Javier A. Couto, MD
373 Calle San Jorge, Suite 200
San Juan, PR 00912
787.422.0004
jcouto@coutoplasticsurgery.com

Education
Residency in Plastic Surgery, University of Pennsylvania Health System: 2017-2023
M.D. (Magna Cum Laude), University of Puerto Rico School of Medicine: 2010-2017
B.S. (Magna Cum Laude) in Biology, University of Puerto Rico: 2005-2009

Fellowships
Aesthetic Plastic Surgery Fellowship, Bucky Plastic Surgery: July 2023-December 2023
Research Fellowship, Dept. of Plastic Surgery, Boston Children's Hospital: July 2013-June 2016

Honors & Awards
Dr. Ramón Ruiz Arnau Clinical Research Award: 2017
Alpha Omega Alpha Honor Society (Junior year): 2013
University of Puerto Rico, RP Dean's List: 2007-2009

Professional Affiliations
International Society of Hair Restoration Surgery, Associate Member: 2024-present
Plastic Surgery Research Council, Candidate Member: 2024-present
American Society for Aesthetic Plastic Surgery, Resident Member: 2020-2023
American Society of Plastic Surgeons, Resident Member: 2017-2023
Alpha Omega Alpha Medical Honor Society, Member: 2013

Committees
American Society of Plastic Surgeons, Clinical Research Committee, Resident Affiliate: 2019

Research
Plastic Surgery, Boston Children's Hospital: July 2013 – June 2016
Principal Investigator: *Arin K. Greene, MD, MMSc*

Certification Exams
USMLE STEP 1- Approved (2012)
USMLE STEP 2- Approved (2013)
USMLE STEP 2 CS- Approved (2017)
USMLE STEP 3 – Approved (2019)
Advanced Cardiac Life Support (ACLS) Certified: 2023

Personal Information
Birth Place: San Juan, PR
Date of Birth: August 05, 1987
Languages: English, Spanish

PUBLICATIONS

Peer-Reviewed Articles

1) **Couto JA**, Maclellan RA, Greene AK. Infantile hemangioma: Treatment rate during the proliferating phase. *J Craniofac Surg.* 2014 Sep;25(5):1933-1934. PMID: 25119403.

2) **Couto JA**, Greene AK. Management of problematic infantile hemangioma using intralesional triamcinolone: Efficacy and safety in 100 infants. *J Plast Reconstr Aesthet Surg.* 2014 Nov;67(11):1469-1474. PMID: 25104131.

3) **Couto JA**, Sullivan JE, Greene AK. Facial wound closure in children using a 7-0 absorbable suture dressing. *J Craniofac Surg.* 2015 Jan;26(1):76-78. PMID: 25534052.

4) **Couto JA**, Vivero MP, Kozakewich HP, Taghinia AH, Mulliken JB, Warman ML, Greene AK. A somatic *MAP3K3* mutation is associated with verrucous venous malformation. *Am J Hum Genet.* 2015 Mar;96(3):480-486. PMID: 25728774.

5) D'Gama AM, Geng Y, **Couto JA**, LaCoursiere CM, Hossain A, Hatem N, Barry BJ, Kwiatkowski DJ, Vinters H, Shendure J, Mathern GW, Walsh CA, Poduri A. Mammalian target of rapamycin pathway mutations cause hemimegalencephaly and focal cortical dysplasia. *Ann Neurol.* 2015 Apr;77(4):720-725. PMID: 25599672.

6) Hassanein AH, **Couto JA**, Mulliken JB, Greene AK. Stewart-Treves phenomenon: Lymphangiosarcoma arising in lymphedematous tissue is not a syndrome. *Lymphat Res Biol.* 2015 Sep;13(3):228-229. PMID: 25658055.

7) Hassanein AH, **Couto JA**, Greene AK. Circular excision and purse-string closure for pediatric facial skin lesions. *J Craniofac Surg*. 2015 Jul;26(5):1611-1612. PMID: 26107002.

8) **Couto JA**, Schmidt BAR, Greene AK. Nodular foot myxedema masquerading as lymphedema. *Plast Reconstr Surg Glob Open.* 2015 Aug 10;3(7):e457. PMID: 26301146.

