**Name:** Fabienne Lee Gray

# Education:

2001 BA – English

University of California, Berkeley Berkeley, CA

2008 MD

Louisiana State University Health Sciences Center – New Orleans New Orleans, LA

# Postdoctoral Training:

2008-2009 Intern in General Surgery

Louisiana State University Health Sciences Center – New Orleans New Orleans, LA

2009-2010 Resident II in General Surgery

Louisiana State University Health Sciences Center – New Orleans New Orleans, LA

2010-2012 Research Fellow in Surgery

Children’s Hospital Boston Boston, MA

2012-2015 Resident III-V in General Surgery

Louisiana State University Health Sciences Center – New Orleans New Orleans, LA

2015-2017 Fellow in Pediatric Surgery

Arkansas Children's Hospital Little Rock, AR

# Board Certification:

# American Board of Surgery, Surgery, Certificate #060732

# November 16, 2015 – December 31, 2026

# Other Academic Activities:

2010 Laparoscopy Instructor, Course OEB 251 – “Introduction to Vertebrate Surgery”, Harvard Medical School. Boston, MA.

2011 Invited speaker for “Life as a Resident: An Insider’s Perspective” at the National Youth Leadership Forum. Worcester, MA.

2011 Trauma and Emergency Medical Technician Instructor with Operation Smile.

Ho Chi Minh City and Hanoi, Vietnam; and Yangon, Myanmar.

2011 Laparoscopy Instructor, Course OEB 251 – “Introduction to Vertebrate Surgery”, Harvard Medical School. Boston, MA.

2012 Invited lecturer at the weekly conference of the Advanced Fetal Care Center, Children’s Hospital Boston. Boston, MA.

2012 Invited lecturer for the Biology Department Seminar Series of Bucknell University. Lewisburg, PA.

# Publications:

## Manuscripts

Klein J, Turner C, Gray F, Yu D, Kozakewich H, Perez-Atayde A, Voss S, Zurakowski D, Shamberger R, Weldon C. Adrenal Cortical Tumors in Children: Factors Associated with Poor Outcome. *J Pediatr Surg* 2011; 46: 1201-7.

Gray F, Jennings R. Thoracoscopic Aortopexy for the Treatment of Pediatric Tracheomalacia: A Right-Sided Approach. *Operative Techniques in Thoracic and Cardiovascular Surgery: A Comparative Atlas* 2012; 16: 322-30.

Turner C, Klein J, Gray F, Ahmed A, Zurakowski D, Fauza D. Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells. *J Surg Res* 2012; 178: 785-90.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. *J Pediatr Surg* 2012; 47: 1072-9.

Pennington E, Gray F, Ahmed A, Zurakowski D, Fauza D. Targeted Quantitative Amniotic Cell Profiling: A Potential Diagnostic Tool in the Prenatal Management of Neural Tube Defects. *J Pediatr Surg* 2013; 48: 1205-10.

Gray F, Turner C, Zurakowski D, Bousvaros A, Linden B, Shamberger R, Lillehei C. Predictive Value of the Pediatric Ulcerative Colitis Activity Index in the Surgical Management of Ulcerative Colitis. *J Pediatr Surg* 2013; 48: 1540-5.

Turner C, Pennington E, Gray F, Ahmed A, Teng Y, Fauza D. Intra-Amniotic Delivery of Amniotic-Derived Neural Stem Cells in a Synergistic Model of Spina Bifida. *Fetal Diagn Ther* 2013; 34: 38-43.

## Book Chapters

Gray F, Fauza D. Fetal Stem Cell Transplantation: Fetal Tissue Engineering. In: Kilby M, Johnson A, Oepkes D, editors: Fetal Therapy: Scientific Basis and Critical Appraisal of Clinical Benefits. Cambridge, UK: Cambridge University Press; in press (2012).

# Presentations:

Gray F, Turner C, Lien C, Linden B. Single Incision Laparoscopic Appendectomy. Presented at the 44th Annual Meeting of the Pacific Association of Pediatric Surgeons. Cancun, Mexico. 2011.

Gray F, Turner C, Yu D, Grabowski M, Kozakewich H, Perez-Atayde A, Greene A, Labow B, Weldon C. Incidence and Outcomes of Surgically Treated Breast Masses in Adolescent Girls. Presented at the 44th Annual Meeting of the Pacific Association of Pediatric Surgeons. Cancun, Mexico. 2011.

Gray F, Stoffan A, Rice-Townsend S, Baxter J, Rangel S. A Critical Review of the Clinical Evidence for Managing Perforated Appendicitis in Children: Justifying the Need for Standardized Reporting Guidelines. Presented at the 44th Annual Meeting of the Pacific Association of Pediatric Surgeons. Cancun, Mexico. 2011.

Gray F, Turner C, Klein J, Ahmed A, Zurakowski D, Fauza D. Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells. Presented at the 12th Annual Dr. M. Judah Folkman Research Day. Boston, MA. 2011.

Gray F, Barnewolt C, Connolly S, Buchmiller T. Laryngotracheoesophageal Cleft and Congenital Diaphragmatic Hernia: A rare association of two life-threatening anomalies. Presented at the 21st World Congress on Ultrasound in Obstetrics and Gynecology. Los Angeles, CA. 2011.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. Presented at the 2011 American Academy of Pediatrics National Conference and Exhibition. Boston, MA. 2011.

Gray F, Turner C, Zurakowski D, Bousvaros A, Linden B, Shamberger R, Lillehei C. Predictive Value of the Pediatric Ulcerative Colitis Activity Index in the Surgical Management of Ulcerative Colitis. Presented at the 2011 American Academy of Pediatrics National Conference and Exhibition. Boston, MA. 2011.

