, Cerebral Cortex, Journal of Neuroscience Research, Stem Cells, Journal of comparative Neurology, Neuroscience, Biologica, Synapse.  
 1996-1997 Laboratory Methods in Neurobiology- Electrophysiology and optical recordings (10 hrs). University of Alabama at Birmingham.  
 1993 Theoretical and technical approach to electrophysiological recordings *in situ*. University

Louis Pasteur, France.

## **Student and Fellow Supervision, and Mentoring**

### Postdoctoral Fellow Project Supervision

Latifa Barakat, 2000-2002; Hao Huang, 2002-2004; Anna Bolteus, 2003-2005; Xiuxin Liu, 2003-2005, Qin Wang, 2003-2004; Jean-Claude Platel, 2005-present; Oliver Henschel, 2006-present.

### Graduate Students

Kathleen E. Egan, Neuroscience 2004-present; Benjamin Lacar, Neuroscience 2005-present; Manavendra Pathania, MCDG 2006-present; Stephanie Young, INP 2006-present; Kyle Zander, Physiology 2007-present.

### Post-baccalaureate student (Yale PREP)

Bianca Soriano, 2006-2007

### Graduate Student Laboratory Rotations

Rebecca Steiner, Neuroscience 2000; Leigh-Ann Higa, Pharmacology 2001; Dilja Krueger, Neuroscience 2001; Kathleen E. Egan and John Strumbos, Neuroscience 2004; Andrew Bellemer and Benjamin Lacar, Neuroscience 2005; Matthew Fleming, Physiology 2006, Stephanie Young, Neuroscience 2005; Manavendra Pathania, MCDG 2005; Christian Colli, Neuroscience 2007; Kyle Zander, Physiology 2007; Nao Gamo, INP 2007.

### Undergraduate Students

Doris Wang, 2001-2004; Saroj Fleming, 2003; David Tian 2004-2007; Frank Huang 2004-2005, Sabrina Poon, 2005-present; Angelique Pillar, 2005-2007; Valerie Gordon, 2007-present.

### Medical students

Daniel Gipson, 2004; Sheila Kumar, 2004; Daniel Balkin, 2005-present.

### Qualifying exams

Becky Meier, 2001; Josh Breunig, 2003; Adam Frost, 2003; Wenya Linda Bi, 2003; Kathy Egan, 2004; Ken Kwan, 2005; Benjamin Lacar, 2006; Danielle Guez, 2006; Stephanie Young, 2007; Jade Li, 2007. As an INP representative: Julie Golomb, 2005.

### Residents

Jonathan Genzen, Laboratory Medicine, 2006-present.

### PhD committee member

Darlene Gabeau, MD-PhD 2003; Catherine Lo, Bioengineering; Lane Bekar, Depart. Physiology, University of Saskatchewan 2005; Mary Whitman, MD-PhD; Wenya Linda Bi, MD-PhD.

### Mentor on grants:

Xia-Bin Gao, 2001 K01; Tore Eid, 2006 K08; Jonathan Genzen, 2006 K08, Paul (Jianjun) Tian, Welcome Burroughs foundation

## **Memberships in professional societies**

American Association for the Advancement of Science. Society for Neuroscience. New York Academy of Sciences. Société des Neurosciences, International Society for Stem cell Research.