9) **Couto JA**, Maclellan RA, Greene AK. Management of vascular anomalies and related conditions using suction-assisted tissue removal. *Plast Reconstr Surg*. 2015 Oct;136(4):511e-514e. PMID: 26397270.

10) **Couto JA**, Huang L, Vivero MP, Kamitaki N, Maclellan RA, Mulliken JB, Bischoff J, Warman ML, Greene AK. Endothelial cells from capillary malformations are enriched for somatic *GNAQ* mutations. *Plast Reconstr Surg.* 2016 Jan;137(1):77e-82e. PMID: 26368330.

11) **Couto JA***, Ayturk UM, Hann S, Mulliken JB, Williams KL, Huang AY, Fishman SJ, Boyd TK, Kozakewich HP, Bischoff J, Greene AK, Warman ML. Somatic activating mutations in *GNAQ* and *GNA11* are associated with congenital hemangioma. *Am J Hum Genet.* 2016 Apr 7;98(4):789-795. PMID: 27058448. [* co-first author]

12) Beijnen UEA, Maclellan RA, Goss JA, **Couto JA**, Konczyk DJ, Greene AK. Beckwith-Wiedemann syndrome and primary lymphedema of the lower extremity. *Pediatr Dermatol.* 2017 Jan;34(1):e51-e53. PMID: 27778389.

13) Huang L, **Couto JA**, Pinto A, Alexandrescu S, Madsen JR, Greene AK, Sahin M, Bischoff J. Somatic *GNAQ* mutation is enriched in brain endothelial cells in Sturge-Weber syndrome. *Pediatr Neurol.* 2017 Feb;67:59-63. PMID: 27919468

14) **Couto JA**, Uyturk UM, Konczyk DJ, Goss JA, Huang AY, Hann S, Reeve JL, Liang MG, Bischoff J, Warman ML, Greene AK. A somatic *GNA11* mutation is associated with extremity capillary malformation and overgrowth. *Angiogenesis*. 2017 Aug;20(3):303-306. PMID: 28120216.

15) **Couto JA**, Huang AY, Konczyk DJ, Goss JA, Fishman SJ, Mulliken JB, Warman ML, Greene AK. Somatic *MAP2K1* mutations are associated with extracranial arteriovenous malformation. *Am J Hum Genet*. 2017 Mar 2;100(3):546-554. PMID: 28190454.

16) **Couto JA**, Konczyk DJ, Vivero MP, Kozakewich HP, Upton J, Fu X, Padwa BL, Mulliken JB, Warman ML, Greene AK. Somatic *PIK3CA* mutations are present in multiple tissues of facial infiltrating lipomatosis. *Pediatr Res.* 2017 Nov;82(5):850-854. PMID: 28665924.

17) Llado-Farulla M, Fosnot J, **Couto JA**, Chang B, Broach RB, Rios-Diaz A, Fowler JA, Aarons CB, Serletti JM, Butler PD. In search of workforce diversity? A program's successful approach. *Plast Reconstr Surg.* 2021 May 1;147(5):1229-1233. PMID: 33890911.

18) Naga HI, Azoury SC, Othman S, **Couto JA**, Levin LS, Butler PD, Kovach SJ. Short- and long-term outcomes following severe traumatic lower extremity reconstruction: the value of an orthoplastic limb salvage center to racially underserved communities. *Plast Reconstr Surg.* 2021 Sep 1;148(3):646-654. PMID: 34432698.

19) Schmidt B, El Zein S, **Couto JA**, Al-Ibraheemi A, Liang MG, Paltiel HJ, Anderson ME, Labow BI, Upton J, Fishman SJ, Mulliken JB, Greene AK, Warman ML, Kozakewich H. Verrucous venous malformation-subcutaneous variant. *Am J Dermatopathol*. 2021 Dec 1;43(12)e181-e184. PMID: 33899768.

20) Malphrus E, Desai A, Weiss ES, **Couto JA**, Broach RB, Butler PD. Understanding public perception of bra size. *J Plast Reconstr Aesthet Surg*. 2022 Nov;75(11):4197-4201. PMID: 36180339.