Gray F, Turner C, Klein J, Ahmed A, Zurakowski D, Fauza D. Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells. Presented at the 5th Annual Association of Women Surgeons Starr Poster Contest for Residents. San Francisco, CA. 2011.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. Presented at the 5th Annual Association of Women Surgeons Starr Poster Contest for Residents. San Francisco, CA. 2011.

Gray F, Turner C, Klein J, Ahmed A, Zurakowski D, Fauza D. Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells. Presented at the 58th Annual Meeting of the Massachusetts Chapter of the American College of Surgeons. Boston, MA. 2011.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. Presented as a poster at the 58th Annual Meeting of the Massachusetts Chapter of the American College of Surgeons. Boston, MA. 2011.

Gray F, Ahmed A, Turner C, Klein J, Loh Y, Hartung O, Manos P, Daley G, Fauza D. A Simplified Protocol for Human Mesenchymal Amniocyte-Induced Pluripotent Stem Cell Maintenance: Implications for Disease Models and Clinical Applicability.

Presented at the 31st Annual Meeting of the International Fetal Medicine and Surgery Society. Queenstown, New Zealand. 2012.

Gray F, Turner C, Klein J, Gray F, Ahmed A, Zurakowski D, Fauza D. Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells. Presented at the 31st Annual Meeting of the International Fetal Medicine and Surgery Society. Queenstown, New Zealand. 2012.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. Presented at the 31st Annual Meeting of the International Fetal Medicine and Surgery Society. Queenstown, New Zealand. 2012.

Gray F, Barnewolt C, Connolly S, Buchmiller T. Laryngotracheoesophageal Cleft and Congenital Diaphragmatic Hernia: A rare association of two life-threatening anomalies. Presented at the 31st Annual Meeting of the International Fetal Medicine and Surgery Society. Queenstown, New Zealand. 2012.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. Presented at the Harvard Surgery Research Day Symposium. Boston, MA. 2012.

Gray F, Turner C, Ahmed A, Calvert C, Zurakowski D, Fauza D. Prenatal Tracheal Reconstruction with a Hybrid aMSC-Engineered Construct Derived From Decellularized Airway. Presented at the New England Surgical Society 19th Annual Surgical Resident and Fellow Research Presentation Day. Farmington, CT. 2012.

Gray F, Ahmed A, Turner C, Loh Y, Devine A, Hartung O, Zurakowski D, Daley G, Fauza D. An *In Vivo* Model of Human-Derived Fibrous Hamartoma of Infancy.

Presented at the 43rd Annual Meeting of the American Pediatric Surgery Association. San Antonio, TX. 2012.

Gray F, Dionigi B, Turner C, Pennington E, Ahmed A, Darrah T, Faraj K, Zurakowski D, Fauza D. Optimization of Craniofacial Repair with aMSC-Engineered Fetal Bone Grafts: Nanofibrous vs. Hybrid Synthetic/Natural Scaffolds. Presented at the 59th Annual Meeting of the Massachusetts Chapter of the American College of Surgeons. Boston, MA. 2012.

Gray F, Pennington E, Ahmed A, DeVine A, Fitzgerald K, Daley G, Fauza D. Episomal Reprogramming of Human Amniotic Mesenchymal Stem Cells: Another Step Towards Translational Applications. Presented at the 2012 American Academy of Pediatrics National Conference and Exhibition. New Orleans, LA. 2012.

Gray F, Dionigi B, Turner C, Klein J, Ahmed A, Zurakowski D, Fauza D. Craniofacial Repair with Fetal Bone Grafts Engineered from Amniotic Mesenchymal Stem Cells. Presented at the XLII International Symposium of Pediatric Surgery. Obergurgl, Tyrol, Austria. 2013.

Gray F, Turner C, Ahmed A, Pennington E, Dionigi B, Faraj D, Zurakowski D, Fauza

D. Optimization of Craniofacial Repair with Engineered Fetal Bone Grafts: A Comparison between Nanofibrous and Hybrid Synthetic/Natural Scaffolds. Accepted for presentation at the 9th Annual Academic Surgical Congress Basic Science Plenary Session. San Diego, CA. 2014.

# Awards:

2010 *ABSITE Top Score Award* for PGY-2 at Louisiana State University Health Sciences Center – New Orleans. New Orleans, LA.

2011 *Best Presentation Award* at the 12th Annual Dr. M. Judah Folkman Research Day. Boston, MA.

2011 *Starr Award for a Resident Demonstrating Excellence in Innovative Research* at the 5th Annual Association of Women Surgeons Starr Poster Contest for Residents. San Francisco, CA.

2011 *Resident Competition Basic Science Winner* at the 58th Annual Meeting of the Massachusetts Chapter of the American College of Surgeons. Boston, MA.

2012 *Umberto Nicolini Travel Award* for the 31st Annual Meeting of the International Fetal Medicine and Surgery Society. Queenstown, New Zealand.

2012 *Vandenberghe-Stortz Award* at the 31st Annual Meeting of the International Fetal Medicine and Surgery Society. Queenstown, New Zealand.

2012 *Basic Science Winner* at the New England Surgical Society 19th Annual Surgical Resident and Fellow Research Presentation Day. Farmington, CT.

2012 *Best Translational Study* at the Boston Children’s Hospital’s 9th Annual Symposium on Cellular, Molecular, and Clinical Research in Surgery. Boston, MA.