

LAUREN P. BAKER, PhD, ELS

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Professional Experience:

- 1997-present **Freelance Science/Medical Editor.** Provide substantive editing/rewriting, fact checking, copyediting and proofreading, formatting and reference checking, and assistance with submission and peer review of basic and clinical research manuscripts and other materials, many written by non-native English speakers (ESL). Specialties include neuroscience, pharmacology, cell biology, molecular biology, pathology, anatomy, and developmental biology.
- 2002-2004 **Managing Editor.** LifeSpan BioSciences, Inc., Seattle, Washington. Coordinated the efforts of a team of editors and pathologists for the generation and release of contract and database immunohistochemistry and pathology reports.
- 2001-2002 **Bioinformatic Scientist.** LifeSpan BioSciences, Inc., Seattle, Washington. Designed peptides and performed homology searches for antibody generation. Created text for and maintained pages for LifeSpan's annotated gene database.
- 1999-2001 **Manager, Editing and Imaging Divisions.** LifeSpan BioSciences, Inc. Seattle, Washington. Managed a team of editors and imagers to provide pathology analysis of digitized microscopic images of human tissues stained for immunohistochemistry. Provided editing of contract and database reports.
- Manager, Tissue Bank and Histology Divisions.** LifeSpan BioSciences, Inc. Seattle, Washington. Managed a team of technicians and histotechnicians to provide human tissues, tissue sections, and tissue stains for pathology analysis.
- 1993-1999 **Postdoctoral Fellow.** Department of Pharmacology. University of Washington. Seattle, Washington. Performed basic research on adenylyl cyclase and GAP-43/neuromodulin proteins. Authored 7 articles published in peer-reviewed journals. Authored and received funding for 2 postdoctoral research grants. Supervised undergraduate student projects.

Education:

- 1987-1993 University of North Carolina, Chapel Hill, North Carolina; PhD, Curriculum in Neurobiology
- 1981-1985 Oberlin College, Oberlin, Ohio; BA, Neurobiology

Certification:

- 2007 Editor in the Life Sciences (ELS), Board of Editors in the Life Sciences
- 2009 American Medical Writers Association Core Certificate in Pharmaceutical Writing

Grants:

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| 1995-1999 | Cystic Fibrosis Foundation Postdoctoral Fellowship |
| 1993-1995 | National Research Service Award Postdoctoral Fellowship |

Memberships:

American Medical Writers Association
Council of Science Editors
Editorial Freelancers Association
Northwest Independent Editors Guild

Publications:

Beesley J, Roush C, **Baker L**. High-throughput molecular pathology in human tissues as a method for driving drug discovery. *Drug Discov Today* 2004;9:182-189.

Baker LP, Kumar P, Storm DR, Bowden D. Expression of type I adenylyl cyclase in intrinsic pathways of the hippocampal formation of the macaque (*Macaca nemestrina*). *Neurosci Lett* 2001;299:181-184.

Wong ST, **Baker LP**, Trinh K, Hetman M, Suzuki LA, Storm DR, Bornfeldt KE. Adenylyl cyclase 3 mediates prostaglandin E(2)-induced growth inhibition in arterial smooth muscle cells. *J Biol Chem* 2001;276:34206-34212.

Baker LP, Nielsen MD, Impey S, Hacker BM, Poser SW, Chan MY, Storm DR. Regulation and immunohistochemical localization of $\beta\gamma$ -stimulated adenylyl cyclases in mouse hippocampus. *J Neurosci* 1999;19:180-192.

Baker LP, Nielsen MD, Impey S, Metcalf MA, Poser SW, Chan G, Obrietan K, Hamblin MW, Storm DR. Stimulation of type 1 and type 8 Ca^{2+} /calmodulin-sensitive adenylyl cyclases by the G_s -coupled 5-hydroxytryptamine subtype 5HT_{7A} receptor. *J Biol Chem* 1998;273:17469-17476.

Wei J, Zhao AZ, Chan GC, **Baker LP**, Impey S, Beavo JA, Storm DR. Phosphorylation and inhibition of olfactory adenylyl cyclase by CaM kinase II in neurons: a mechanism for attenuation of olfactory signals. *Neuron* 1998;21:495-504.