## **Publications**

*Refereed Papers and reviews*

1. Oury-Donat F, Lefevre IA, Thurneyssen O, Gauthier T, Bordey A, Feltz P, Le Fur G, and Soubrié P (1993). SR 140333, a novel, selective and potent antagonist of the NK1 tachykinin receptor : characterization on the U373MG cell line. **Journal of Neurochemistry** **62** : 1399-1407.
2. Bordey A, Feltz P, and Trouslard J (1994). Mobilization of intracellular calcium by substance P in a human astrocytoma cell line (U373 MG). **Glia** **11**: 277-283.
3. Bordey A, Feltz P, and Trouslard J (1995). Kinetics of A-currents in sympathetic preganglionic neurones and glial cells. **Neuroreport** **7**: 37-40.
4. Bordey A, Feltz P, and Trouslard J (1996). Patch-clamp characterization of nicotinic receptors in a subpopulation of lamina X neurones in spinal cord slices. **Journal of Physiology** **490.3** : 673-678.
5. Bordey A, Feltz P, and Trouslard J (1996). Nicotinic actions on neurones of the central autonomic area in rat spinal cord slices. **Journal of Physiology** **497.1**: 175-188.
6. Bordey A and Sontheimer H (1997). Postnatal development of ionic currents in rat hippocampal astrocytes *in situ*. **Journal of Neurophysiology** **78**: 461-477.
7. Krupp J, Bordey A, and Feltz P (1997). Electrophysiological evidence for multiple glycinergic inputs to neonatal rat sympathetic preganglionic neurons *in vitro*. **European Journal of Neuroscience** **9**: 1711-1719.
8. Ullrich N, Bordey A, Gillepsie GY, and Sontheimer H (1997). Expression of voltage-activated chloride currents in acute slices of human gliomas. **Neuroscience** **8**: 1161-1173.
9. Bordey A and Sontheimer H (1998). Electrophysiological properties of human astrocytic tumor *in situ*. The enigma of the spiking astrocytes. **Journal of Neurophysiology** **79**: 2782-2793.
10. Bordey A and Sontheimer H (1998). Properties of human glial cells associated with epileptic seizure foci. **Epilepsy Research** **32**: 285-302.
11. Bordey A and Sontheimer H (1998). Passive glial cells: fact or artifact? **Journal of Membrane Biology** **166**: 213-222.
12. Bordey A and Sontheimer H (1999). Differential inhibition of glial K<sup>+</sup> currents by 4-AP. **Journal of Neurophysiology** **82**: 3476-3487.
13. Bordey A and Sontheimer H (2000). Ion channels in astrocytes *in situ*: a comparison of different CNS regions. **Glia** **30**: 27-38.
14. Bordey A, Sontheimer H and Trouslard J. Muscarinic activation of BK channels induces membrane oscillations in glioma cells and leads to inhibition of cell migration (2000). **Journal of Membrane Biology** **176**:31-40.
15. Bordey A, Hablitz JJ and Sontheimer H. Reactive astrocytes forming endfeet on blood vessels show enhanced inwardly rectifying K<sup>+</sup> currents *in situ* (2000). **Neuroreport**. **11**: 3151-5.
16. Bordey A, Lyons S, Hablitz J and Sontheimer H. Electrophysiological characteristics of reactive astrocytes in experimental cortical dysplasia. (2001) **Journal of Neurophysiology** **85**: 1719-31.
17. Barakat L. and Bordey A (2002). Carrier-mediated uptake and release of taurine from Bergmann glia in rat cerebellar slices. **Journal of Physiology** **541.3**:753-7.
18. Barakat L and Bordey A (2002). GAT-1 and reversible GABA transport in Bergmann glia *in situ*. **Journal of Neurophysiology** **88**:1407-19.
19. Gipson KE and Bordey A (2002). Analysis of the current profile of mature rat oligodendrocytes *in situ*. **Journal of Membrane Biology** **2189**:201-212.
20. Bordey A, Wang D, and Spencer D.D. (2002) Reduction of glutamate transporter function in dentate gyrus glial cells but not in CA1 glial cells from humans with epilepsy and temporal lobe sclerosis. **Epilepsia** **43**, Suppl.7: 266.
21. Bordey A and Spencer DD (2002) Significant electrophysiological alterations in dentate gyrus glia but not in CA1 glia from humans with epilepsy with temporal lobe sclerosis. **Epilepsia**, **43**, Suppl.7:264.

