

Ilana Goldowitz, PhD

(585) 413-7825

www.strigascientific.com

ilana@strigascientific.com

Creative and experienced scientific writer with happy clients in the pharmaceutical, agricultural, biotech, and publishing/media industries

Current Position

Founder and Principal Writer, Striga Scientific, LLC

April 2016-Present

- Providing writing and editing services for clients in life science-based industries, including medicine, biotech, agriculture, and food/water safety
- Experience in planning, designing and writing professional educational materials, medical news articles, web content/blogs, videos, slide decks, posters, and public education/outreach materials
- Experience in scientific manuscript editing, data presentation, and experimental design

Rochester, NY, USA

Education

Ph.D. Chemical Biology, Harvard University. April 2015

Dissertation advisor: Professor Matthias Marti, Dept. Of Immunology and Infectious Diseases, Harvard School of Public Health

Dissertation title: *Plasmodium's Crossroads: Deciphering the Molecular Pathway that Leads to Malaria Transmission.*

B.S. Plant Sciences, Cornell University. Magna cum laude, January 2008

Past Professional Experience

Medical Learning Specialist – Eagle Productivity Solutions, Rochester, NY

July 2019-Sept 2020

- **Built and supervised a small team** of medical writers and illustrators
- Planned, designed, and supervised the creation of top-quality slide decks, web-based learning modules, videos, and posters for pharmaceutical and biotech clients working in a variety of therapeutic areas
- Designed, wrote, and edited courses, including travel to client sites to **understand client goals** for employee training
- Worked closely with subject matter experts and promotional review committees to develop and finalize employee training materials for clients
- Created marketing materials for our medical writing services; contributed to proposal writing and presales functions

Rochester, NY, USA

Medical Writer – Eagle Productivity Solutions, Rochester, NY

April 2018-July 2019

- **Designed and created** web-based courses, slide decks, print and computer learning modules, video scripts, and posters on medical and scientific topics
- Target audiences included Medical Affairs, Sales, Research and Development, and Patient Services employees at client companies

Rochester, NY, USA

Research Associate - Harvard School of Public Health

April-July 2015

Ph.D. Candidate - Marti Laboratory, Immunology and Infectious Diseases

August 2009-March 2015

- Dissertation committee members: Professors Jon Clardy, Dyann Wirth, Barbara Burleigh, and Alan Saghatelian (Harvard School of Public Health and Harvard Medical School)
- Designed, conducted, analyzed, and published original research into **malaria transmission**.
- Co-authored five articles in *Cell Host & Microbe*, *Nature Protocols*, and others. Assisted with grant writing and manuscript editing
- Co-identified a cell-cell communication phenomenon in malaria parasites
- Collaborated with Genzyme Corporation scientists to carry out preclinical experiments for a **potential drug lead** that inhibits a malaria enzyme
- Led a collaboration between University of South Florida and Harvard laboratories to carry out a genetic screen in malaria parasites
- Created scientific figures and documents using Word, Powerpoint, Adobe Photoshop, Adobe Illustrator, GraphPad Prism, and Lasergene

Boston, MA and Tampa, FL, USA

Intern - Native Seeds/SEARCH Seed Bank and Farm

December 2008-May 2009

- Contributed to nonprofit's mission of safeguarding **crop genetic diversity** on farms; assisted with farmer education and public **outreach events**

Tucson, AZ, USA

On-Farm Intern - Herb Pharm, Inc.

June-August 2008

- Full range of production duties at a leading **herbal** extracts company and its 85-acre **organic farm**

Williams, OR, USA

Technician - Sorrells Laboratory, Cornell University

January-May 2008

Research Assistant - Saha Laboratory, Samuel Roberts Noble Foundation.

June-August 2005

- Assisted with grain **crop genetics research**; co-authored an article in *Field Crops Research*

Ithaca, NY and Ardmore, OK, USA

Research Assistant - Thaler Laboratory, Cornell University

May-August 2007

- Contributed to farm and laboratory research on defensive **biochemical responses** to insect feeding in cultivated and wild plants

Ithaca, NY, USA

Research Assistant - Arnot Forest, Cornell University

June-December 2006

- Contributed to research on **farmland ecology**; co-authored an article in *Small Farm Quarterly Magazine*

Van Etten, NY, USA

Publications

PEER-REVIEWED ARTICLES

Brancucci, N.M.B.*, **Goldowitz, I.***, Buchholz, K., Werling, K., and Marti, M. An assay to probe *Plasmodium falciparum* growth, transmission stage formation and early gametocyte development. *Nature Protocols* **10** (8), 2015

***Co-first authors**

Mantel, P.Y., Hoang, A.N.*, **Goldowitz, I.***, Potashnikova, D.*, Hamza, B., Vorobjev, I., Ghiran, I., Toner, M., Irimia, D., Ivanov, A.R., Barteneva, N., and Marti, M. Malaria-infected erythrocyte-derived microvesicles mediate cellular communication within the parasite population and with

the host immune system. *Cell Host & Microbe* **13** (5), 2013.

