SOPHIA TINTORI

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EDUCATION

University of North Carolina at Chapel Hill *2011-2017*
PhD, Biology
Advisors: Bob Goldstein and Jason Lieb (2011-2015), Bob Goldstein (2015-2017)
Dissertation: The Initiation of Transcription and Gastrulation in the *C. elegans* Embryo

Brown University *2004-2009*
BS with Honors, Biology
Thesis advisor: Casey Dunn

Gnomon School of Visual Effects *2017*
Course: Dynamic Effects 3D Animation

Duke University *2015*
Course: Documentary Production

Woods Hole Marine Biology Laboratory
Course: Embryology *2013*

Rhode Island School of Design
Course: Animation *2008*

SCIENTIFIC AWARDS

Damon Runyon Cancer Research Foundation *2019-2023*
Postdoctoral Research Fellowship

Jane Coffin Childs Memorial Fund *(declined)*
Postdoctoral Research Fellowship

National Institutes of Health *2015-2017*
Ruth L. Kirschstein Pre-Doctoral National Research Service Award

National Science Foundation *2012-2015*
Graduate Research Fellowship Program

Biological & Biomedical Sciences Program, UNC Chapel Hill *2011-2012*
Director's Award

PEER REVIEWED PUBLICATIONS & PREPRINTS

Tintori SC, Golden P, Goldstein, B. (2019). Differential Expression Gene Explorer (DrEdGE): A tool for generating interactive online data visualizations for statistical exploration of quantitative abundance datasets. BioRxiv (preprint), 618439. https://doi.org/10/1101/618439.

Tintori, SC (2018). Perspectives: Turning the microscope on power dynamics in the lab. Molecular Biology of the Cell 29(26), 3064-3066.

Tintori, SC, Osborne Nishimura, E, Golden, PT, Lieb, JD and Goldstein, B. (2016). A transcriptional lineage of early *C. elegans* development. Developmental Cell 38(4), 430-444.

Sullivan-Brown JL, Tandon P, Bird KE, Dickinson DJ, **Tintori SC**, Heppert JK, Meserve JH, Trogden KP, Orlowski SK, Conlon FL and Goldstein B. (2016). Identifying Regulators of Morphogenesis Common to Vertebrate Neural Tube Closure and *Caenorhabditis elegans* Gastrulation. 202(1):123-39.

Boothby TC, Tenlen JR, Smith FW, Wang JR, Patanella KA, Nishimura EO, **Tintori SC,** Li Q, Jones CD, Yandell M, Messina DN, Glasscock J and Goldstein B. (2015). Evidence for extensive horizontal gene transfer from the draft genome of a tardigrade. Proc Natl Acad Sci U S A. 2015 Dec 29;112(52):15976-81.

Siebert S, Robinson MD, **Tintori SC**, Goetz F, Helm RR, Smith SA, Shaner N, Haddock SH and Dunn CW. (2011). Differential gene expression in the siphonophore *Nanomia bijuga* (Cnidaria) assessed with multiple next-generation sequencing workflows. PLoS One; 6(7):e22953.

FILM AND VIDEO Co-director and animator for STATION 15. Writer, director and animator for all others. All films available either at www.sophiatintori.com or by request.

Film Series on Gender and Sex Variation (*2018*)
A 6-film educational series about sex and gender diversity for the Campion Fund

STATION 15 (*2017*)
Short documentary commissioned by Smithsonian and Louisiana Endowment for the Humanities

Proprioception and Virtual Reality for Fruit Flies (*2017*)
For John Tuthill's Beckman Young Investigators Award application

Eduard Buchner and the Death of Vitalism (*2016*)
For Eric Lander's Introduction to Biology online course at MIT

Featured in NYTimes article about CreatureCast http://nyti.ms/2lRHZ8M (*2013*)

Hollow Trees (*2011*), **Tangled String** (*2010*), **Footage from the Deep** (*2010*), **Picky Females** (*2010*) **Multicellularity** (*2009*), **Squid Iridescence** (*2009*)
Featured on The New York Times, NPR's Science Friday, The Loom, Science 360, several pop-culture blogs, and screened at several film festivals.

ADDITIONAL SCIENCE COMMUNICATION

Trinity University *2018*
Guest science lecturer — Creative Non-Fiction

Interactive Data Visualization Tool *2016-2019*
Designed tool for exploring single cell RNA-seq data from Tintori et al., 2016 & 2019

New York Hall of Science *2012*
Guest Lecturer, Workshop Leader — Animation for Nanos

Mothers News *2011-2015*
Science Columnist