22. Bordey A and Sontheimer H (2003). Modulation of glutamatergic transmission by Bergmann glial cells in rat cerebellum *in situ*. **Journal of Neurophysiology** 89:979-88.
23. Wang DD, Krueger DD and Bordey A (2003) GABA depolarizes postnatal neuronal progenitors of the subventricular zone via GABA<sub>A</sub> receptor activation. **Journal of Physiology**. 550:785-800.  
See comments in **Perspectives**. GABA exciting again in its own right. Vittorio Gallo and Tarik Haydar (2003). *J. Physiol.*
24. Wang DD, Krueger DD and Bordey A (2003) Biophysical properties and ionic signature of neuronal progenitors of the postnatal subventricular zone *in situ*. **Journal of Neurophysiology** 90: 2291-2302.
25. Bordey A and Spencer DD (2003). Chemokine modulation of large conductance Ca<sup>2+</sup>-sensitive K<sup>+</sup> currents in microglia from human hippocampi. **European Journal of Neuroscience**. 18: 2893-2898.
26. Huang H, and Bordey A (2004) Glial glutamate transporters limit spillover activation of presynaptic NMDA receptors and influence synaptic inhibition of Purkinje neurons. **Journal of Neuroscience**. 24: 5659-5669
27. Bordey A and Spencer DD (2004) Distinct electrophysiological alterations in dentate gyrus versus CA1 glial cells from epileptic humans with temporal lobe sclerosis. **Epilepsy Research**, 59:107-122.
28. Bolteus A and Bordey A (2004) GABA release and uptake orchestrate neuronal precursor migration in the postnatal subventricular zone. **Journal of Neuroscience**. 24: 7623-7631.
29. Huang H, Barakat L, Wang DD and Bordey A (2004) Bergmann glial GlyT-1 mediates glycine uptake and release in mouse cerebellar slices. **Journal of Physiology**. 560:721-36.
30. Bolteus AJ, Garganta C, Bordey A (2005) Assays for measuring extracellular GABA levels and cell migration rate in acute slices. **Brain Research Protocols**. 14:126-134.
31. Bordey A (2005) The postnatal subventricular zone: a source of new cells in this old brain. **Nepal Journal of Neuroscience** 2:18-29.
32. Liu X, Wang Q, Haydar TF, and Bordey A. (2005) Nonsynaptic GABAergic signaling in the postnatal subventricular zone controls GFAP-expressing cell proliferation. **Nature Neuroscience** 8:1179-1187.
33. Bordey A. (2006) Adult neurogenesis: Basic concepts of signaling. Invited review for **Cell Cycle**. 5: 722-728.
34. Liu X, Bolteus AJ, and Bordey A. (2006) GFAP-expressing progenitors in postnatal subventricular zone display a unique glial phenotype intermediate between radial glia and astrocytes. **Glia**. 54:394-410.
35. Bordey A (2007). Enigmatic GABAergic networks in adult neurogenic regions. **Brain Research Review**. 53:124-134.
36. Platel JC and Bordey A. Embryonic and postnatal signaling between glia and their progeny. Invited review/article. **Journal of Molecular Histology**. In press.
37. Henschel O, Platel JC and Bordey A. Ion channels in early development and anaesthesia Invited Review. **CNS and Neurological Disorders - Drug Targets**. In preparation.

### **Book Chapters**

1. Bordey A and Sontheimer H. Astrocytic changes associated with epileptic seizures. *In Neuroglia in the Aging Brain*. J.S. de Vellis, Humana Press, Inc. Totowa, NJ. 2001.
2. Liu X, Bolteus A. and Bordey A. Nonsynaptic GABAergic communication and postnatal neurogenesis. *In Cell cycle in the Central Nervous System*. D. Janigro, The Humana Press, Inc Totowa, NJ 2005.
3. Wang DD and Bordey A. Resident and newly-born astrocyte contribution to neuronal excitation. *In Encyclopedia of Basic Epilepsy Research*. P. Schwartzkroin. Elsevier. In preparation.

