

JACQUELINE A. DE LORA, PHD.

CURRICULUM VITAE

CURRENT POSITION: POSTDOCTORAL RESEARCH SCHOLARSHIP HOLDER FROM THE MAX PLANCK SOCIETY, CELLULAR BIOPHYSICS DEPARTMENT, LABORATORY OF PROF. DR. JOACHIM P. SPATZ

CONTACT INFORMATION

Physical Addresses



Altvaterstraße 9
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Phone



+49 173 626 2992

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LANGUAGES

Common European Framework of Reference

English Native

Spanish

Understanding B2

Speaking B1

Writing B1

German

Understanding A1

Speaking A1

Writing A1

SKILLS LEVEL

Programming Languages

MatLab Intermediate

Python Beginner

R Advanced

Adobe Creative Cloud

Acrobat DC Expert

Animate Intermediate

Audition Beginner

Illustrator Expert

Other Relevant Software

Image J/FIJI Expert

Microsoft Office Expert

Prism Expert

SnapGene Intermediate

EDUCATION

Dates	23/08/2011 - 05/07/2018
Qualification Held	Doctor of Philosophy (PhD)
Thesis Title	Developing Droplet Based 3D Cell Culture Methods to Enable Investigations of the Chemical Tumor Microenvironment
Metrics	181 Downloads, 273 Views
Organization	University of New Mexico (UNM)- Biomedical Sciences Graduate Program and the Center for Biomedical Engineering
Dates	21/08/2005 - 21/05/2010
Qualifications Held	Bachelor of Science (BS) Biology Bachelor of Arts (BA) Chemistry
Organization	University of New Mexico

PREDOCTORAL FELLOWSHIPS & FUNDING

Dates	01/01/2015 - 30/06/2017
Fellowship Award	NIH Ruth Kirschstein National Research Service Award for Individual Predoctoral Fellowships to Promote Diversity in Health-Related Research (F31)
Project Title	Cellular Responses to pH and oxygen microenvironments in a new 3D tumor model
Organization	University of New Mexico
Dates	01/08/2012 - 31/07/2014
Fellowship Award	Cancer and Nanoscience Training Center Fellowship
Organization	University of New Mexico, School of Medicine and School of Engineering
Dates	01/08/2011 - 31/07/2012
Fellowship Award	Initiative to Maximize Student Diversity- NIH Graduate Research Fellowship
Organization	University of New Mexico, School of Medicine
Dates	15/06/2010 - 31/07/2011
Fellowship Award	NIH- Post-baccalaureate Research Education Program Fellowship
Organization	University of New Mexico, Department of Biology

POSTDOCTORAL EXPERIENCES

- 01/2020 - Current Postdoctoral Researcher | Cellular Biophysics Department | Max Planck Institute for Medical Research | Mentor- Prof. Dr. Joachim Spatz
- 01/2021 - Current Early Career Editor | Molecular Biology of the Cell
- 06/2019 - 07/2019 Guest Postdoctoral Researcher | Chemistry and Biochemistry Department | Northern Arizona University | Mentor- Prof. Dr. Gabe Montano
- 10/2018 - 01/2020 Postdoctoral Researcher | Chemical and Biological Engineering Department | University of New Mexico School of Engineering | Mentors- Prof. Dr. Andrew Shreve, Prof. Dr. Gabriel Lopez, and Dr. Nick Carroll

