

Alain Garcia De Las Bayonas

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University of California, Berkeley

CURRENT AND PAST ACADEMIC POSITIONS

- 2020-present Postdoctoral Fellow**
University of California, Berkeley, and the Howard Hughes Medical Institute, California, USA. Mentor: Nicole King
- 2019-2020 Postdoctoral Fellow**
Aix-Marseille University, Faculty of Sciences, Marseille, France. Mentor: Thomas Lecuit
- 2014-2018 PhD student**
Aix-Marseille University, Faculty of Sciences, Marseille, France. Mentor: Thomas Lecuit

EDUCATION

- 2014-2018 Ph.D. in Developmental Biology.** Aix-Marseille University-Faculty of Sciences, Marseille, France.
- 2012-2014 Master's in Development and Immunology,** Aix-Marseille University-Faculty of Sciences, Marseille, France.
- 2009-2012 Bachelor's in Cell Biology.** Aix-Marseille University-Faculty of Sciences, Marseille, France.

HONORS AND FELLOWSHIPS

- 2026** Honorable Mention Postdoctoral Presentation Award, Hilde Mangold Symposium, Society for Developmental Biology 85th Annual Meeting
- 2021-2023** HFSP Long-term Fellowship from the Human Frontier Science Program
- 2018** Best Oral Presentation Award, Doctoral School Symposium – 26th Edition
- 2014-2018** PhD fellowship from the French Ministry of Higher Education
- 2014** Master's degree awarded with Highest Distinction and Honors, Aix-Marseille University
- 2012** Bachelor's degree awarded with Highest Distinction and Honors, Aix-Marseille University
- 2012-2014** Merit scholarship from the French Ministry of Higher Education

PUBLICATIONS

- Garcia De Las Bayonas A.**, Gonzalez S., King N. An adhesion GPCR regulates cell adhesion and mating in the closest living relatives of metazoans. *bioRxiv* 2026.06.27.734982; doi: 10.64898/2026.06.27.734982
- Langenhan T., Anderson G.R., Araç D., Aust G., Avila-Zozaya M., Bagger S.M., Barth P., Berndt S., Blacklow S.C., Blanco-Redondo B., Boucard A.A., Bridges J., Brodmerkel L.-S., Caron K.M., Chung Y.K., Dates A.N., de Araujo Farias V., Del Toro D., Duman J.G., Engel

F.B., Favara D.M., Formstone C.J., Fu C., **Garcia De Las Bayonas A.**, Georgiadi A., Gloriam D.E., Hall R.A., Hamann J., Hildebrand P.W., Hsiao C.-C., Huang B.X., Javitch J.A., Kim H.-Y., Kittel R.J., Kleinau G., Leduc R., Liebscher I., Lin H.-H., Linnert J., Ludwig M.-G., Martinelli D.C., Mathiasen S., Matúš D., Melkumyan M., Moreno-Salinas A.L., Mulder J., Nash M.A., Pal K., Pederick D.T., Perry-Hauser N.A., Piao X., Ping Y.-Q., Placantonakis D.G., Pohl F., Prömel S., Rosenkilde M.M., Sabbagh L., Sando R.C., Scheerer P., Schöneberg T., Seiradake E., Selcho M., Seufert ., Singh A.K., Skiniotis G., Spiess K., Sträter N., Strutt D., Südhof T.C., Sun J., Tall G.G., Thor D., Tilley D.G., Tolias K.F., Vallon M., Van Meir E.G., Vanhollebeke B., Wiggan G.R., Wolfrum U., Yan J., Zaidman N.A., Zou Y., Scholz N. Adhesion G protein-coupled receptors. *Pharmacol. Rev.* 2025. doi: 10.1016/j.pharmr.2026.100116

3. **Garcia De Las Bayonas A.** and King N. 2025. G protein-coupled receptor diversity and evolution in the closest living relatives of Metazoa. *eLife*14:RP107467. doi: 10.7554/eLife.107467.3

4. Hake KH, West PT, McDonald K, Laundon D, Reyes-Rivera J, **Garcia De Las Bayonas A.**, Feng C., Burkhardt P., Richter DJ., Banfield JF., King N. 2024. A large colonial choanoflagellate from Mono Lake harbors live bacteria. *mBio* 15:e01623-24. doi: 10.1128/mbio.01623-24

5. **Garcia De Las Bayonas A.**, Philippe JM., Lellouch AC., Lecuit T. Distinct RhoGEFs activate apical and junctional actomyosin contractility under control of G proteins during epithelial morphogenesis. *Curr. Bio.* 2019 Sep 29 (20):3370-3385. e7 doi: 10.1016/j.cub.2019.08.017