4. Platel JC and Bordey A. GABA and glutamate signaling in the neurogenic forebrain. *In* Postnatal and adult neurogenesis in mammals. L. Bonfanti. Research Signpost. In preparation.
5. Genzen J and Bordey A. Ependymal Cells and the Neurogenic Niche. *In* Postnatal and adult neurogenesis in mammals. L. Bonfanti. Research Signpost. In preparation
6. Platel JC and Bordey A. Nonsynaptic scaling of postnatal neurogenesis. *In* Neurogenesis in the Adult Brain. A. Alvarez-Buylla, K. Sawamoto, J.M. Parent and T. Seki. Springer-Verlag. In preparation. 2008.

### Abstracts

1. Arpin-Bott MP, Bordey A, Cremel G, Bott T, and Imler M. Beziehung zwischen tumor-nekrose-factor, serum-lipoprotein und kleinzelligem bronchialkarzinom. **Der deutschen Gesellschaft für innere medizin**, Wiesbaden (1993).
2. Trouslard J, Bordey A and Feltz P. Régulation du calcium intracellulaire et de l'excitabilité membranaire par l'acétylcholine dans la lignée astrocytaire U373 d'origine humaine. **4<sup>ème</sup> colloque "Canaux ioniques"**. Carry le Rouet (1993).
3. Lefevre IA, Bordey A, Feltz P, Le Fur G and Soubrié P. Effects of the novel non-peptide NK1 tachykinin receptor antagonist, SR140333, on ionic movements induced by an NK1 agonist in human astrocytoma cells. **4<sup>ème</sup> colloque "Canaux ioniques"**. Carry le Rouet, (1993).
4. Trouslard J, Bordey A, and Feltz P. Regulation of intracellular calcium by muscarinic agonists in human astrocytoma cells. **Ionic movement in cells : Edouard Coraboeuf Jubilee, France.** Abstract *O24S4* (1993).
5. Lefevre IA, Bordey A, Feltz P, Le Fur G and Soubrié P. Effects of the novel non-peptide NK1 tachykinin receptor antagonist, SR140333, on ionic movements induced by an NK1 agonist in human astrocytoma cells. **Ionic movement in cells : Edouard Coraboeuf Jubilee, France.** Abstract *P62S4* (1993).
6. Lefevre IA, Oury-Donat F, Bordey A, Thurneyssen O, Emonds-Alt X, Feltz P, Le Fur G, and Soubrié P. Effects of a novel non-peptide NK1 tachykinin receptor antagonist, SR140333, on the U373MG cell line. **Society for Neuroscience Abstracts 19** : 722 (1993).
7. Bordey A, Krupp J and Feltz P. Pre- and postsynaptic effects of nicotinic receptor activation on rat preganglionic sympathetic neurons. **17<sup>th</sup> European Neuroscience Meeting** , Vienna (1994).
8. Bordey A, Trouslard J, and Feltz P. Electrophysiological evidence for pre- and postsynaptic nicotinic receptors in the rat intermediolateral cell nucleus. **Conférence Philippe Laudat, les récepteurs nicotiques neuronaux: diversité, fonction et pathologie**, Strasbourg, France (1994).
9. Bordey A, Trouslard J and Feltz P. Actions of nicotinic agonists on neonate rat sympathetic preganglionic neurons *in vitro*. **International symposium. The Cholinergic Synapse**, Baltimore, MD. Abstract *P8.18*. (1994).
10. Bordey A, Gandhour G and Feltz P. Electrophysiological evidence for pre- and postsynaptic nicotinic receptors in the rat Intermediolateral cell column. **Society for Neuroscience Abstract 20** : 1139(1994).
11. Dominguez-Perrot C, Bordey A, and Feltz P. Nicotinic receptors activation on central autonomic preganglionic neurones in rat spinal cord slices. **Society for Neuroscience Abstract 21** : 1338 (1995).
12. Bordey A, Ullrich N and Sontheimer H. Electrophysiological characterization of astrocytes and astrocytoma cells in slices from human biopsies and experimental intracranial brain tumors. **Society for Neuroscience Abstract 22** : 1498 (1996).
13. Bordey A, Ullrich N, Sontheimer H. Profound differences in the electrophysiological properties in normal, epileptic and tumor tissues. **Winter Conference on Brain Research 18** (1997).
14. Sontheimer H and Bordey A. Properties of glial cells associated with epileptic seizure foci. **WONOEP IV, Ireland** (1997).

