



Dr. Catherino joined the faculty at the Uniformed Services University after completing his Fellowship in Reproductive Endocrinology and Infertility at the National Institutes of Health. His research on uterine fibroids has attracted international attention, and his collaborative work has resulted in many peer-reviewed manuscripts that focus on the molecular mechanisms of leiomyoma development. He has also developed multiple in vitro model systems for rapidly testing novel therapeutics for uterine fibroids. Dr. Catherino is Board Certified in both Obstetrics and Gynecology and Reproductive Endocrinology and Infertility, and his care is sought out by patients within and beyond the United States. In addition to training residents and fellows, he also mentors many students interested in research. He is currently an Associate Professor with tenure and Research Director in the Department of Obstetrics and Gynecology at the Uniformed Services University.

**Recent Publications since 2010 (selected from over 50 peer-reviewed manuscripts):**

1. Taylor, J.E., Miller, B.T., Gray, K.D., Scott, R.T., Catherino, W.H., Segars, J.H. The mechanism responsible for the supraphysiologic gonadotropin surge in females treated with gonadotropin-releasing hormone (GnRH) agonist and primed with GnRH antagonist. *Fertility and Sterility* 2010;93:1668-75, 2010.
2. Joseph, D.S., Malik, M., Nurudeen, S., Catherino, W.H. Myometrial cells undergo fibrotic transformation under the influence of transforming growth factor beta 3. *Fertility and Sterility* 2010;93:1500-8.
3. Fujimoto, V.Y., Jain, T., Alvero, R., Nelson, L.M., Catherino, W.H., Olatinwo, M., Marsh, E.E., Broomfield, D., Taylor, H., Armstrong, A.Y. Proceedings from the conference on reproductive problems in women of color. *Fertility and Sterility* 2010;94:7-10.
4. Malik, M., Norian, J., McCarthy-Keith, D., Britten, J., Catherino, W.H. Why leiomyomas are called fibroids: the central role of extracellular matrix in symptomatic women. *Seminars in Reproductive Medicine* 2010;28:169-79, 2010.
5. Catherino, W.H. Insights and advances in uterine leiomyomas. *Seminars in Reproductive Medicine*;28:167-8, 2010.

6. Catherino, W.H., Malik, M., Driggers, P., Chappel, S., Segars, J., Davis, J. Novel, orally active selective progesterone receptor modulator CP8947 inhibits leiomyoma cell proliferation without adversely affecting endometrium or myometrium. *Journal of Steroid Biochemistry and Molecular Biology* 2010;122:279-86.
7. Catherino, W.H., Parrott, E., Segars, J. Proceedings from the NICHD conference on the uterine fibroid research update workshop. *Fertility and Sterility* 2011;95:9-12.
8. McCarthy-Keith, D.M., Malik, M., Britten, J., Segars, J., Catherino, W.H. Gonadotropin-releasing hormone agonist increases expression of osmotic response genes in leiomyoma cells. *Fertility and Sterility* 2011;95:2383-7.
9. Catherino, W.H. Stress relief to augment fertility: the pressure mounts. *Fertility and Sterility* 2011;95:2462-3.
10. Norian, J.M., Owen, C.M., Taboas, J., Korecki, C., Tuan, R., Malik, M., Catherino, W.H., Segars, J.H. Characterization of tissue biomechanics and mechanical signaling in uterine leiomyoma. *Matrix Biology* 2012;31:57-65.
11. Malik, M., Catherino, W.H. Development and validation of a three-dimensional in vitro model for uterine leiomyoma and patient-matched myometrium. *Fertility and Sterility* 2012;97:1287-93.
12. Levy, G., Hill, M.J., Zarek, S.M., Segars, J.H., Catherino, W.H. Leiomyoma: genetics, assisted reproduction, pregnancy and therapeutic advances. *Journal of Assisted Reproduction and Genetics* 2012, available electronically.
13. Wellons, M.F., Fujimoto, V.Y., Baker, V.L., Barrington, D.S., Broomfield, D., Catherino, W.H., Richard-Davis, G., Ryan, M., Thornton, K., Armstrong, A.Y. Race matters: a systemic review of racial/ethnic disparity in Society for Assisted Reproductive Technology reported outcomes. *Fertility and Sterility* 2012;98:406-9.
14. Britten, J.L., Malik, M., Levy, G., Mendoza, M., Catherino, W.H. Gonadotropin-releasing hormone(GnRH) agonist leuprolide acetate and GnRH antagonist cetrorelix acetate directly inhibit leiomyoma extracellular matrix production. *Fertility and Sterility* 2012, in press.
15. Gilden, M., Malik, M., Britten, J., Delgado, T., Levy, G., Catherino, W.H. Leiomyoma Fibrosis Inhibited by Liarozole, a Retinoic Acid Metabolic Blocking Agent. *Fertility and Sterility* 2012, in press.

### **Prior and Current Research Scholars**

1. Minnie Malik, Ph.D.
2. Paul Driggers, Ph.D.
3. Anitha Nair, M.D.
4. Jason Bromer, M.D.
5. Jason Parker, M.D.
6. Mark Payson, M.D.
7. John Norian, M.D.
8. Tatiana Sanses, M.D.
9. Desiree McCarthy-Keith, M.D.
10. John Moroney, M.D.
11. Doina Joseph, M.S.
12. Michael Bowens, M.P.H.
13. Megan Pittenger, M.D.
14. Tammy Mantzouris, M.D.
15. Candace Parker, M.D.
16. Kate Oliver, M.D.
17. Jacqueline Moore, M.D.
18. Claudia Massollo, M.D.
19. Dinchen Jardine, M.D.
20. Tanno Naur, B.S.
21. Salah Amjad, B.S.
22. Kathleen McDaniel, M.D.
23. Rebecca Jackson, M.D.
24. Shanicka Williams, M.D.
25. Rebecca Rogers, M.D.
26. Chantal Mayers, B.S.
27. Heather Deckert, B.S.
28. Brandon Mack, B.S.
29. Monica Pollard, B.S.
30. Janice Llanos-Velazquez, B.S.
31. Mirian Mendoza, B.S.
32. Nicole Ouzts, M.S.
33. Siti Nur Sarah Morris, B.S.
34. Thomas Clinch, B.S.
35. Nimisha Dhillon, B.S.

36. Julie Hanson, B.S.
37. Tiffany Cho, B.S.
38. Tanya Delgado, B.S.
39. Amy Tuttle
40. Matt Locastro
41. Melissa Gilden, B.S.
42. June Deng