

JACQUELINE A. DE LORA

CURRENT POSITION: POSTDOCTORAL RESEARCH
SCHOLARSHIP HOLDER FROM THE MAX PLANCK SOCIETY

CELLULAR BIOPHYSICS DEPARTMENT, LABORATORY OF
PROFESSOR JOACHIM P. SPATZ, MPIMF

CONTACT INFORMATION

Physical Addresses



Altwaterstraße 9
71032 Böblingen, Germany



Heisenbergstraße 3
Office 6N18
70569 Stuttgart, Germany

Virtual Addresses



jacqueline.delora@mr.mpg.de



@jdeloraPHD



jacquinedelora.com

Phone



+49 173 626 2992



+49 711 689 3676

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 Advanced
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	240 Views, 155 Downloads
Link	https://digitalrepository.unm.edu/biom_etds/186
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 FELLOWSHIP AWARDS & 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
Report Link	https://reporter.nih.gov/project-details/9071293
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 I Cellular Biophysics Department I Max Planck Institute for Medical Research I Mentor- Prof. Dr. Joachim Spatz
- 06/2019 - 07/2019 Guest Postdoctoral Researcher I Chemistry and Biochemistry Department I Northern Arizona University I Mentor- Prof. Dr. Gabe Montano
- 10/2018 - 01/2020 Postdoctoral Researcher I Chemical and Biological Engineering Department I University of New Mexico School of Engineering I Mentors- Prof. Dr. Andrew Shreve, Prof. Dr. Gabriel Lopez, and Dr. Nick Carroll

PUBLICATIONS

1. Stauffer, O., **De Lora, J. A.**, Bailoni, E., Bazrafshan, A., Benk, A. S., Jahnke, K., ... López, G. P. Building a community to engineer synthetic cells and organelles from the bottom-up. *enrXiv Preprint*. 30 September 2021. <https://doi.org/10.31224/osf.io/3jw2x>. **186 Downloads**
2. Díez Pérez, T.*, Quintana, A.*, **De Lora, J.A.***, Shreve, A.P., Lopez, G.P., Carroll, N.J. DNA-Binding by an Intrinsically Disordered Elastin-Like Polypeptide for Assembly of Phase Separated Nucleo-protein Coacervates. *ACS I&EC Research*. Submitted July 2021, Cover Feature. *Equal Contribution
3. **De Lora, J.A.*** and Termini, C.M.* Synthesis and Assembly of Virtual Collaborations. *Trends in Biochemical Sciences*. 10 August 2020. *Equal Contribution <https://doi.org/10.1016/j.tibs.2020.07.003>. **50 Downloads**
4. **De Lora, J.A.***, Velasquez, J.L., Carroll, N.J., Freyer, J.P., Shreve, A.P.* Centrifugal Generation of Droplet Based 3D Cell Cultures. *SLAS Technology*. 30 April 2020. 1-10. *Corresponding author. <https://doi.org/10.1177/2472630320915837>. **287 Downloads, 1 Citation**
5. **De Lora, J. A.**, Fencel, F. A., Macias, Bandegi, A., Foudazi, R., A. D., Lopez, G. P., Shreve, A. P.*, and Carroll, N.J.* Oil-free acoustofluidic droplet generation for multicellular tumor spheroid culture. *ACS Applied Bio Materials*. 16 September 2019. 2(9) 4097-4105. <https://doi.org/10.1021/acsabm.9b00617>. **473 Downloads, 6 Citations**
6. 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. <https://doi.org/10.1116/1.4984933>. **423 Downloads, 9 Citations**

SELECTED ABSTRACTS

1. **De Lora J.A.**, Platzman, I., and Spatz J.P. (2021): Engineering droplet-based programmable stem cell niches - synNiches. SynCell2021 Virtual Contributed Abstract at Stuttgart, Germany. May 2021.
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.

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).

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	<u>Invited Talk</u>: 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

Molecular Biology of the Cell | Early Career Editor January 2021 - Ongoing

SYNCELL2021 | Organization Committee June 2020 - Ongoing

SYNCELL2021 | Invited and Contributed Talks Moderator; Poster session Moderator

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 | 2010 - 2017

Applied Materials Science Symposium at Harvard University | July 2010

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

Mentoring/supervision: 10 High school students; 15 Undergraduate students; 12 graduate students