15. Bordey A and Sontheimer H. Electrophysiological properties of human gliomas *in situ*: the enigma of the spiking astrocyte. **Society for Neuroscience Abstract** 23 : 1463 (1997).
16. Oh Y, Bordey A, Lee YJ, and Sontheimer H. Single cell RT-PCR analysis of the Na<sup>+</sup> channel alpha subunit mRNAs in cultured rat spinal cord neurons. **Society for Neuroscience Abstract** 23 : 909 (1997).
17. Sontheimer H, Bordey A, and Nee MacFarlane S. The role of ion channels in the development of astrocytes. **International Society for Developmental Neuroscience**, Vancouver (1998).
18. Bordey A and Sontheimer H. Glial spikes that are differentially modulated by 4-aminopyridine and Ba<sup>2+</sup>. **Society for Neuroscience Abstract** 24 (1998).
19. Sontheimer H and Bordey A. Ion channels in astrocytes *in situ*: comparison of different CNS regions. **Society for Neuroscience Abstract** 25 (1999).
20. Bordey A, Hablitz JJ and Sontheimer H. Electrophysiological properties of reactive astrocytes associated with cortical freeze lesions. **Society for Neuroscience Abstract** 25 (1999).
21. Bordey A and Sontheimer H. Glial modulation of glutamatergic neurotransmission demonstrated by paired recordings in cerebellar slices. **Society for Neuroscience Abstract** 26 (2000).
22. Gipson KE and Bordey A. Ion channels in mature oligodendrocytes in various CNS regions: presence of Ba<sup>2+</sup>- and TEA-sensitive K<sup>+</sup> currents *in situ*. **Society for Neuroscience Abstract** 26 (2000).
23. Barakat L and Bordey A. Pharmacologically distinct and reversible GABA transporters in Bergmann glia *in situ*. **Society for Neuroscience Abstract** 27 (2001).
24. Bordey A and Barakat L. Taurine activates taurine transporters and GABA receptors in Bergmann glia *in situ*. **Society for Neuroscience Abstract** 27 (2001).
25. Wang DD, Krueger D, and Bordey A. Neuronal and presumed glial progenitors have distinct ionic signatures in the postnatal subventricular zone. **Society for Neuroscience Abstract** 32 (2002).
26. Krueger D, Wang DD, and Bordey A. Neuronal and presumed glial progenitors express GABA<sub>A</sub> receptors in the postnatal subventricular zone. **Society for Neuroscience Abstract** (2002).
27. Bordey A and Spencer DD. Reduction of glutamate transporter function in dentate gyrus glial cells but not in CA1 glial cells from epileptic humans with temporal lobe epilepsy. **Epilepsy Society Meeting** (2002).
28. Bordey A and Spencer DD. Significant electrophysiological alterations in dentate gyrus glia but not in CA1 glia from epileptic humans with temporal lobe epilepsy. **Epilepsy Society Meeting** (2002).
29. Bordey A, Krueger DD, and Wang DD. Postnatal subventricular zone neuronal progenitors contain GABA and express functional GABA receptors *in situ*. **Neural Stem Cells and Brain Repair. IBRO pre-congress Satellite**, Prague (2003).
30. Bolteus A and Bordey A. Neuronal progenitors in the postnatal subventricular zone express functional dopamine receptors. **Society for Neuroscience Abstract** (2003).
31. Huang H and Bordey A. Glial and neuronal glutamate transporters modulate synaptic inhibition of Purkinje neurons by controlling presynaptic NMDA receptor activation. **Society for Neuroscience Abstract** (2003).
32. Wang DD and Bordey A. Cell-attached measurements of the resting potential of neuronal progenitors in the postnatal subventricular zone. **Society for Neuroscience Abstract** (2003).
33. Bordey A, Huang H and Spencer D. Bergmann glial GLyT1 mediates glycine uptake and release in mouse cerebellar slices. **Epilepsy Society Meeting** (2003).
34. Bordey A. Chair of a symposium entitled: "Understanding the distinct steps of postnatal neurogenesis". **Federation of European Neuroscience Societies**, Portugal (FENS, 2004).
35. Liu X, and Bordey A. GABA mediates non-synaptic communication between neuronal progenitors and astrocyte-like cells of the postnatal subventricular zone. **International Society for Stem Cell Research** (2004)