PUBLICATIONS

1. Christoph Frey*, Jacqueline A. De Lora*, Timotheus Jahnke, Yuanzhen Wang, Sebastian Weber, Ilia Platzman, Joachim P. Spatz. Controlled microfluidic droplet acoustoinjection on one chip. ChemRxiv. 5 May 2022. *Equal Contribution. DOI: 10.26434/chemrxiv-2022-j66dm
256 Downloads, 530 Views
2. Jacqueline A. De Lora, Antenor Hinton Jr., Christina M. Termini. Creating inclusive environments in cell biology by casual mentoring. Trends in Cell Biology. September 2022. DOI: 10.1016/j.tcb.2022.04.009
3. Oskar Staufer, Jacqueline A. De Lora, Eleonora Bailoni, Alisina Bazrafshan, Amelie S. Benk, Kevin Jahnke, Zachary A. Manzer, Lado Otrin, Telmo Díez Pérez, Judee Sharon, Jan Steinkühler, Katarzyna P. Adamala, Bruna Jacobson, Marileen Dogterom, Kerstin Göpfrich, Darko Stefanovic, Susan R. Atlas, Michael Grunze, Matthew R. Lakin, Andrew P. Shreve, Joachim P. Spatz, Gabriel P. López. Science Forum: Building a community to engineer synthetic cells and organelles from the bottom-up. eLife. 2021. DOI: 10.7554/eLife.73556
7 Citations, 1704 Views
4. Telmo Díez Pérez*, Adam Quintana*, Jacqueline A. De Lora*, Andrew P. Shreve, Gabriel P. López, and Nick J. Carroll. DNA-Binding by an Intrinsically Disordered Elastin-Like Polypeptide for Assembly of Phase Separated Nucleoprotein Coacervates. I&EC Research. 23 November 2021. *Equal Contribution. DOI: 10.1021/acs.iecr.1c02823
464 Views
5. Jacqueline A. De Lora*, Christina M. Termini*. Synthesis and Assembly of Virtual Collaborations. Trends in Biochemical Sciences. 10 August 2020. *Equal Contribution. DOI: 10.1016/j.tibs.2020.07.003
1 Citation, 230 Views
6. Jacqueline A. De Lora*, Jason L. Velasquez, Nick J. Carroll, James P. Freyer, Andrew P. Shreve*. Centrifugal Generation of Droplet Based 3D Cell Cultures. SLAS Technology. 30 April 2020. 1-10. *Corresponding author. DOI: 10.1177/2472630320915837
9 Citations, 503 Views
7. Jacqueline A. De Lora, Frank A. Fencel, Aidira D.Y. Macias Gonzalez, Alireza Bandegi, Reza Foudazi, Gabriel P. Lopez, Andrew P. Shreve*, and Nick J. Carroll*. Oil-free acoustofluidic droplet generation for multicellular tumor spheroid culture. ACS Applied Bio Materials. 16 September 2019. 2(9) 4097-4105. DOI: 10.1021/acsabm.9b00617
10 Citations, 703 Views
8. Cicotte, K.N., Reed, J.A., Nguyen, P.A.H., De Lora, J.A., Dirk, E.L.*, Canavan, H.E.* Optimization of electrospun poly(N-isopropyl acrylamide) mats for the rapid reversible adhesion of mammalian cells. Biointerphases. 2017. 12, 02C417. DOI:
11 Citations, 811 Downloads

SELECTED ABSTRACTS

1. **De Lora, J.A.**, Motycykova, L., Pashapour, S., Fischer, P., Platzman, I., Spatz, J.P. Synthetic magnetic cells (syMcells): exploring forces during hybrid collective cell migration. (2022) Syncell 2022, at The Hague, Netherlands, May 2022.
2. **De Lora, J.A.**, Fencel, F.A., Macias-Gonzales, A.D.Y., Lopez, G.P., Shreve, A.P.*, and Carroll, N.J.* (2018) Droplet-based 3D Cell Culture Methods to Enable Investigations of the Chemical Tumor Microenvironment. ASCB-EMBO, Molecular Biology of the Cell Meeting Abstract, at San Diego, California, USA, December 2018.
3. **De Lora, J.A.***, Innis, E.A., Velasquez, J., Sher, C., Freyer, J.P., Shreve, A. P.* (2016): Comparing in vitro lung adenocarcinoma growth using 2D and 3D coculture tissue models. ISAC Cytometry Meeting Abstract, at Seattle, Washington, USA, June 2016.
4. **De Lora, J.A.***, Kalb, D.M., Dorsey, J.E., Innis, E.A., Freyer, J.P., Shreve, A. P.* (2015): A high-throughput method for generating uniform 3D coculture tissue models. ISAC Cytometry Meeting Abstract, at Glasgow, Scotland, June 2015.
5. **De Lora, J. A.***, Kalb, D., Martinic, A., Trujillo, A., Woods, T., Shreve, A., Freyer, J.P.* (2013): A high-throughput method for creating uniform 3D tissue models. ISAC Cytometry Meeting Abstract at San Diego, California, USA, May 2013.
6. **De Lora, J. A.***, Shreve, A.P., Freyer, J. P.* (2013): Creating Improved 3D Tissue Models. ASCB-EMBO Molecular Biology of the Cell Meeting Abstract at New Orleans, Louisiana, USA, December 2013.
7. **De Lora, J. A.***, Woods, T. A., Bluestein, B. M., Canavan, H. E., Freyer, J. P.* (2012): Developing a Calcium Alginate Droplet Generator for the Formation of Uniformly Sized Multicellular Tumor Spheroids. ISAC Cytometry Meeting Abstract at Leipzig, Germany, June 2012.
8. **De Lora, J. A.***, Woods, T. A., Martinic, A.I., Canavan, H. E., Freyer, J. P.* (2012): Developing a Calcium Alginate Droplet Generator for the Formation of Uniformly Sized Multicellular Tumor Spheroids. SACNAS National Conference Abstract at Seattle, Washington, USA, October 2012.
9. **De Lora, J.A.***, Lidke, D.S., Shreve, A. P., Freyer, J.P. (2012): Smart Nanosensors for Characterization of the Microenvironment in a 3D Tumor Model. Invited Abstract NCI Alliance for Cancer and Nanotechnology PI Meeting at Houston, Texas, USA, November 2012.