***Co-second authors**

Tao, D., Ubaida-Mohien, C., Mathias, D.K., King, J.G., Pastrana-Mena, R., Tripathi, A., **Goldowitz, I.**, Graham, D.R., Moss, E., Marti, M., and Dinglasan, R.R. Sex-partitioning of the *Plasmodium falciparum* stage V gametocyte proteome provides insight into falciparum-specific cell biology. *Mol Cell Proteomics* **13** (10), 2014.

Coleman, B.I., Skillman, K.M., Jiang, R.H., Childs, L.M., Altenhofen, L.M., Ganter, M., Leung, Y., **Goldowitz, I.**, Kafsack, B.F., Marti, M., Llinas, M., Buckee, C.O., and Duraisingh, M.T. A *Plasmodium falciparum* histone deacetylase regulates antigenic variation and gametocyte conversion. *Cell Host Microbe* **16** (2), 2014.

Zeid, M., Yu, J., **Goldowitz, I.**, Denton, M. E., Costich, D. E. , Jayasuriya, C. T., Saha, M. C., Elshire, R., Benschler, D., Brescghello, F., Munkvold, J., Varshney, R. K., Belay, G., & Sorrells, M. E. Cross-amplification of EST derived markers among 16 grass species. *Field Crops Research* **116** (1), 2010.

SAMPLE ARTICLES WRITTEN FOR CLIENTS

Medicine, Biotech, and Pharmaceuticals

[An Investigational Drug May Help Treat Multidrug-Resistant HIV](#)

[Managing The Rise In Hypertension Among Pregnant Women](#)

[Starting Early With Microbiome Health](#)

[Clostridioides Difficile Infection And The Microbiome](#)

[Using Viruses To Outsmart Antibiotic-Resistant Bacteria](#)

[Gene Therapies In The Pipeline For Hereditary Eye Diseases](#)

[Non-Guideline-Adherent Cancer Care for HIV-Positive Women May Lower Survival](#)

[PCPs Under-Test for Celiac Disease, Survey Suggests](#)

Food, Water, and Supplement Safety and Testing

[How to Communicate Legionella Risk to Customers and the Community](#)

[Understanding Microbiological Method Validation, Verification, and Fitness for Purpose](#)

[Good Laboratory Practices vs. Good Manufacturing Practices: What's the Difference?](#)

[Up-And-Coming Alternative Sweeteners for Reduced-Sugar Foods](#)

[Sports Supplement Purity: Choosing a Certification Program](#)

[Plant-Based Vitamin Sources: Challenges and Innovations](#)

Agriculture and Gardening

[Mosaic Virus On Beets](#)

EXTENSION AND TRADE MAGAZINE ARTICLES

Goldowitz Jimenez, I. "Autumn crocus, colchicine, and the FDA." *Plant Healer Magazine*, Spring 2017.

Goff, G., **Goldowitz, I.**, Black, M., and Taber, R. "Frost seeding: an old technique for new reasons." *Small Farm Quarterly Magazine*, Winter 2010.

Goldowitz, I., Goff, G., and Curtis, P. Abstract: Assessing site preparation techniques for establishment of legumes in grasslands via frost seeding. *The Wildlife Society NYS Newsletter*, 2007.

BOOK CHAPTER

Goldowitz, I. and Goldowitz, J. Phytoremediation of lead-contaminated soil in the urban residential environment using seed mustard. In: *Contaminated Soils, Sediments, and Water Volume 10: Successes and Challenges*. Ed. Calabrese, E.J., Kostecki, P.T., Dragun, J. 2006. Springer Science and Business Media.

SCHOLARLY REVIEW ARTICLE

Ankarklev, J., Brancucci, N.M., **Goldowitz, I.**, Mantel, P.Y., and Marti, M. Sex: how malaria parasites get turned on. *Current Biology* **24** (9), 2014.

Presentations, Honors and Awards

- First Place Oral Presentation Award at ParaINsites 2014, Boston, MA
- Oral presentation at Molecular Parasitology Meeting 2014, Woods Hole, MA
- Oral presentation at Konstanz Chemical Biology Retreat 2013, Konstanz, Germany
- My essay, "Resources for Resilient Agriculture," received a commendation in the Future of Humanity Institute's Food System Shock essay contest, April 2016.
- My co-authored paper (Mantel et al. 2013) was selected for a Cell Press Best of 2013 reprint book and was Cell Host & Microbe's most accessed article for three months.

Teaching and Outreach Activities

Outreach Presenter - USA Science and Engineering Festival, Washington, DC 2012 and 2014

- Planned and presented microbiology activities at a **science festival** for grades K-7 with the Harvard Microbial Science Initiative. Co-wrote educational materials for distribution to teachers and students

Washington, DC, USA

Teaching Fellow - Molecules of Life course, Harvard University September-December 2010

- Taught an undergraduate biochemistry class section. Wrote **exam and homework problems**; contributed to planning class sessions

Cambridge, MA, USA

Bioremediation Project June-August 2003

- **Citizen science** project testing a method to **bioremediate** lead-contaminated soil in collaboration with the Northeast Neighborhood Association. Co-authored a chapter in an environmental science book.

Rochester, NY, USA