36. Bolteus A and Bordey A. Ambient GABA reduces the migration rate of neuronal progenitors of the postnatal subventricular zone. **International Society for Stem Cell Research** (2004)
37. Liu X, and Bordey A. GABA mediates nonsynaptic communication between neuronal progenitors and astrocyte-like cells of the postnatal subventricular zone. **FENS** (2004)
38. Bolteus A and Bordey A. Ambient GABA reduces the migration rate of neuronal progenitors of the postnatal subventricular zone. **FENS** (2004).
39. Bolteus and Bordey A. Local GABA signaling regulates neuronal precursor migration in the postnatal subventricular zone. **Society for Neuroscience Abstract** (2004).
40. Liu X, Wang Q and Bordey A. GABAergic Signaling between Neuronal Precursors and Astrocyte-like Cells in the Postnatal Subventricular Zone. **Society for Neuroscience Abstract** (2004).
41. Egan K and Bordey A. Excitatory synapses control NMDA receptor activity in migrating neuronal precursors. **Cortical Development** (2005).
42. Liu X, Bolteus AJ and Bordey A. GFAP-expressing progenitors in postnatal subventricular zone display a unique glial phenotype intermediate between radial glia and astrocytes. **Society for Neuroscience Abstract** (2005).
43. Huang F, Bolteus AJ and Bordey A. Prostaglandin E2 promotes neuroblast migration by increasing  $Ca^{2+}$  in presumed GFAP-expressing progenitors. **Society for Neuroscience Abstract** (2005).
44. Egan KA and Bordey A. Synaptically-released glutamate activates NMDA receptors during postnatal neurogenesis in the cerebellum. **Society for Neuroscience Abstract** (2005).
45. Bolteus A, Liu X and Bordey A. Postnatal neuronal precursors from the subventricular zone express ionotropic ATP receptors. **Society for Neuroscience Abstract** (2005).
46. Dave KA, Platel JC, Lacar B, Huang F, Rubio ME and Bordey A. Rapid glutamatergic signaling from astrocytes to neuroblasts in the neurogenic forebrain via NR2B NMDA receptors. **Society for Neuroscience Abstract** (2006).
47. Platel JC and Bordey A. Tonic activation of metabotropic glutamate receptors regulates intracellular calcium dynamics in migrating forebrain neuroblasts. **Society for Neuroscience Abstract** (2006).
48. Genzen JR, Platel JC and Bordey A. P2X7-like expression in subventricular zone ependymal cells. **Society for Neuroscience Abstract** (2006).
49. Lacar B, Platel JC, Henschel O and Bordey A. VEGF signaling in the neurogenic forebrain: a possible migratory cue. **Society for Neuroscience Abstract** (2006).
50. Egan KA, Platel JC, Lacar B, Huang F, Rubio ME, and Bordey A. Astrocytes end survival cues to migrating neuroblasts in the neurogenic forebrain through NMDA receptors. **GRC on Glial Biology** (2007).
51. Egan KA, Platel JC, Lacar B, Huang F, Rubio ME, and Bordey A. GABA and glutamate signaling control the number of stem cells and immature neurons in the adult brain. **StemConn07** (2007).
52. Henschel O, Pathania M, and Bordey A. MicroRNAs and their influence on migrational behavior of neuroblasts. **StemConn07** (2007).
53. Genzen J, Platel JC, and Bordey A. ATP receptor expression by ependymal cells in a brain stem cell niche. **StemConn07** (2007).
54. Genzen JR, Platel JC, Rinder H, Bordey A. Purinergic Receptor Expression by Brain Ependymal Cells. **Academy of Clinical Laboratory Physician and Scientists**. (2007)
55. Platel JC, Dave KA, and Bordey A. Vesicular glutamate release by neurogenic astrocytes in the adult forebrain. **Society for Neuroscience Abstract** (2007).
56. Henschel O and Bordey A. Is GABA depolarization dependent on the anion exchanger AE3 in adult forebrain neuroblasts?. **Society for Neuroscience Abstract** (2007).
57. Lacar B, Platel JC, and Bordey A. GABA controls  $Ca^{2+}$  activity-dependent network synchrony in the adult neurogenic forebrain. **Society for Neuroscience Abstract** (2007).

