

FACULTY CANDIDATE LECTURE



## The Generation of A Neuronal Protocadherin Cell-Surface Recognition Code by Stochastic Promoter Activation and RNA Splicing

### Daniele Canzio, PhD

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Dr. Daniele Canzio is a postdoctoral fellow in the laboratory of Tom Maniatis at Columbia University, studying the mechanisms of transcription and RNA splicing of the mammalian Protocadherin (Pcdh) gene cluster. Daniele did his undergraduate studies at UC Santa Barbara, where he discovered his love for Biochemical research while working under the guidance of Prof. Tom Bruice. He then went on to join the Narlikar Lab at UC San Francisco, where he focused his graduate research on integrating biochemical, biophysical and genetic tools to study the association of heterochromatin 1 protein (HP1) with H3K9-methylated chromatin to drive the assembly and spread of heterochromatin. Since joining the Maniatis Lab in 2013, Daniele has combined his graduate training in quantitative chromatin biology with his current postdoctoral training in genomics and neuroscience to make significant progress in the study of: (1) regulation of stochastic promoter choice by chromatin organization and antisense lncRNAs, (2) mechanisms of transcription of Pcdh genes, and (3) the role of RNA structures in the regulation of coupling transcription to splicing of Pcdh transcripts. Daniele has been awarded the Helen Hay Whitney Postdoctoral Fellowship and a K99/R00 NIH award, and his work has been published in journals such as Science, Nature, and Cell.

**Monday, February 26th | 10:00am**  
**Helen Diller, HD-160**

**Live Broadcast Available** 

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