

**Name:** Alberto Roselló-Díez

## EDUCATION

1/2011 *Ph.D.*, Molecular Biology (*cum laude*), **Autonomous University of Madrid**, Spain.  
 6/2005 *B.S./M.S.*, Biochemistry (*cum laude*), **University of Zaragoza**, Spain.

## RESEARCH EXPERIENCE

6/2023-Present **Associate Professor** in Developmental Genetics. Dept. of Physiology, Development and Neuroscience (PDN) and Dept. of Genetics. *University of Cambridge, UK*.

6/2018-12/2024 **Group Leader**. *Australian Regenerative Medicine Institute. Level 1, 15 Innovation Walk. Monash University*. Partial appointment from 26 June 2023 onwards.

7/2017-5/2018 **Research Associate**. *Developmental Biology Program, Sloan Kettering Institute for Cancer Research, New York, NY*. Supervisor: Alexandra L. Joyner, PhD.

6/2012-6/2017 **Postdoctoral Research Fellow**. *Developmental Biology Program, Sloan Kettering Institute for Cancer Research, New York, NY*. Supervisor: Alexandra L. Joyner, PhD.

2/2011-6/2012 **Postdoctoral Researcher**. *Department of Cardiovascular Development and Repair. Spanish National Center for Cardiovascular Research (CNIC), Madrid, Spain*. Supervisor: Miguel Torres, PhD.

1/2006-1/2011 **Predoctoral Researcher**. *Department of Immunology and Oncology. (CNB), and then Department of Cardiovascular Development and Repair. Spanish National Center for Cardiovascular Research (CNIC). Madrid, Spain*. Supervisor: Miguel Torres, PhD.

6/2005-8/2005 **Introduction to Investigation Fellow**. *Department of Biochemistry and Molecular Biology, University of Zaragoza, Spain*. Supervisor: Javier Sancho, PhD

9/2004 **Collaboration Fellow**. *R&D department of Certest Biotech, through a fellowship from the Nanotechnology Institute of Aragón, Zaragoza, Spain*. Supervisor: Carlos Gómez Moreno.

## RESEARCH SUPPORT INCOME

### - CURRENT

2025-2028 **Int. Science Partnerships Fund – Int. Collaboration Award (UK-Japan)**. The Royal Society. Principal Investigator. 3 years. GBP 182,833.40 for Rosello-Diez.

### - PAST

2021-2024 **Ideas Grant** from the NHMRC (Australia). Principal Investigator A. 4 years. AUD 1,043,810.

2019-2022 **Career Development Award**. Human Frontiers Science Program. USD 300,000.

2018-2020 Platform Access Grant. Monash University. Principal Investigator. AUD 15,000.

2015-2017 R21 exploratory grant (NIH). PI: Alexandra Joyner (Rosello-Diez key personnel). USD 275,000.

2015-2017 Charles Revson Senior Fellowship in Biomedical Science. USD 160,250.

2012-2015 Human Frontiers Science Program Long-Term Postdoctoral Fellowship. USD 165,380.

## PUBLICATIONS

### A) Peer-reviewed research articles (reverse chronological order, \*top 5 publications)

1. Wei Zhou, Michelle L Van Sinderen, Katarzyna Rainczuk, Ellen Menkhorst, Kelli Sorby, Tiki Osianlis, Mulyoto Pangestu, Leilani Santos, Luk Rombauts, **Alberto Rosello-Diez**, Evdokia Dimitriadis. Dysregulated miR-124-3p in endometrial epithelial cells reduces endometrial receptivity by altering polarity and adhesion. *PNAS* 2024 Oct 8;121(41). doi: 10.1073/pnas.2401071121. PMID: 39365817.
- \*2. Chee Ho H'ng, Shanika L. Amarasinghe, Boya Zhang, Hojin Chang, Xinli Qu, David R. Powell, **Alberto Rosello-Diez**. Compensatory growth and recovery of cartilage cytoarchitecture after transient cartilage-specific cell death in fetal mouse limbs. *Nature communications* 2024 Apr 5;15(1):2940. PMID: 38580631. Open Access.
3. Beltran Diaz S, H'ng CH, Qu X, Doube M<sup>#</sup>, Nguyen JT, de Veer M, Panagiotopoulou O, Rosello-Diez A<sup>#</sup>. A new pipeline to automatically segment and semi-automatically measure bone length on 3D models obtained by Computed Tomography. *Frontiers in Cell and Dev. Biology*. 26 Aug 2021. doi: 3389/fcell.2021.736574. PMID: 34513850. Open Access. <sup>#</sup>Co-corresponding authors.
4. Delgado I, Lopez-Delgado AC, **Rosello-Diez A**, Giovinazzo G, Cadenas V, Fernandez-de-Manuel L, Sanchez-Cabo F, Anderson M, Lewandoski M, Torres M. *Science Advances*. 2020 Jun 3;6(23). doi: 10.1126/sciadv.aaz0742. PMID: 32537491. Open Access.