**Invited lectures**

- 1998 Pasteur Institute, Depart. Neurovirology and Regeneration of the Nervous System, November  
Gif-sur-Yvette, Depart. Neurosciences, France, November
- 1999 Yale Univ. Department of Neurosurgery, October
- 2000 Neuroscience Retreat, February
- 2001 Yale University, Depart. Neurology
- 2002 Yale Univ. Cellular and Molecular Physiology, March  
Neurobiology, October  
Idaho State University, Depart. Pharmaceutical Sciences, February
- 2003 Albany State University, March  
Yale Univ. Psychiatry, March  
Max-Delbrueck Center for Molecular Medicine, Berlin, July  
Neuroscience Retreat, Yale, April  
Ecole Normale Supérieure (ENS), Paris, July  
Pasteur Institute, Neuroscience Department, Paris, July  
IBRO meeting, Prague (2003), symposium: Menage a trois: neuroglial signalling at the synapse.
- 2004 Yale Neuroscience Grand Rounds, April  
FENS meeting, Lisbon, Symposium: "Understanding the distinct steps of Neurogenesis".  
University of Connecticut, Storrs, Center for Regenerative Biology Seminar, September 04  
University of Connecticut Health Center, Department of Neuroscience, November 04
- 2005 Yale University, MS Research Center Seminar, March  
Neuroscience Retreat, Yale, May  
University of Saskatchewan, Department of Physiology, May  
Burke Medical Research Institute, Weill Medical College of Cornell University, Department of Neuroscience, May  
Retreat of the department of Cellular and Molecular Physiology, October  
Yale Neuroscience Grand Rounds, November
- 2006 Yale Univ. Psychiatry, February  
Club Neurobiology, March  
Third symposium on "Glia-Synapses", Bonn, Germany, September  
UConn-Yale-Wesleyan Stem cell retreat, March  
Invited speaker at the "Glia – Synapse" Symposium, Bonn, Germany, September  
Department of Neurobiology, University of Alabama, December
- 2007 John Hopkins, Institute for Cell Engineering, April  
Invited speaker at Winter Brain Research Conference, January, Colorado  
Invited speaker at a Gordon Research Conference on Glial Biology: Functional Interactions Among Glia and Neurons, March, California  
Invited speaker at a Gordon Research Conference on Inhibition in the CNS, July, Maine  
Insitut Pasteur, Paris, November  
Gladstone Institute, San Francisco, July
- 2008 Invited speaker at FASEB Symposium, San Diego, 2008, The role of GABA and glutamate on adult neurogenesis  
Invited speaker at FENS Symposium, Geneva, 2008.