

## CURRICULUM VITAE

**CHAD A. PERLYN, MD,  
PHD**

### CURRENT POSITION:

Attending Surgeon, Miami Children's Hospital

Associate Program Director  
Craniofacial Surgery Fellowship  
Miami Children's Hospital

Assistant Professor of Surgery (Clinical), Division of Plastic Surgery,  
Florida International University College of Medicine

LICENSURE: Florida Medical License, ME 104064  
Missouri Medical License, #2006001567

BOARD CERTIFICATION: Diplomate of the American Board of Plastic Surgery

### EDUCATION AND PROFESSIONAL QUALIFICATIONS:

- 1987-1991 High School: Pine Crest Preparatory School, Ft. Lauderdale, Florida.
- 1991-1995 Undergraduate: Northwestern University, Evanston, Illinois. Bachelor of Arts in English Literature.
- 1995-2000 Medical School: University of Miami, School of Medicine, Miami, Florida; M.D. degree with Research Distinction.  
Elective 5th Year (Research): Craniofacial Surgery Research Fellowship, Craniofacial Imaging Laboratory, Cleft Palate and Craniofacial Deformities Institute: St. Louis Children's Hospital, St. Louis, Missouri. Principal Investigator: Jeffrey Marsh, MD.

#### POST-GRADUATE TRAINING:

- 2000-2003: Combined General Surgery/Plastic Surgery Training Program, Washington University School of Medicine, Barnes Hospital and Saint Louis Children's Hospital, St. Louis, Missouri, USA.
- 2003-2006: PhD graduate student (D.Phil, Oxford), University of Oxford, Department of Physiology, Anatomy and Genetics, Oxford, England; Supervisor: Professor Gillian Morriss-Kay. Thesis title: *Signaling paradigms of Fibroblast Growth Factor Receptor Type 2: Studies from a Crouzon/Pfeiffer Syndrome Mouse Model.*
- 2006-2008: Plastic surgery resident, Washington University School of Medicine, Barnes Hospital and Saint Louis Children's Hospital, St. Louis, Missouri, USA.
- 2008-2009: Pediatric Plastic Surgery and Craniofacial fellow, St. John's Mercy Medical Center, St. Louis, MO. Fellowship Director: Jeffrey L. Marsh, MD

#### PROFESSIONAL ASSOCIATIONS:

Co-Director and creator, Craniofacial Model Library Project (utilized by 70 centers around the world). <http://www.medicalmodeling.com/craniofacialmodels/>

#### PROFESSIONAL MEMBERSHIP:

American Society of Plastic Surgeons, Candidate Member  
American College of Surgeons, Candidate Member  
Cleft Palate-Craniofacial Association  
Association of Plastic and Reconstructive Surgeons of Southern Africa (Honorary)

#### HONORS AND AWARDS:

- 2008 Resident Representative to ASPS/PSEF Board of Directors (2008)
- 2008 Teacher of the Year Award-Division of Plastic Surgery, Barnes Hospital, Saint Louis, MO.
- 2007 Teacher of the Year Award-Division of Plastic Surgery, Barnes Hospital, Saint Louis, MO.
- 2007 Caring Spirit Award – Barnes-Jewish Hospital, St. Louis, Missouri.
- 2005 Cassio M. Raposo do Amaral Award-presented for best resident presentation at the International Society of Craniofacial Surgery meeting, Coolum, Australia.
- 2004 Scientific Traveling Fellowship, *Journal of Development*, Kyoto, Tokyo, Japan.

- 2004 Arnold Huddart Medal- presented for best scientific research at the Craniofacial Society of Great Britain & Ireland Scientific Annual Scientific Conference, Bath, England.
- 2002 Resident of the Year Award, Barnes-Jewish Hospital, St. Louis, Missouri.
- 2001 Caring Spirit Award-Barnes-Jewish Hospital, St. Louis, Missouri.
- 2000 Best scientific paper –St. Louis Society of Plastic Surgeons Annual Resident Research Meeting.
- 1999 Iron Arrow Honor Society -the highest honor obtainable at the University of Miami.
- 1999 Alari Teitler Award -presented by the University of Miami School of Medicine for values most representative of a physician.
- 1999 Excellence in Plastic Surgery Award, Department of Surgery, University of Miami School of Medicine, Miami, Florida.
- 1998 Alpha Omega Alpha National Medical Honor Society.
- 1998 Alpha Epsilon Lambda National Honor Society for Graduate and Professional School.