PRIZES AND AWARDS

2020	Cell Mentor Rising Star: 100 Inspiring Hispanic/Latinx Scientists in America
2018	ASCB-MAC First Place Postdoc Level Poster Award
2018	ASCB-MAC Travel Award
2017	SACNAS ASSIST Travel Grant
2016	ISAC CYTO Student Conference Travel Scholarship Award
2016	UNM Doctoral Conference Presentation Award
2015	ISAC CYTO Outstanding Poster Award
2015	ISAC CYTO International Conference Travel Scholarship Award
2015	UNM Doctoral Conference Presentation Award
2015	Industrial Innovation Prize: UNM.STC Business Plan Competition Winner
2015	First Place BSGP Student Research Day Poster Presentation
2013	ASCB Diversity Travel Scholarship award from NMSU Chemical Engineering
2013	ISAC CYTO International Conference Travel Scholarship Award
2012	Invited Talk: NM-CNTC NCI Cancer and Nanotech Alliance Annual PI Meeting Travel Scholarship
2012	UNM SCAP Travel Scholarship Award
2012	SACNAS Travel Scholarship Award
2012	ISAC CYTO International Conference Travel Scholarship Award

PROFESSIONAL DEVELOPMENT

SYNCELL2021 | Organization Committee June 2020 - Ongoing

SYNCELL2020 | May 2020

ASCB 2018 | December 2018

40th Annual Course in Flow Cytometry | June 2017 Assistant Organizer

ISAC Cytometry 2016 International Congress | June 2016

38th Annual Course in Flow Cytometry | 2015 Lead volunteer

ISAC Cytometry 2015 International Congress | June 2015

36th Annual Course in Flow Cytometry | 2013

ASCB 2013 | December 2013

ISAC Cytometry 2013 International Congress | June 2013

ISAC Cytometry 2012 International Congress | June 2012

AVS Technical Workshop on Ultra High Vacuum Systems | May 2011

IEEE National Conference on Biomedical Imaging | April 2011

Society for the Advancement of Chicanos in Science (SACNAS) National Conference and Research Symposium | October 2010, 2011, 2012, 2017

Applied Materials Science Symposium at Harvard University | July 2010

PATENTS

Freyer, James P., Shreve, Andrew P., and **De Lora, Jacqueline A.**: A 3D Tissue Model for Spatially Correlated Analysis of Biochemical, Physiological and Metabolic Microenvironments. Submitted as: U.S. Patent (Application No. 14/973303, Filed December 17, 2015).

TEACHING, OUTREACH, AND MENTORING EXPERIENCE:

1. Teaching Assistantship for CBE 361-Biomolecular Engineering | UNM SOE Fall 2016, 2015, 2014 for Professors Andrew Shreve, Gabriel Montano, and Steve Graves
2. Teaching Assistantship for Biomedical Sciences Graduate Program BIOM501 Ethics and Statistics | UNM-SOM Fall 2012 for Professor Helen Hathaway
3. Research Education for Undergraduates (REU) Mentor | UNM Summer 2012
4. Teaching Assistantship for Chemical and Nuclear Engineering 101 | UNM Fall 2010/2011
5. Current mentoring team member of ProjectSHORT and Cientifico Latino

Outreach events to elementary school students and to the public at science museums: 8

Number of high school students mentored and supervised: 5

Number of undergraduate students mentored and supervised: 14

Number of graduate students mentored and supervised: 5

Percentage of non-white non-male: 65%