5. Ahmadzadeh E, Bayin NS, Qu X, Singh A, Madisen L, Stephen D, Zeng H, Joyner AL<sup>#</sup>, **Rosello-Diez A<sup>#</sup>**. A collection of genetic mouse lines and related tools for inducible and reversible intersectional mis-expression. *Development*. 2020 May 28;147(10):dev186650. doi: 10.1242/dev.186650. PMID: 32366677. <sup>#</sup>Co-corresponding authors.
6. Willett RT, Bayin NS, Lee AS, Krishnamurthy A, Wojcinski A, Lao Z, Stephen D, **Rosello-Diez A**, Dauber-Decker KL, Orvis GD, Wu Z, Tessier-Lavigne M, Joyner AL. Cerebellar nuclei excitatory neurons regulate developmental scaling of presynaptic Purkinje cell number and organ growth. *Elife*. 2019 Nov 19;8:e50617. doi: 10.7554/eLife.50617. PMID: 31742552. Open Access.
7. Uribe V<sup>#</sup>, **Roselló-Díez A<sup>#</sup>**. Culturing and measuring fetal and newborn murine long bones. *J Vis Exp* 2019 Apr 26;(146). doi: 10.3791/59509. PMID: 31081827. <sup>#</sup>Co-corresponding authors.
- \*8. **Roselló-Díez A<sup>#</sup>**, Madisen L, Bastide S, Zeng H and Joyner AL<sup>#</sup>. Cell-nonautonomous local and systemic responses to insult during long bone catch-up growth. *PLoS Biology* 2018 Jun 26;16(6):e2005086. doi: 10.1371/journal.pbio.2005086. PMID: 29944650. Selected for press release and highlighted by *F1000*, *Nature*, *The Age* and *Scientific American*. Open Access. <sup>#</sup>Co-corresponding authors.
9. **Roselló-Díez A<sup>#</sup>**, Stephen D and Joyner AL<sup>#</sup>. Altered paracrine signaling from the injured knee joint impairs postnatal long bone growth. *eLife*. 2017 Jul 25;6. pii: e27210. PMID: 28741471. Selected for *eLife digest* and press release. Open Access. <sup>#</sup>Co-corresponding authors.
10. Legué E, Gottshall J, Jaumouillé E, **Roselló-Díez A**, Shi W, Barraza H, Washington S, Grant R, Joyner AL. Differential timing of granule cell production during cerebellum development underlies generation of the foliation pattern. *Neural Development*. 2016 Sep 8;11(1):17. PMID: 27609139. (Featured in the Editor's choice of *Science*). Free PMC article.
- \*11. Zheng HF<sup>#</sup>, Forgetta V<sup>#</sup>, Hsu YH<sup>#</sup>, Estrada K<sup>#</sup>, **Roselló-Díez A<sup>#</sup>**, Leo PJ<sup>#</sup>, Dahia CL<sup>#</sup>, Park-Min KH<sup>#</sup>, Tobias JH<sup>#</sup>, Kooperberg C<sup>#</sup>, [...] Evans DM, Ackert-Bicknell CL, Joyner AL, Duncan EL, Kiel DP, Rivadeneira F, Richards JB. Whole genome sequencing identifies *EN1* as a determinant of bone density and fracture. *Nature*. 2015 Oct 1;526(7571):112-7. doi: 10.1038/nature14878. PMID: 26367794. Free PMC article. <sup>#</sup>Co-first authors.
12. González-Lázaro<sup>#</sup> M, **Roselló-Díez<sup>#</sup> A**, Delgado I, Carramolino L, Sanguino MA, Giovinazzo G and Torres M. Two new targeted alleles for the comprehensive analysis of *Meis1* functions in the mouse. *Genesis*. 2014 Dec;52(12):967-75. PMID: 25363539. <sup>#</sup>Co-first authors.
- \*13. **Roselló-Díez A**, Arques CG, Delgado I, Giovinazzo G and Torres M. Diffusible signals and epigenetic timing cooperate in late proximo-distal limb patterning. *Development*. 2014 Apr;141(7): 1534-43. PMID: 24598165. (Featured in *Development*, the *Faculty of 1000* and in Gilbert's *Developmental Biology* 11<sup>th</sup> ed.). Free PMC article.
- \*14. **Roselló-Díez A**, Ros MA and Torres M. Diffusible signals, not autonomous mechanisms, determine the main proximo-distal limb subdivision. *Science*. 2011 May 27; 332(6033): 1086-8. PMID: 21617076. (Featured in *Science*, the *Faculty of 1000*, *Nature Rev. Genetics*, *Science Signaling*, and Gilbert's *Developmental Biology* 9<sup>th</sup> ed.). Free PMC article.
15. **Roselló-Díez A** and Torres M. Regulative patterning in limb bud transplants is induced by distalizing activity of AER signals on host limb cells. *Developmental Dynamics*. 2011 May; 240(5): 1203-11. PMID: 21509894. Free PMC article.

