

## **CRISTINA DE GUZMAN STRONG, PH.D.**

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## **EDUCATION**

1995            B.S., *magna cum laude*, Emory University, Atlanta, GA,  
2002            Ph.D., University of Alabama at Birmingham, Birmingham, AL

## **POSITIONS AND EMPLOYMENT**

1994-1995      Research Assistant, Department of Ophthalmology, Emory University, Atlanta, GA  
1999-2002      Graduate student, University of Alabama at Birmingham, Department of  
Microbiology, Birmingham, AL  
2003-2010      Post-doctoral fellow, National Human Genome Research Institute, Bethesda, MD  
2010-present   Assistant Professor, Division of Dermatology, Center for Pharmacogenomics,  
Department of Internal Medicine, Center for the Study of Itch, Washington  
University, St. Louis, MO

## **PROFESSIONAL MEMBERSHIPS**

Member        Society of Investigative Dermatology  
Member        Society of Investigative Dermatology Atopic Dermatitis Biomarkers Working Group

## **HONORS AND AWARDS**

2014-2016      NIH Loan Repayment Program Award – Pediatric Research  
2011-2013      NIH Loan Repayment Program Award – Pediatric Research  
2010            Faculty Diversity Scholar, Washington University  
2008            NIH Pathway to Independence Award (K99/R00)  
2008            Society of Investigative Dermatology Eugene Farber Award for Young Investigator  
Travel, Montagna Symposium, Gleneden Beach, OR  
2005            NHGRI Retreat Blue Ribbon Poster Award  
2002            Pfizer Scholar-in-Training Award, American Association of Cancer Research  
Conference, San Francisco, CA  
2001            First place, Sigma Xi Graduate Student Research Day  
1999-2002      Predoctoral fellowship, NIH Training Grant in Molecular and Viral Oncology  
1999            Honorable Mention, Ford Foundation Predoctoral Fellowship for Minorities

## **EDITORIAL RESPONSIBILITIES**

Ad-hoc reviewer *Journal of Investigative Dermatology*  
Ad-hoc reviewer *Journal of Allergy and Clinical Immunology*  
Ad-hoc reviewer *PLoS One*

## **REPRESENTATIVE SCIENTIFIC PUBLICATIONS**

1. Quiggle, A.M., Goodwin, Z.A., Marfatia, T.R., Kumar, M.G., Ciliberto, H., Bayliss, S.J., **de Guzman Strong, C.** (2015) Low filaggrin monomer repeats in African American pediatric patients with moderate to severe atopic dermatitis. *JAMA Derm.*, in press.
2. Khattri, S., Shemer, A., Rozenblit, M., Suarez-Farinas, M., Dhingra, N., Czarnowicki, T., Finney, R.L., Zheng, X., Xu, H., Cardinale, I., **de Guzman Strong, C.**, Gonzalez, J., Krueger, J.G. (2014) Cyclosporine in patients with atopic dermatitis modulates activated inflammatory pathways and reverses epidermal pathology. [\*J. Allergy Clin. Immunol.\* 133\(6\): 1626-34.](#)
3. Oh, I.Y., Albea, D.M., Goodwin, Z.A., Quiggle, A.M., Baker, B.P., Guggisberg, A.M., Geahlen, J.H., Kroner, G.M., **de Guzman Strong, C.** (2014) Regulation of the dynamic chromatin architecture of the Epidermal Differentiation Complex is mediated by a c-Jun/AP-1-modulated enhancer. [\*J. Invest. Dermatol.\* 134\(9\):2371-80.](#)
4. Matkovich, S.J., Edwards, J.R., Grossenheider, T.C., **de Guzman Strong, C.**, Dorn II, G.W. (2014) Epigenetic coordination of embryonic heart transcription by dynamically regulated lncRNAs. [\*Proc. Natl. Acad. Sci.\* 111\(33\):12264-9.](#)
5. Dalal, J. Roh, J.H., Maloney, S.E., Akuffo, A., Shah, S., Yuan, H., Wamsley, B., Jones, W.B., **de Guzman Strong, C.**, Holtzman, D., Heintz, N., Dougherty, J.D. (2013) Translational profiling of hypocretin neurons identifies candidate molecules for sleep regulation. [\*Genes and Development\* 27\(5\): 565-78.](#)
6. Suarez-Farinas, M., Dhingra, D., Gittler, J, Shemer, A., Cardinale, I., **de Guzman Strong, C.**, Krueger, J.G., Guttman-Yassky, E. (2013) Intrinsic atopic dermatitis (AD) shows similar Th2 and higher Th17 immune activation compared to extrinsic AD. [\*J. Allergy Clin. Immunol.\* 132\(2\): 361-70.](#)
7. Gittler, J.K., Shemer, A., Suarez-Farinas, M., Fuentes-Duculan, J., Gulewicz, K.J., Wang, C.Q.F., Mitsui, H., Cardinale, I., **de Guzman Strong, C.**, Krueger, J.G., Guttman-Yassky, E. (2012) Progressive activation of Th2/Th22 characterizes acute and chronic atopic dermatitis. [\*J. Allergy Clin. Immunol.\* 130\(6\): 1344-54.](#)
8. **de Guzman Strong, C.** and Cornelius, L.A. (2012) Preparing the next generation in academic medicine: recruiting and retaining the best. [\*J. Invest. Dermatol.\* 132 \(3 Pt 2\): 1018-25.](#) PMID: 22330268.
9. **de Guzman Strong, C.**, Conlan, S., Deming, C.B., Cheng, J, Sears, K.E., Segre, J.A. (2010) A milieu of regulatory elements in the epidermal differentiation complex syntenic block: implications for atopic dermatitis and psoriasis. [\*Hum. Mol. Genet.\* 19\(8\):1453-60.](#) PMID: 20089530.