21) Bascone CM, McGraw JR, **Couto JA**, Sulkar RS, Broach RB, Butler PD, Kovach SJ. Exploring the financial, psychological, and operative factors associated with implant removal satisfaction in breast implant illness patients: a PRO BREAST-Q study. *Plast Reconstr Surg Glob Open*. 2023 Sep 25;11(9):e5273. PMID: 37753329.

Book Chapters

1) **Couto JA**, Greene AK. Extensive Cervicofacial Arteriovenous Malformation. In: Richter GT, Suen JY (ed). Head and Neck Vascular Anomalies: A Practical Case-Based Approach. (Chapter 6.4, pp. 334-338). Plural Publishing; San Diego, CA. 2015.

2) **Couto JA**, Greene AK. Vascular Anomalies. In: Lin SJ, Hijjawi JB (ed.). Plastic and Reconstructive Surgery Board Review: Pearls of Wisdom. 3rd ed. (Chapter 70, pp. 665-672). McGraw-Hill Education; New York, NY. 2016.

3) **Couto JA**, Fishman SJ, Greene AK. Vascular Anomalies. In: Hansen AR, Eichenwald EC, Stark AR, Martin CR (ed). Cloherty and Stark's Manual of Neonatal Care. 8th ed. (Chapter 66, pp. 978-985). Wolters Kluwer; Philadelphia, PA. 2016.

4) **Couto JA,** Greene AK. Section: Congenital Anomalies of the Head and Neck. Chapter 1: Vascular Anomalies. In: Orgill DP, Lin S, Austen WG, Azari K, Chun Y, Rogers-Vizena CR (ed.) Scientific American Plastic Surgery. Decker Intellectual Properties; Hamilton, Ont, Canada. 2016.

PRESENTATIONS

Oral

1) Capillary Malformation: Expression of Angiogenic and Vasculogenic Factors. 33rd Annual Forum of Research and Education. UPR Medical Sciences Campus. San Juan, PR: March 14, 2013.

2) Management of Problematic Infantile Hemangioma Using Intralesional Triamcinolone: Efficacy and Safety in 100 Infants. Plastic Surgery Research Council 59th Annual Meeting. New York City, NY: March 8, 2014.

3) Allelic and Possible Locus Heterogeneous Causes for Capillary Malformation. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 5, 2014.

4) *PIK3CA* Activating Mutations in Facial Infiltrating Lipomatosis. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 5, 2014.

5) Management of Primary and Secondary Lymphedema: Analysis of 225 Referrals to a Center. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 5, 2014.

6) Management of Problematic Infantile Hemangioma Using Intralesional Triamcinolone: Efficacy and Safety in 100 Infants. New England Society of Plastic and Reconstructive Surgeons 55th Annual Meeting. Sebasco Estates, ME: June 8, 2014.

7) Facial Wound Closure in 261 Children Using a 7-0 Absorbable Suture Dressing. Northeastern Society of Plastic Surgeons 31st Annual Meeting. Providence, RI: September 12, 2014.

8) Endothelial Cells from Capillary Malformations are Enriched for Somatic *GNAQ* Mutations and Aberrantly Express PDGFR-β. American Association of Plastic Surgeons 94th Annual Meeting. Scottsdale, AZ: April 14, 2015.

9) A Somatic *MAP3K3* Mutation is Associated with Verrucous Venous Malformation. Plastic Surgery Research Council 60th Annual Meeting. Seattle, WA: May 15, 2015.

10) Endothelial Cells from Capillary Malformations are Enriched for Somatic *GNAQ* Mutations and Aberrantly Express PDGFR-β. Plastic Surgery Research Council 60th Annual Meeting. Seattle, WA: May 15, 2015.

11) Pediatric Acral Arteriovenous Lesion: Clinical Presentation and Histopathology. New England Society of Plastic and Reconstructive Surgeons 56th Annual Meeting. Westbrook, CT: June 6, 2015.

12) A Somatic *MAP3K3* Mutation is Associated with Verrucous Venous Malformation. New England Society of Plastic and Reconstructive Surgeons 56th Annual Meeting. Westbrook, CT: June 6, 2015.

