



2005-8

*Dartmouth Medical School*

Hanover, NH

Department of Medicine/Division of Hematology/Oncology

- Investigated chromatin structure and regulation of human beta-globin gene expression.
- Conducted field studies of laboratory investigation to develop a theory of scientific practice in the context of literary criticism.
- Published five articles on science and society and two peer-reviewed scientific journal papers.
- Spoke at an oral session at the American Society of Hematology Convention.
- Wrote two National Human Genome Research Institute grants.
- Conducted and managed research on the mechanism of transcription factor binding in a molecular biology laboratory as part of an effective cross functional team. I used chromatin immunoprecipitation assays to determine the binding activity of the transcription factor involved in hematopoiesis. This research resulted in two publications and a talk at the American Society of Hematology Convention.

## SKILLS

Clinical and scientific literature reviews, Topic Based authoring in DITA/XML using Minimalism, CCMS, XMetaL, unstructured and structured Adobe FrameMaker, Adobe Acrobat, Adobe Photoshop, Adobe Illustrator, InDesign, Visio, SnagIt, MS Paint, MS Word, MS PowerPoint

Proficiency in various immunology, molecular biology and biochemistry techniques:

Cell/Tissue Culture, Transformations, Transfections, DNA/oligo quantification, Cloning, Subcloning, PCR, Gene amplification, DNA Sequencing, Gel electrophoresis, Plasmid DNA and Genomic DNA purification, DNA ligation and quantification, Chromatin Immunoprecipitation assays, qPCR, Southern blotting, Genotyping, Flow cytometry, Western blotting, Recombinase Mediated Cassette Exchange, ELISA, Chromatin Immunoprecipitation Sequencing, Site-directed Mutagenesis, DNase Assays, HPLC, siRNA techniques, High-throughput genome sequencing

## PROFESSIONAL EXPERIENCE

**Senior Technical Writer**

May 2019-October 2020

*Talis Biomedical Corporation*

Menlo Park, CA

- Created Quick Reference Instructions, Instructions for Use, Package Inserts, and User Guides for Talis suite of In vitro diagnostic products, including Talis One COVID-19 Assay for FDA Emergency Use Authorization and Talis One Instrument.
- Managed documentation team including consultant technical writer and graphic designer to deliver accurate and concise high-quality documentation for that met required timelines.
- Developed documentation infrastructure for Talis.
- Worked with Assay Development, Quality, Regulatory and Engineering to enable well-organized reviews, assemble feedback and implement revisions.
- Set up document version control system with FDA compliance that led to a system of controlled versioning of and centralized system of storage for documents.
- Created Style Guides for the documents I prepared.

**Technical Writer**

May 2018-September 2018

*Applied Materials*

Santa Clara, CA

- Acted as Project Lead for the Preventative Maintenance Service Agreement pilot study.
- Used Microsoft Excel to write Checklists and Procedures for Preventative Maintenance Sym3 Etch Semiconductor tools.
- Interfaced with SMEs such as Engineers and Project Management to verify accuracy and

- safety of checklists and Procedures.
- Involved in company-wide XML/DITA implementation.

**Technical Writer**

January 2018-March 2018

*Johnson & Johnson*

- Wrote regulatory compliance materials for vision management instruments using unstructured Adobe FrameMaker 2017.

**Technical Writer**

July 2017-Dec 2017

*Thermo Fisher Scientific*

Fremont, CA

- Created, formatted, revised, edited and finalized GHS Inserts, Instructions for Use, Standard Operating Procedures, Assay Specification Sheets, and Safety Data Sheets for Cascadion CE-IVD Product Launch in 2018 supporting clinical assays.

**Technical/Regulatory Writer**

March 2017-July 2017

*Kite Pharma*

- Edited, revised, and provided medical/scientific content for manuscripts on CAR T-cell therapy and cancer immunotherapies, submitted to *Nature Medicine*.
- Created and wrote pre-clinical study reports from CRO data.