**RESEARCH GRANTS:**

- 2005-2006: Plastic Surgery Educational Foundation/Fresh Start Surgical Gifts Research Fellowship Grant. Provided \$30,000.00 for salary support for project entitled, " Effects of an *Fgfr2* mutation on palatal and craniofacial growth."
- 2005-2006: American Cleft Palate and Craniofacial Association/Cleft Palate Foundation's Junior Investigator Grant. Provided \$5,000.00 for support of project entitled, "Etiology of Congenital Anomalies of the Trachea in Individuals with *FGFR* Mutations: Studies from a Crouzon Mouse Model".
- 2003-2005: American College of Surgeons Resident Research Grant. Provided \$60,000.00 for support of project entitled, "Roles of Fibroblast Growth Factor Receptor-3 in Normal and Abnormal Skull Development and Growth."
- 2004-2005: Plastic Surgery Educational Foundation Grant. Provided \$4000.00 for support of project entitled "Effects of the *Fgfr2<sup>cysmryr</sup>* mutation on craniofacial growth."
- 2003-2004: SmileTrain Cleft Palate Etiology Grant. Provided \$20,000.00 for support of project entitled, "The aetiology of cleft palate and midface hypoplasia in a Crouzon mouse model."
- 1998-1999: University of Miami Dean's Research Award. Provided \$3,000.00 dollars for support of project entitled, "The use of antibiotics in fibrin glue for the treatment of contaminated wounds."

PEER REVIEWED PUBLICATIONS:

Greene, A.K., Perlyn, C.A., Alomari, A.I. Management of Lymphatic Malformation. *Clin Plast Surg* 38:75-82,20011.

Burke, R.M., Morin, R.J., Perlyn, C.A., Laure, B., Wolfe, S.A. Special Considerations in Vascular Anomalies: Operative Management of Craniofacial Osseous Lesions. *Clin Plast Surg* 38:133-142, 2011.

Perlyn, C.A., Nichols, D., Becker, D., Woo., A. Kane, A. LePremier Siecle: One hundred years of progress in the treatment of Apert syndrome. *J Craniofac Surg.* 20:801-806,2009.

Nathan, N., Latham, K., Cooper, J., Perlyn, C., Gozlan, I., Thaller, S.R. Anthropometry of the external ear in children with cleft lip and palate in comparison to age-matched controls. *J Craniofac Surg.* 19:1391-1395,2008.

Perlyn, C.A., Marsh, J.L. Craniofacial dysmorphology of Carpenter syndrome: Lessons from three affected siblings. *Plast Reconstr Surg.* 121: 97181, 2008.

Schmelzer, R., Perlyn, C.A., Kane, A., Pilgram, T.T., Govier, D., Marsh, J.L.. Patterns of calvarial dysmorphology in non-syndromic sagittal synostosis. *Plast Reconstr Surg.* 119:1546-1552,2007.

Hansen, M.S., 6lafsdóttir, H., Darvann, T.A., Hermann, N.V., Oubel, E., Larsen, R., Ersb011, B.K. Frangi, A.F., Larsen, P., Perlyn, C.A., Morriss-Kay, G.M., Kreiborg, S. Estimation of independent non-linear deformation modes for analysis of craniofacial malformations in crouzon mice. *JSBI* 4:1296-1299, 2007.