6. Lellouch AC., **Garcia De Las Bayonas A.**, Lecuit T. Strengthen Your Junctions to Resist the Force. *Dev. Cell.* 2018 Nov 19 (47):406-407. doi: 10.1016/j.devcel.2018.11.007

7. Kerridge S., Munjal A., Philippe JM., Jha A., **Garcia De Las Bayonas A.**, Saurin AJ., Lecuit T. Modular activation of Rho1 by GPCR signaling imparts polarized myosin II activation during morphogenesis. *Nat Cell Bio.* 2016 Mar 18(3):261-70 doi: 10.1038/ncb3302

TALKS

¹invited Speaker ²Talk selected from Abstract Submission ³Also Chaired session

2026	Hilde Mangold Symposium, Society for Developmental Biology 85th Annual Meeting² , Las Vegas, NV, US
2025	10th Choanoflagellates and Friends Conference² , Institut Pasteur, Paris, France
2024	11th Adhesion GPCR Workshop^{2,3} , Mexico City, Mexico
2024	MAYosis Conference 2024² , Webinar series
2023	Cell Bio 2023 ASCB EMBO Meeting² , Boston, MA, USA
2023	SDB Ethel Browne Harvey Postdoctoral Seminar Series² , Virtual Meeting Recording: https://www.youtube.com/watch?v=xbEdN6aNjnE
2023	International Choanoflagellate & Friends Workshop 2023^{2,3} , Berkeley & San Francisco, CA, USA
2023	Cilia Super Group¹ , University of California, San Francisco, CA, USA
2023	SMBE Everywhere GS10: Genetics and Evolution of Sex Differences² , Virtual Meeting
2022	GGED Annual Research Conference & Retreat² , Asilomar, CA, USA
2022	10th Adhesion GPCR Workshop² , Copenhagen, Denmark
2021	HHMI Science Meeting² , Virtual Meeting
2021	CDB Annual Research Conference & Retreat² , Berkeley, CA, USA
2017	2nd Meeting of the FSER Laureates¹ , Imagine Institut, Paris, France

POSTERS

2025	10th Choanoflagellates and Friends Conference , Institut Pasteur, Paris, France
2024	HHMI Science Meeting 2024 – HHMI's Janelia Research Campus, Ashburn, VA USA
2022	HHMI Science Meeting 2022 – HHMI's Headquarters Campus, Chevy Chase, MA USA
2021	20th HFSP Awardees Meeting – Virtual meeting
2021	GGD Annual Research Conference – Berkeley, CA USA
2018	Physics of Living Matter – 13th edition – Marseille, France
2016	Santa Cruz Developmental Biology Meeting – CA, USA
2016	SFBD International Meeting “Shaping Life” – Marseille, France
2015	“Quantitative Biology of Signaling” , Labex INFORM International Conference – Institut d'Etudes scientifiques de Cargèse, Corsica

TEACHING

2026	Guest lecturer , "Weird Organisms in Cell Biology", March 2026. CMB 512S, Department of Biology, Duke
2024	Guest lecturer , "Weird Organisms in Cell Biology", March 2024. CMB 512S, Department of Biology, Duke
2023	Guest lecturer , "Evolution of sex and recombination", November 2023. MCB 143, Department of Molecular and Cell Biology, Berkeley
2023	Teaching assistant , MBL Physiology 2023 – Research Session 1, Woods Hole, MA USA. Worked directly with graduate students and postdocs to help them design and execute research projects.
2022	Teaching assistant , MBL Physiology 2022 – Research Session 2, Woods Hole, MA USA. Worked directly with graduate students and postdocs to help them design and execute research projects.
2014-2017	Undergraduate Student Instructor , Aix-Marseille University, Marseille, France. Supervised first-year bachelor students on the practical course « Identification of a recombinant plasmid by restriction map and PCR »

PEER REVIEW SERVICE

2026	Review activity for Science (1) – Role: Reviewer
2019	Review activity for eLife (1) – Role: Reviewer

SCIENCE COMMUNICATION AND OUTREACH

2018	"Profession Chercheur" , Podcast interview (hosts: Nicolas Chevassus, Philippe Hert, and Jérôme Matéo), Marseille
2017	March for Science , Marseille – Supervised a DNA extraction workshop and gave a public talk: "On serendipity in science".
2017	Café des Sciences , Avignon – Gave a public talk: « Cellules en marche, cellules insoumises » (an introduction to Cell Biology for non-scientists)
2015	Molecular Biology Workshop , Primary school, Redon, Marseille – Supervised primary school students to perform DNA extraction from fruits.

MENTORSHIP

2026	Norrie White , Laboratory technician, University of California, Berkeley
2026	Stefany Gonzalez , Laboratory technician, University of California, Berkeley
2022	Ann Matthew , Laboratory technician, University of California, Berkeley
2021	Michael Carver , Graduate student, University of California, Berkeley