**Technical Writer**

December 2014-March 2017

*Cepheid*

Sunnyvale, CA

- Wrote US-IVD, CE-IVD, RUO documents and FDA regulatory submissions, label updates, package inserts, user manuals, and procedures for Cepheid suite of products and product launches for Technical Publications team with cross-functional collaboration with Regulatory, Marketing, Clinical Affairs, Engineering, Virology, Oncology, Research and Development and Product Management under FDA and CE guidance.
- Project manager for Cepheid product launches on lifecycle documentation.
- Proofread, circulated, edited, assembled, and inspected product submissions.
- Wrote user manual for GeneXpert Dx Instrument Manual by transferring legacy content in FrameMaker into XML (XMetaL).
- Singlehandedly implemented XMetaL software suite for Technical Publications team to enable documentation publishing on phone for GeneXpert Omni product launch.
- Instrumental on the finalization of the urgently required MTB/RIF package insert after speedy FDA clearance.
- Produced Cepheid competitors' technologies market report for distribution to Global Marketing Franchise Leaders.
- Performed usability testing on pre-market Oncology assay and implementing usability studies on Cepheid molecular assays.
- Created GeneXpert Omni User Manual in XML for mobile device publication.
- Used Adobe FrameMaker, Photoshop and Illustrator as desktop publishing software.
- Used Agile to electronically manage documents.
- Received two Make It Happen performance commendations from Marketing and Technical Publications management for XMetaL team training.
- Received Commitment to Action award for performance on the Bladder Cancer CE-IVD product launch that required Photoshop to implement graphics.
- Training in Adobe Illustrator and Adobe Photoshop and applying learning to documentation projects.

**Technical Writer** January 2014-October 2014  
*Thermo Fisher Scientific/Life Technologies* South San Francisco, CA

- Wrote user manuals, product inserts and quick reference cards on Ion Torrent products using XML/DITA. Wrote library prep user manuals for the Ion Proton and Ion Personal Genome Machine.
- Wrote documentation using topic-based structured authoring.
- Used Agile to electronically manage documents.

**Technical Writer** June 2013-September 2013  
*Hospira, Inc* San Jose, CA

- Developed technical service manuals for the latest medical device product launches.
- Used information from various subject matter experts ranging from Mechanical and Systems Engineering, Software Engineering, Electrical Engineering to Regulatory and updated product manuals for launches.
- Became expert at unstructured Adobe FrameMaker to write documentation on time.

**Sr. Technical Writer** August 2012-May 2013  
*Affymetrix, Inc* Santa Clara, CA

- Worked with Research and Development, Quality Assurance, and Marketing teams to write end-user documentation, reference cards and brochures for launches around OncoScan, Cytoscan Dx, Axiom 384 and Axiom Target Split products.
- Wrote Standard Operating Procedures surrounding technical publications processes.
- Solved document management issues that enabled launching on time.
- Assisted with 510K FDA regulatory submission for Cytogenetics Division.
- Wrote technical documentation for Nexus for OncoScan software using InDesign.

**Technical Writer** December 2011-August 2012  
*Amicrobe* Pasadena, CA

- Wrote technical white papers, NIH and DOD grants on antimicrobials.
- Conducted primary analytical research on cationic antimicrobials to gain knowledge on subjects.

**Staff Research Associate** December 2010-August 2011  
*University of California, Los Angeles* Los Angeles, CA

- Worked on molecular biology project involving regulation of adenoviral genes, performing ChIP, ChIP-seq and other experimental techniques.
- Took courses on statistics and statistical analysis at the Luskin School of Public Policy

**Lecturer** August 2008-September 2010  
*Santa Clara University* Santa Clara, CA

- Taught Composition and Rhetoric to undergraduates in a course entitled "Science, Ethics and Society."

**Research Specialist** September 2004-December 2004  
*The Scripps Research Institute* La Jolla, CA

- Performed research on the molecular cloning and expression of genes involved in synthesis and degradation of lysophosphatidic acid, LPA, a molecule important for neural development.

## **PUBLICATIONS: Books**

**Advancing Healthcare Through Personalized Medicine**, Second Edition  
Springer Nature, under contract, upcoming in 2021

**Advancing Healthcare Through Personalized Medicine**, CRC Press/Taylor & Francis, March 12, 2017.

**Science, Cultural Values, and Ethics**, Science in Society series, Common Ground Publishing, April 2013.

**Molecular Biology in Narrative Form: A Study of the Experimental Trajectory of Science**, Volume 64 in the Berkeley Insights in Linguistics and Semiotics Series, Peter Lang Publishing, October 2006.

## **PUBLICATIONS: Peer-Reviewed Journal Articles**

**“Challenges for chimeric antigen receptor T cell therapies in the clinical setting: mechanisms of resistance in non-responders”**

*Biomedical Journal of Scientific and Technical Research*, February 2020

**“Clinical Care of CAR T-cell Patients and Managing immune-Related Adverse Effects in the Ambulatory and Hospitalized Setting: A Review”**

With Deepak Asudani MD, MPH and Caitlin Costello MD

*Future Oncology*, December 2019.

