

Erin Kathleen O'Brien, M.D.

Assistant Professor

Department of Otolaryngology—Head and Neck Surgery

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Education and Training

8/1992-5/1996 **DePauw University, Greencastle, IN**
Bachelor of Arts (Biology), *magna cum laude*

8/1996-5/2000 **University of Pittsburgh School of Medicine**
Doctor of Medicine

7/2000-6/2001 **Mercy Hospital of Pittsburgh**
Internship in General Surgery

7/2001-6/2003 **University of Iowa, Departments of Anatomy and Cell
Biology and Pediatrics**
NIH Research Fellowship

6/2003-6/2007 **University of Iowa Department of Otolaryngology— Head
and Neck Surgery**
Residency in Otolaryngology

7/2007-6/2008 **University of Nebraska Medical Center Dept. of
Otolaryngology— Head and Neck Surgery**
Rhinology and Chemosensory Fellowship

7/2008-present **University of Iowa Hospitals and Clinics Dept. of
Otolaryngology— Head and Neck Surgery**
Assistant Professor
Rhinology/Sinus Surgery

Publications

O'Brien EK, Zhang X, Nishimura C, Tomblin JB, Murray JC. Association of specific language impairment (SLI) to the region of 7q31. *American Journal of Human Genetics*, **2003**, 72:1536-1543.

Schultz RE, Cooper ME, Daack-Hirsch S, Shi M, Nepomucena B, Graf KA, **O'Brien EK**, O'Brien SE, Marazita ML, Murray JC. A targeted scan of fifteen regions for nonsyndromic cleft lip and palate in Filipino families. *American Journal of Medical Genetics*, **2004**, 125A(1):17-22.

O'Brien EK, D'Alencon C, Bonde G, Li W, Schoenbeck J, Allende ML, Gelb BD, Yelon D, Eisen JS, Cornell RA. Transcription factor AP-2a is necessary for development of embryonic melanophores, autonomic neurons, and pharyngeal skeleton in zebrafish. *Developmental Biology*, **2004** 165: 246-261.

O'Brien EK and Leopold DA. "Olfaction and taste: Implications of viral, toxic exposure, head injury, aging and drugs." In: Textbook of Rhinology. Springer Verlag, Germany (in print).

Posters and Presentations

O'Brien EK, Ritzenthaler SE, Hazel W. "Environmental Cues for Dimorphic Pupal Color in Swallowtail Butterflies," presentation at 3rd Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics, 1993.

O'Brien EK, Zhang X, Nishimura C, Tomblin JB, Murray JC. "Association of Specific Language Impairment (SLI) to the region of 7q31," poster at the Jackson Laboratory Annual Short Course in Medical and Experimental Mammalian Genetics, Bar Harbor, ME, 2002.

O'Brien, EK and Cornell, RA. "Transcription factor AP-2a is necessary for development of embryonic melanophores, autonomic neurons, and pharyngeal skeleton in zebrafish," presentation for the Department of Pediatrics, University of Iowa, Iowa City, IA, 2003.

O'Brien, EK and Cornell, RA. "Patterning of zebrafish neural crest requires transcription factor AP-2," poster at the Carver College of Medicine Research Week, University of Iowa, Iowa City, IA, 2003.

Rudman K, **O'Brien EK**, Harvey J, Leopold DA. "Radiographic distribution of drops and sprays within the sinonasal cavity", presentation at American Rhinologic Society Annual Meeting, 2008.

Research

1993 DePauw University, Department of Biological Sciences
Field studies in the natural selection of pupal color in swallowtail butterflies. Advisor: Wade N. Hazel, PhD

- 1994 Eli Lilly and Company, Indianapolis, IN
Summer Internship Program
- 1995-1996 Methodist Research Institute, Methodist Hospital, Indianapolis, IN
Summer Student Research Program, Department of Radiology
- 1995 Harvard Medical School, Mucosal Immunology Laboratory
Science Research Fellows Semester Off-Campus Research Internship
Molecular biology research in the downstream ligands of CD40
binding protein. Advisor: Bobby J. Cherayil, MD
- 1997 University of Pittsburgh, Division of Molecular Diagnostics,
Department of Pathology
Medical Student Research Program, Medical Alumni Association
Amplification of cheek swab DNA samples for association studies.
Advisor: Garth D. Ehrlich, PhD

- 2001-2003 University of Iowa Hospitals and Clinics, Department of Pediatrics
NIH Research Fellowship. Genotyping and linkage and association
studies for cleft lip and palate and specific language impairment.
Advisor: Jeffrey C. Murray, MD
- 2002-2006 University of Iowa, Department of Anatomy and Cell Biology
NIH Research Fellowship. Neural crest and craniofacial development
in zebrafish knock-down models of AP-2a and IRF-6. Advisor: Robert
A. Cornell, PhD

Awards and Honors

- 1992 **Rector Presidential Scholarship** (full tuition for four years)
DePauw University
- 1992-1996 **Science Research Fellows Program**
DePauw University, Greencastle, IN
- 1996 **Phi Beta Kappa**
- 1996 **Albert E. Reynolds Outstanding Senior Award in Biological
Sciences**
DePauw University
- 2000 **Kenneth H. Hinderer, M.D. Memorial Award in Otolaryngology**
University of Pittsburgh School of Medicine
- 2003 **University of Iowa College of Medicine Research Week Poster
Competition Award**

Professional Memberships

- 2001-present American Academy of Otolaryngology
- 2001-2003 American Society of Human Genetics
- 2005 American Academy of Otolaryngic Allergy
- 2007-present American Rhinologic Society

Courses Taken

- 2001 American Society of Human Genetics Annual Meeting, San Diego, CA
- 2002 43rd Annual Short Course in Medical and Experimental Mammalian Genetics,
The Jackson Laboratory, Bar Harbor, ME.
- 2002 American Society of Human Genetics Annual Meeting, Baltimore, MD
- 2003 University of Iowa Department of Otolaryngology Head and Neck Laser
Course
- 2004 American Academy of Otolaryngology-Head and Neck Surgery Annual
Meeting, New York, NY
- 2004 University of Iowa Department of Otolaryngology Head and Neck Course
- 2005 AAOA Basic Course in Otolaryngic Allergy, Quebec City, Quebec
- 2006 American Rhinologic Society Spring Meeting, Chicago, IL
- 2006 University of Iowa Department of Otolaryngology Sinus Course

2006 American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting, Toronto, Quebec

Teaching Experience

1994 Teaching Assistant, Organismal Biology, DePauw University
1995, 1996 Teaching Assistant, Comparative and Developmental Biology, DePauw University
2005, 2006 University of Iowa Department of Otolaryngology Basic Science Course

Community Activities

1994-1995 Volunteer, Plainfield Juvenile Correctional Facility, Plainfield, IN
1996-1997 Volunteer, Birmingham Free Medical Clinic, Pittsburgh, PA
1997-2000 Treasurer, University of Pittsburgh School of Medicine, Class of 2000
1997 Interviewer, University of Pittsburgh School of Medicine Office of Admissions
2002 Operation Smile, Naga City, Camarines Sur, Philippines