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## [Education & Training](#) **Yvonne Gruber Mica, PhD**

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### **Dissertation**

[Modeling Neural Crest Induction, Melanocyte Specification and Disease-Related Pigmentation Defects in hESCs and Patient-Specific iPSCs \(2013\)](#)

### **Mentor**

[Lorenz Studer, MD](#)

**End Year**

2013

**Education**

Wellesley College

**Publications**

[Fattahi F, Steinbeck JA, Kriks S, Tchieu J, Zimmer B, Kishinevsky S, Zeltner N, Mica Y, El-Nachef W, Zhao H, de Stanchina E, Gershon MD, Grikscheit TC, Chen S, Studer L. \(2016\) Deriving human ENS lineages for cell therapy and drug discovery in Hirschsprung disease. \*Nature\*. 531, 105-9. PMID: PMC4846424](#)

[Callahan SJ, Mica Y, Studer L. \(2016\) Feeder-free Derivation of Melanocytes from Human Pluripotent Stem Cells. \*J Vis Exp\*. 109.](#)

[Chambers S, Mica Y, Lee G, Studer L, Tomishima M. \(2013\) Dual-SMAD Inhibition/WNT Activation-Based Methods to Induce Neural Crest and Derivatives from Human Pluripotent Stem Cells. \*Methods Mol Biol\*.](#)

[Mica Y, Lee G, Chambers S, Tomishima M, Studer L. \(2013\) Modeling Neural Crest Induction, Melanocyte Specification, and Disease-Related Pigmentation Defects in hESCs and Patient-Specific iPSCs. \*Cell Rep\*. 3, 1140-1152.](#)

[Chambers S, Qi Y, Mica Y, Lee G, Zhang X, Niu L, Bilsland J, Cao L, Stevens E, Whiting P, Shi S, Studer L. \(2012\) Combined small-molecule inhibition accelerates developmental timing and converts human pluripotent stem cells into nociceptors. \*Nat Biotechnol\*. 30, 715-720.](#)

[Chambers S, Mica Y, Studer L, Tomishima M. \(2011\) Converting human pluripotent stem cells to neural tissue and neurons to model neurodegeneration. \*Methods Mol Biol\*. 793, 87-97.](#)

[Papapetrou E, Tomishima M, Chambers S, Mica Y, Reed E, Menon J, Tabar V, Mo Q, Studer L, Sadelain M. \(2009\) Stoichiometric and temporal requirements of Oct4, Sox2, Klf4, and c-Myc expression for efficient human iPSC induction and differentiation. \*Proc Natl Acad Sci U S A\*. 106, 12759-12764.](#)

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