Hansen, M.S., 6lafsdóttir, H., Darvann, T.A., Hermann, N.V., Oubel, E., Larsen, R., Ersb011, B.K. Frangi, A.F., Larsen, p., Perlyn, C.A., Morriss-Kay, G.M., Kreiborg, S. Craniofacial statistical deformation models of wild-type mice and crouzon mice. *Progress in Biomedical Optics and Imaging* 6512:6512c, 2007.

Jenkins, D., Seelow, D., Jehue, F.S., Perlyn, C.A., Alonso, L.G., Bueno, D.F., Donnai, D. Josifiova, D., Mathijssen, I.M.J., Morton, J.E.V., Orstavik, K.H. Sweeney, E. Wall, S.A., Marsh, J.L. Nuinberg, P., Passos-Bueno, M.R., Wilkie, A.O.M. RAB23 mutations in carpenter syndrome imply an unexpected role for Hedgehog signaling in cranial-suture development and obesity. *Am J Hum Genetics* 80:1162-1170,2007.

6lafsdóttir, H., Darvann, T.A., Hermann, N.V., Oubel, E., Ersb011, B.K., Frangi, A.F., Larsen, P., Perlyn, C.A., Morriss-Kay, G.M., Kreiborg, S. Computational mouse atlases and their application to automatic assessment of craniofacial dysmorphology caused by the Crouzon mutation *Fgfr2c*<sup>342v</sup>. *Journal of Anatomy.* 21:37 52, 2007.

Perlyn, C.A., DeLeon, V.B., Babbs, C., Govier, D., Burell, L., Darvann, T., Kreiborg, S., Morriss-Kay, G.M. The craniofacial phenotype of the Crouzon mouse: Analysis of a model for syndromic craniosynostosis using 3D MicroCT. *Cleft Palate-Craniofac J.* 43:740-747, 2006.

Perlyn, C.A., Morriss-Kay, G.M., Darvann, T., Tenenbaum, M., Omitz, D. A model for the phannacologic treatment of Crouzon syndrome. *Neurosurgery* 59:210-215,2006.

Perlyn, C.A., Lowe, J.B. The S.O.F.T. check method: An approach to lower eyelid and midface rejuvenation. *Missouri Medicine* 103:275-281, 2006.

Perlyn, C.A., Schmelzer, R., Govier, D., Marsh, J.L. Congenital scalp and calvarial deficiencies:

