

Alain Garcia De Las Bayonas, PhD

alaingdlb@berkeley.edu

Professional Experience :

- 2020-present **University of California, Berkeley**
Postdoctoral Fellow
Research Advisor: Professor Nicole King
- 2019-2020 **Aix-Marseille University, Faculty of Sciences**
Postdoctoral Fellow
Research Advisor: Professor Thomas Lecuit

Education

- 2014-2018 **Ph.D. in Developmental Biology**. Aix-Marseille University, France
Research Advisor: Professor Thomas Lecuit
Thesis: "*Spatio-temporal and quantitative control of Rho1 activity by GPCR signaling during tissue morphogenesis*"
- 2012-2014 **Master in Development and Immunology**, Aix-Marseille University, France
Faculty of Sciences, with highest honors
- 2009-2012 **Bachelor in Cell Biology**. Aix-Marseille University, France
Faculty of Sciences, with highest honors

Honors and Fellowships

- 2021-2023 HFSP Long-term Fellowship from the Human Frontier Science Program
- 2016 Best talk in the annual AMU doctoral colloquium at Aix-Marseille University
- 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

1. **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
2. Kerridge S, Munjal A, Philippe JM, Jha A, **Garcia de las Bayonas A**, Saurin AJ and 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

Teaching Experience

- 2014-2017 **Undergraduate Student Instructor**, Aix-Marseille University.
Supervised first year bachelor students on practical course « Identification of a recombinant plasmid by restriction map and PCR »
- 2015 **Molecular Biology Workshop**, Primary school, Redon Marseille –
Supervised primary school students to perform DNA extraction from fruits.
- 2017 **March for Science**, Marseille. Animated a DNA extraction workshop and gave a public talk: “On serendipity in science”.
- 2017 **Café des Sciences** Nov 2017, Avignon : public talk co-animated by Dr Alphée Michelot : «Cellules en marche, cellules insoumises».

Mentorship

- 2021 Graduate student mentee at UC Berkeley
- Michael Carver

Conferences

1. **Labex INFORM Lecture Course Oct 2014 – Quantitative Biology of Signaling** – Carry le Rouet, Provence, France.
2. **Labex INFORM Conference Sept 2015 – Quantitative Biology of Signaling** – Institut d'Etudes scientifiques de Cargèse, Corsica. Poster A.Garcia de las Bayonas and T.Lecuit : *Microtubule-dependent regulation of Rho1 pathway during early Drosophila morphogenesis*
3. **SFBD MEETING May 2016 – Shaping Life** – Marseille, France. Poster A.Garcia de las Bayonas, J.M Philippe and T.Lecuit : *Spatio-temporal regulation of Rho1 activity during early Drosophila morphogenesis*
4. **Santa Cruz Developmental Biology Conference, Aug 2016** – CA. USA Poster A.Garcia de las Bayonas, J.M Philippe and T.Lecuit : *Division of Labour in Rho1 signaling during early Drosophila morphogenesis*
5. **2ème Meeting des Lauréats FSER, Oct 2017** – Paris. Talk A.Garcia de las Bayonas. *Division of Labour in Rho1 signaling drives epithelial morphogenesis*
6. **Physics of Living Matter – 13th edition, Sept 2018** – Marseille, France. Poster A.Garcia de las Bayonas, J.M Philippe and T.Lecuit : *Deconstructing the mechanism of modular Rho1 activation by G proteins during tissue morphogenesis*