**“Review of Therapeutic Approaches for B-Cell Malignancies with Immune Checkpoint Blockade and Chimeric Antigen Receptor T-Cell Therapies: Development, Benefits, and Limitations”**

*Journal of Clinical Investigation and Studies*, 2019, Vol. 2, pp. 1-6.

**“Personalized Medicine: Paradigm Shift or Revolution”**

*Genetics in Medicine*, Official Journal of the American College of Genetics, Published online in November 2018

**“Improving Patient Medication Adherence by Adopting Minimalist Standards for Pharmaceutical and Medical Device Package Inserts”**

*Journal of Technical Writing and Communication*, submitted.

**“Contested Boundaries: How Scientists Deal with Uncertainty and Ambiguity in Language”**

*in Language as a Scientific Tool: Shaping Scientific Language Across Time and National Tradition*; Edited by Miles MacLeod, Rocio G Sumillera, Jan Surman, and Ekaterina Smirnova, 2016, Routledge Studies in Cultural History, pp. 74-88.

**“ ‘Whence Social Determinants of Health?’: Effective Personalized Medicine and the 2010 Affordable Care Act,”**

*Journal of Clinical Research and Bioethics*, 2012, S-5.

**“Narratives of Science: Literary Theory and Discovery in Molecular Biology,”**

in C.C. Barfoot and Valeria Tinkler (eds),

*Restoring the Mystery to the Rainbow: Literature’s Reflections on Science*, DQR Studies in

*Literature*, 78: 429-447.

**“ ‘Nanoselves:’ NBIC and the Culture of Convergence,”**

*Bulletin of Science, Technology and Society*, 30:2 (2010): 119-129.

**“Making Science Accessible: A Semiotics of Scientific Communication,”**

with Christopher H. Lowrey, M.D. *Biosemiotics*, 1 (2008): 253-269.

**“Genomics, social formations and subjectivity,”** in Paul Atkinson, Peter Glasner and Helen Greenslade (eds.) *New Genetics, New Identities*, London: Routledge Press (2007): 178-191.

**“Targeting GATA-1 to binding sites in nuclear chromatin,”**

*Blood Cells, Molecules and Diseases Abstract*, 38(2007).

**“Effect of Lead and Cadmium on Erythroid Differentiation in GATA-1 Dependent Gene Expression,”** *Blood Cells, Molecules and Diseases*, 37(2006):164-172.

#### CONFERENCES/PRESENTATIONS/INVITED TALKS

**“Advancing Healthcare Through Personalized Medicine”**

2018 6<sup>th</sup> Annual LocalLit Fair, Featured Title, Martin Luther King Library, San Jose, CA

**“Innovative Tools and Ingenious Systems: ELSI Learned from Writing my Book on Personalized Medicine”**

2017 4th Annual ELSI Congress, Jackson Laboratories, Farmington, CT.

**“Improving Patient Medication Adherence by Adopting Minimalist Standards for Package Inserts”**

2016 Pharma and Medical Device Labeling Conference, San Mateo, CA.

**“Genomic Variation and Cancer: The Ethical Dimensions of Personalized Medicine.”**

2010 Genetics and Ethics in the 21<sup>st</sup> Century Conference: Genomic Diversity and Health Disparities in Denver, CO

**“Advancing Stem Cell Research Efforts for Social Benefit.”**

2010 Stem Cell World Congress in San Francisco, CA.

**“Signs and the Generation of Scientific Knowledge in the Laboratory.”**

2008 Semiotic Society of America conference in Houston, Texas.

**“Scientific Practice in the Context of Literary Paradigms.”**

2007 Society for Philosophy of Science in Practice Conference at University of Twente, Twente, Netherlands.

**“Narrative Approaches to Science.”**

2007 International Conference on Narrative at Washington, D.C.

**“Specificity Protein 1 Consensus Binding Sequences Flank Many Functional GATA-1 Binding Sites and are Sufficient to Allow GATA-1 Binding to a WGATAR sequence in**

**Nuclear Chromatin.”**

2006 American Society for Hematology Convention in Orlando, Florida.

**“Integrating Literary Theory and Biomedicine: New Conceptual Approaches.”**

Invited speaker for the 2006 Department of Philosophy colloquium  
University of California, Santa Cruz

**“The Effects of Genomics on Social Formations and Subjectivity.”**

2004 International Centre for the Economic and Social Aspects of Genomics Conference  
at the Royal Society, London, England.