

Santana M. Lardo

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EDUCATION

2018 **B.S., Biology**, University of Pittsburgh at Johnstown
Minor in Philosophy, University of Pittsburgh at Johnstown

CURRENT POSITION

2018 – Present **Research Specialist II**
Advisor: Dr. Sarah J. Hainer. Department of Biological Sciences,
University of Pittsburgh.
Assessing the role of FACT in ES cell pluripotency.
Optimize CUT&RUN technology.
Apply this profiling technique to collaborations including:
*Examining human patient colon cancer biopsies and IBD; Examining toxo
parasites and their life cycle; Mapping the DNA enhancer landscape in
dissected mouse and human RPE; Confirming pathSTORM findings on a
molecular level; Assessing cell migration and identifying transcriptional
targets of MKL; Examining carcinogen treated epithelial cells and the
effect of NRF2 in the genome; Profiling protein localization on chromatin
in early cardiac macrophage cells; Examining localization of HIRA and
H3.3 in ATRX-modeled cell lines; Assessing OCT4 enriched DNA and
factor binding efficiency; Examining ADLD disease in mouse fibroblasts
and its effect on LaminB1 in the genome.*

PREVIOUS POSITIONS

2016 – 2018 **Undergraduate Research Assistant**
Advisor: Dr. Jill Henning. Department of Biology, University of Pittsburgh
at Johnstown.
Cellular Biology, Tick and Lime Disease research project.

PUBLICATIONS

J Xu, H Ma, H Ma, W Jiang, M Duan, S Zhao, C Gao, E-R Hahm, **SM Lardo**, K Troy, M Sun, R
Pai, DB Stolz, S Singh, RE Brand, DJ Hartman, J Hu, SJ Hainer*, Y Liu*. Super-resolution
imaging reveals the evolution of higher-order chromatin folding in early carcinogenesis.
Nature Communications, 2020 April 20; 11(1): 1899

*denotes co-corresponding authors.

MENTORING EXPERIENCE

- Braulio Bonilla, Post-Doc, Jan 2021 – Present
Cell Culture, Genomic DNA extraction

- Emily Brown, Research Specialist II, Aug 2020 – Oct 2020
CUT&RUN, Cell culture, Miraprep, Genomic DNA extraction
- Rody Kingston, First year rotation student, Aug 2020 – Oct 2020
CUT&RUN, Cell culture
- Kris Troy, Research Specialist II, January 2020 – March 2020
CUT&RUN
- Kayla Komondor, First year rotation student, Feb 2020 – April 2020
CUT&RUN, Cell culture
- Sanchirmaa Namjilsuren, First year rotation student, Feb 2020 – April 2020
CUT&RUN, Cell culture, Miraprep, Genomic DNA extraction
- Mitch Lesko, First year rotation student, Aug 2019 – Nov 2019
CUT&RUN, Cell culture
- Sarah Tripplehorn, First year rotation student, Feb 2019 – April 2019
Cell culture
- Alex Francette, First year rotation student, Feb 2019 – April 2019
CUT&RUN, Cell culture
- Shunran Zhang, First year rotation student, Nov 2018 – Feb 2019
CUT&RUN, Cell culture
- Benjamin Patty, First year rotation student, Nov 2018 – Feb 2019
CUT&RUN, Cell culture

TECHNICAL EXPERIENCE

- Cell culture
- CRISPR/Cas cell line targeting
- Genomic DNA extraction
- PCR
- Restriction digest
- DNA Agarose gel
- Bacterial culturing
- Miniprep/Maxiprep/Miraprep
- CUT&RUN
- Unix applications for deep sequencing data analysis
- MS software suite

VOLUNTEER/LEADERSHIP EXPERIENCE

- 2016 – 2018 **Judiciary Hearing Board**, University of Pittsburgh at Johnstown.
- 2015 – 2018 **Academic Integrity Board**, University of Pittsburgh at Johnstown.
Chair.
- 2015 – 2018 **Alpha Phi Omega**, University of Pittsburgh at Johnstown.
Community Service Fraternity., Fundraising Chair.
- 2013 – 2018 **Black Action Society**, University of Pittsburgh at Johnstown.
Vice President, Chair of Fundraising and Community Service Committee.
- 2013 – 2018 **Student Government Association**, University of Pittsburgh at
Johnstown.
Treasurer, Chair of Allocations Committee.
- 2010 – 2017 **Resident Summer Girls Camp Counselor.**, Ellwood City, PA
*Supervised & planned activities for ages 6-17. Specialized in supervision
and training of all counselors in training ages 15-18.*