13) Endothelial Cells from Capillary Malformations are Enriched for Somatic *GNAQ* Mutations and Aberrantly Express PDGFR-β. New England Society of Plastic and Reconstructive Surgeons 56th Annual Meeting. Westbrook, CT: June 6, 2015.

14) Facial Infiltrating Lipomatosis Contains Somatic *PIK3CA* Mutations in Multiple Tissues. New England Society of Plastic and Reconstructive Surgeons 56th Annual Meeting. Westbrook, CT: June 6, 2015.

15) Management of Vascular Anomalies and Related Conditions Using Suction-Assisted Tissue Removal. Northeastern Society of Plastic Surgeons 32nd Annual Meeting. Philadelphia, PA: September 18, 2015.

16) Facial Infiltrating Lipomatosis Contains Somatic *PIK3CA* Mutations in Multiple Tissues. American Society of Plastic Surgeons: The Meeting. Boston, MA: October 17, 2015.

17) A Somatic *MAP3K3* Mutation is Associated with Verrucous Venous Malformation. International Society for the Study of Vascular Anomalies 21st International Workshop. Buenos Aires, Argentina: April 28, 2016.

18) Facial Infiltrating Lipomatosis Contains Somatic *PIK3CA* Mutations in Multiple Tissues. International Society for the Study of Vascular Anomalies 21st International Workshop. Buenos Aires, Argentina: April 28, 2016.

19) Somatic Activating Mutations in *GNAQ* and *GNA11* are Associated with Congenital Hemangioma. Northeastern Society of Plastic Surgeons 33rd Annual Meeting. Baltimore, MD: October 14, 2016.

Poster

1) Capillary Malformation: Expression of Angiogenic and Vasculogenic Factors. 3rd AEMPR Annual Research Symposium. Caguas, PR: December 6, 2012.

2) Allelic and Possible Locus Heterogeneous Causes for Capillary Malformations. Surgical Research Council's 10th Annual Symposium in Cellular, Molecular, and Clinical Research in Surgery. Boston, MA: March 25, 2014.

3) Capillary Malformation: Expression of Angiogenic and Vasculogenic Factors. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 4, 2014.

4) Expression of Follicle-Stimulating Hormone Receptor in Vascular Anomalies. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 4, 2014.

5) Management of Problematic Infantile Hemangioma Using Intralesional Triamcinolone: Efficacy and Safety in 100 Infants. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 4, 2014.

6) Obesity-Induced Lymphedema: Presentation, Diagnosis, and Management. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 4, 2014.

7) Operative Management of Vascular Anomalies and Related Conditions Using Liposuction. International Society for the Study of Vascular Anomalies 20th International Workshop. Melbourne, Australia: April 4, 2014.

8) Allelic and Possible Locus Heterogeneous Causes for Capillary Malformations. 3rd Annual Harvard Surgery Research Day Symposium, Harvard Medical School. Boston, MA: May 10, 2014.

9) Allelic and Possible Locus Heterogeneous Causes for Capillary Malformations. Dr. M. Judah Folkman Research Day, Boston Children's Hospital, Harvard Medical School. Boston, MA: May 14, 2014.

10) A Somatic *MAP3K3* Mutation is Associated with Verrucous Venous Malformation. Dr. M. Judah Folkman Research Day, Boston Children's Hospital, Harvard Medical School. Boston, MA: May 13, 2015.

11) Endothelial Cells from Capillary Malformations are Enriched for Somatic *GNAQ* Mutations and Aberrantly Express PDGFR-β. Dr. M. Judah Folkman Research Day, Boston Children's Hospital, Harvard Medical School. Boston, MA: May 13, 2015.

12) Facial Infiltrating Lipomatosis Contains Somatic *PIK3CA* Mutations in Multiple Tissues. New England Science Symposium, Harvard Medical School. Boston MA: April 3, 2016.

13) Pediatric Acral Arteriovenous Lesion: Clinical Presentation and Histopathology. International Society for the Study of Vascular Anomalies 21st International Workshop. Buenos Aires, Argentina: April 26, 2016.

14) Somatic *PIK3CA* Mutations are Present in Multiple Tissues of Facial Infiltrating Lipomatosis. Dr. M. Judah Folkman Research Day, Boston Children's Hospital, Harvard Medical School. Boston MA: May 4, 2016.