Baker LP, Storm DR. Dynamic palmitoylation of neuromodulin (GAP-43) in cultured rat cerebellar neurons and mouse N1E-115 cells. *Neurosci Lett* 1997;234:156-160.

Stone JS, Leano SG, **Baker LP**, Rubel EW. Hair cell differentiation in chick cochlear epithelium following aminoglycoside toxicity; *in vivo* and *in vitro* observations. *J Neurosci* 1996;16:6157-6174.

Baker LP, Peng, HB. Induction of acetylcholine receptor cluster formation by local application of growth factors in cultured *Xenopus* muscle cells. *Neurosci Lett* 1995;185:135-138.

Baker LP, Daggett D, Peng HB. Concentration of pp¹²⁵ focal adhesion kinase (FAK) at the myotendinous junction. *J Cell Sci* 1994;107:1485-1497.

Baker LP, Peng HB. Tyrosine phosphorylation and acetylcholine receptor cluster formation in cultured *Xenopus* muscle cells. *J Cell Biol* 1993;120:185-195.

Peng HB, **Baker LP**, Dai Z. A role of tyrosine phosphorylation in the formation of acetylcholine receptor clusters induced by electric fields in cultured muscle cells. *J Cell Biol* 1993;120:197-204.

Baker LP, Chen Q, Peng HB. Induction of acetylcholine receptor clustering by native polystyrene beads: implication of an endogenous muscle-derived signaling system. *J Cell Sci* 1992;102:543-555.

Peng HB, **Baker LP**, Chen Q. Tissue culture of *Xenopus* neurons and muscle cells as a model for studying synaptic transmission; In *Xenopus laevis: Practical Uses in Cell and Molecular Biology*. B.K. Kay and H.B. Peng, Eds. Methods in Cell Biology. Vol. 36. Academic Press, San Diego. 1992, pp.511-526.

Peng HB, **Baker LP**, Chen Q. Induction of synaptic development in cultured muscle cells by basic fibroblast growth factor. *Neuron* 1991;6:237-246.

Abstracts:

Baker LP, Hinds TR, Storm DR. Palmitoylation of adenylyl cyclase III and IV. *Am Soc Cell Biol Abstr* 1996;7:1581.

Baker LP. A role of growth factors and tyrosine phosphorylation during nicotinic acetylcholine receptor cluster formation in cultured *Xenopus laevis* muscle cells. Invited presentation. *Southeastern Regional Meeting of the Society for Developmental Biology*. University of Georgia, Athens, Georgia, 1993.

Baker LP, Daggett D, Peng HB. Distribution of pp¹²⁵ focal adhesion kinase in *Xenopus* muscle *in vivo* and in culture. *Carolina Conference on Integrins and Cell Signaling*, 1993.

Baker LP, Peng HB. Tyrosine phosphorylation at acetylcholine receptor clusters induced by a variety of stimuli in cultured *Xenopus* muscle cells. *Soc Neurosci Abstr* 1991;17:219.

Peng HB, Dai Z., **Baker LP**. A role of tyrosine kinase activation in the formation of acetylcholine receptor clusters induced by electric fields. *Am Soc Cell Biol Abstr* 1991;115:31.

Baker LP, Peng HB. Induction of acetylcholine receptor clustering by local application of several growth factors in *Xenopus* muscle cells. *Soc Neurosci Abstr* 1990;16:1004.

Chen Q, **Baker LP**, Peng HB. Mechanism of ACh receptor hot spot formation in cultured muscle cells: role of basic fibroblast growth factor. *Am Soc Cell Biol Abstr* 1990;111:2765.

Peng HB, **Baker LP**. Local application of basic fibroblast growth factor induces postsynaptic development in muscle cells. *Soc Neurosci Abstr* 1990;16:455.

Peng HB, **Baker LP**. Local application of basic fibroblast growth factor induces postsynaptic development in muscle cells. *UCLA Symp Growth Diff Factors Abstr* 1990;14ESuppl:82.

References available upon request