10. **de Guzman Strong, C.** and Segre, J.A. (2008) Navigating the genome. [\*J. Cell Science\* 121 \(Pt 7\): 921-3](#). PMID: 18354081.
11. **de Guzman Strong, C.**, Wertz, P., Wang, C., Yang, F., Meltzer, P.S., Andl, T., Millar S.E., Ho, I-C., Pai, S-Y., Segre, J.A. (2006) Lipid defect underlies selective skin barrier impairment of an epidermal-specific deletion of Gata-3. [\*J. Cell Biology\* 175\(4\): 661-70](#). PMID: 17116754.
12. Kim, H-G., **de Guzman, C.G.**, Swindle, C.S., Cotta, C.V., Gartland, L., Scott, E., Klug, C.A. (2004) The ETS-family transcription factor, PU.1, is necessary for the maintenance of fetal liver hematopoietic stem cells. [\*Blood\* 104\(13\): 3894-3900](#). PMID: 15328162.
13. **de Guzman, C.G.**, Johnson, A., and Klug, C. A. (2003) The ETO domain is necessary for the developmental abnormalities associated with AML1-ETO expression in the hematopoietic stem cell compartment in vivo. [\*Blood Cells Mol. Dis.\* 30\(2\): 201-6](#). PMID: 12732184.
14. Zhang, Z., Cotta, C.V., Stephan, R.P., **de Guzman, C.G.**, Klug, C.A. (2003) Enforced expression of EBF in hematopoietic stem cells restricts lymphopoiesis to the B cell lineage. [\*EMBO J.\* 22\(18\):4759-69](#). PMID: 12970188.
15. **de Guzman, C.G.**, Warren, A.W., Zhang, Z., Gartland, L., Erickson, P., Drabkin, H., Hiebert, S., Klug, C.A. (2002) Hematopoietic stem cell expansion and distinct myeloid developmental abnormalities in a murine model of the AML1-ETO translocation. [\*Mol. Cell. Biol.\* 22\(15\):5506-5517](#). PMID: 12101243.
16. Nickerson, J.M., Mody, V., **de Guzman, C.G.**, Heron, K.A., Marciante, K., Boatright, J., Si, J.S., Lin, Z.Y. (1995) Ligand-binding properties of recombinant human IRBP. [Degenerative Diseases of the Retina](#), Plenum Press.