- Principles for classification and surgical management. *Plast Reconstr Surg* 11S:1129w-1141, 2005.
- Perlyn, C.A., Hagan, R., Schmelzer, R., et al. Development of the Craniofacial Model Library. In Salyer, K., ed. *Craniofacial Surgery X: Proc of the X International Congress of the ISCF*. Monduzzi, Bologna, 2003.
- Mobley, S.R., Glassberg, M.K., Luebke, A., Perlyn, C.A., Davis, R.E. Expression of Endothelinw1 in rat random-pattern skin flaps treated with topical nifedipine. *Arch of Facial Plastic Surg*. 5(1):78-82, 2003.
- Perlyn, C.A., Brownstein, J.N., Huebener, D.V., Marsh, J.L., et al. Occlusal relationship in bilateral cleft lip and palate patients during the mixed dentition stage: Does neonatal maxillary arch configuration predetermine outcome? *Cleft Palate Craniofac J*. 39(3):317-321, 2002.
- Perlyn, C.A., Schmelzer, R., Sutera, S, et al. Effect of distraction osteogenesis of the mandible on upper airway volume and resistance in children with micrognathia. *Plast. Reconstr. Surg*. 109(6):1809-1818, 2002.
- Aldridge K., Marsh J.L., Perlyn C.A., Richtsmeier J.T., Kane A.A. Quantification of the impact of isolated craniosynostosis on central nervous system morphology. *Transactions of the 9th International Congress on Cleft Palate and Related Craniofacial Anomalies*. June 2001.
- Perlyn, C.A., Kane, A.A., Marsh, J.L., et al. The craniofacial anomalies archive at St. Louis Children's Hospital: 20 Years of craniofacial imaging experience. *Plast. Reconstr. Surg*. 108(7):1862-70, 2001.
- Gurley, J.M., Pilgram, T., Perlyn, C.A., Marsh, J.L. Long term outcome of autogenous rib graft nasal reconstruction. *Plast. Reconstr. Surg*. 108(7):1895-1905, 2001.
- Perlyn, C.A., Marsh, J.L., Pilgram, T.K., Kane, A. Plasticity of the endocranial base in nonsyndromic craniosynostosis. *Plast. Reconstr. Surg*. 108(2):294-301, 2001.
- Haugen, C., Perlyn, C.A., Thatler, S. Plastic surgery of the abdominal wall. *J. Florida Med. Assoc*. 86(2):69-73, 2000.
- Perlyn C, Meara J, Smith S, Breuing K, Bartlett R. Secondary reconstruction of a giant congenital lentiginous dermal nevus with serial large volume tissue expansion. *Annals Plast. Surg*. 43(5):546-550, 1999.
- Oarri JE, Perlyn CA, Johnson MJ, Mobley SR, Kurtin OC, Thaller SR. Patterns of maxillofacial injuries in powered watercraft collisions. *Plast. Reconstr. Surg*. 104(4):922w-927, 1999.
- Davis RE, Wachholz JH, Jasir D, Perlyn CA, Agrana MH. Comparison of topical anti-ischemic agents in the salvage of failing random-pattern skin flaps. *Arch of Facial Plastic Surgery*, 1(1):27-32, 1999.
- Perlyn C, Edmiston J. Unilateral Amastia: A case of Poland's Syndrome: *Arch Pediatr Ado/esc Med*, 153(12):1305-1306, 1999
- Knox, K.L., Ringstrom, S.J., Szabo, M., Perlyn, C.A., Sutandi, S., Schwartz N.B. RU486 on an estrogen background blocks the rise in serum follicle-stimulating hormone induced by antiserum to inhibin or ovariectomy. *Endocrinology* 137:1226w-1232, 1996.

Szabo, M., Knox, K.L., Ringstrom, S.J., Perlyn, C.A., Sutandi, S., Schwartz N.B. Mechanism of the inhibitory action of RU486 on the secondary follicle-stimulating hormone surge. *Endocrinology* 137:85-89, 1996.

**BOOKS:**

Greene, A.K. & Perlyn, C.A. (Eds.) 2011; *Vascular Anomalies/Clinics in Plastic Surgery*. Philadelphia, PA. W.B. Saunders Company.

Marsh, J.L. & Perlyn, C.A. (Eds.). 2010; *Decision Making in Plastic Surgery*. StLouis, MO: Quality Medical Publishers.

**INVITED/GUEST LECTURES:**

Pittsburgh, USA. University of Pittsburgh. Title "Drug therapy for craniosynostosis." January 2008.

Boston, USA. Boston Children's Hospital/Harvard University. Title "*Developments In development: New insight Into craniofacial embryogenesis.*" October, 2007.

Copenhagen, Denmark. Copenhagen Craniofacial Unit/Danish Craniofacial Society. Title "*The pharmacologic treatment of Craniosynostosis-is it possible?*" October, 2006.

Bloomfontein, South Africa. Association of Plastic Surgeons of Southem Africa annual meeting. Title "*The Craniofacial Model Library and the Tactile Imaging Phenomena.*" Oct, 2005.

Copenhagen, Denmark. Copenhagen Dental School. Title "*Growth of the Crouzon Skull. What can we learn from a mouse?*" May, 2005!

Tokyo, Japan. Tokyo Medical and Dental University. Title "*Fibroblast Growth Factor Receptors and Palate Development-Studies from a mouse model for Cleft Palate.*" Sep, 2004.

Taipei, Taiwan. Chang Gong Memorial Hospital. Title "*From Lab Bench to Operating Theater: Insight from Craniofacial Developmental Biology.*" Sep, 2004

London, England. Great Ormond Street Children's' Hospital. Title "*Palatal Blueprinting. The Molecular Plan for Palate Development.*" May, 2004.