## B) Preprints

1. Xinli Qu, Ehsan Razmara, Chee Ho H'ng, Kailash Vinu, Luciano G. Martelotto, Magnus Zethoven, Fernando J. Rossello, Shanika L. Amarasinghe, David R. Powell, Alberto Rosello-Diez. Long-lived chondroprogenitors are generated by Gli1<sup>+</sup> fetal cells and are replenished upon mosaic cell-cycle arrest in the cartilage. bioRxiv 2024. <https://doi.org/10.1101/2024.07.29.603524>

Four other preprints have already been published after peer review.

## C) Review articles

1. H'ng CH, Khaladkar A, **Rosello-Diez A<sup>#</sup>**. Look who's TORking: mTOR-mediated integration of cell status and external signals during limb development and endochondral bone growth. 2023 Apr 19. DOI:

- 10.3389/fcell.2023.1153473. #Corresponding author. PMID: 37152288. Open-source article.
2. Kagan BJ, **Rosello-Diez A**<sup>#</sup>. Integrating levels of bone growth control: From stem cells to body proportions. *Wiley Interdiscip Rev Dev Biol*. 2020 May 20:e384. doi: 10.1002/wdev.384. Online ahead of print. PMID: 32436370. #Corresponding author.
  3. **Roselló-Díez**<sup>#</sup> A and Joyner AL. Regulation of long bone growth in vertebrates; it is time to catch-up. *Endocrine Reviews*. 2015 Dec;36(6):646-80. doi: 10.1210/er.2015-1048. Epub 2015 Oct 20. PMID: 26485225. #Corresponding author. Free PMC article.

#### D) Commissioned editorials, previews, meeting reports

1. **Rosello-Diez A** and Menchero S. In preprints: oxygen and NFκB signals shift the timing of hindlimb formation. *Development*. 2024 Dec 15;151(24):DEV204578. doi: 10.1242/dev.204578. PMID: 39705658. Equal contribution of all authors.
2. McCusker C, **Rosello-Diez A**. In preprints: new insights into proximodistal limb patterning and differentiation. *Development* 2022 Oct 1;149(19):dev201308. doi: 10.1242/dev.201308. PMID: 36200555. Equal contribution of all authors.
3. Bandyopadhyay A, Francis-West P, Katti D, **Roselló-Díez A**. Musculoskeletal Development, Maintenance & Regeneration, Part Two. *Dev Dyn*. 2021 Mar;250(3):300-301. Doi: 10.1002/dvdy.314. PMID: 33580530. Equal contribution of all authors.
4. Bandyopadhyay A, Francis-West P, Katti D, **Roselló-Díez A**. Musculoskeletal Development, Maintenance & Regeneration, Part One. *Dev Dyn*. 2020 Dec 9. doi: 10.1002/dvdy.277. PMID: 33295101. Equal contribution of all authors.
5. **Rosello-Diez A**. Size and scale during development and regeneration. *Wiley Interdiscip. Rev. Dev. Biol*. 2020 Aug 12:e393. doi: 10.1002/wdev.393. Epub 2020 Aug 12. PMID: 32786055.
6. **Rosello-Diez A**<sup>#</sup>, Whited JL<sup>#</sup>. Discussing limb development and regeneration in Barcelona: The future is at hand. *Dev Dyn*. 2020 Feb;249(2):160-163. doi: 10.1002/dvdy.121. PMID: 31587395. #Co-corresponding authors.

#### HONOURS AND AWARDS

2020	John Haddad Young Investigator Award. American Society for Bone and Mineral Research.
2019	<b>Career Development Award</b> . Human Frontiers Science Program.
2015	Charles Revson Senior Fellowship in Biomedical Science.
2012	<b>HFSP Long-Term Postdoctoral Fellowship</b> . Human Frontiers Science Program.
2011	<b>EMBO Long-Term Postdoctoral Fellowship</b> . EMBO. Declined.
2011	Ramón Areces Postdoctoral Fellowship. Declined.
2011	<b>Doctorate Extraordinary Prize</b> . Science Faculty of the Autonomous Univ. of Madrid, Spain.
2009	MBL Fellowship (Embryology course). Marine Biological Laboratory. Woods Hole, MA, USA.
2008	Training Research Contract from the Regional Government of Madrid, Spain.
2007	Selected to attend the 57 <sup>th</sup> Lindau Nobel Laureate Meeting (Physiology and Medicine).
2007	FPI Predoctoral Fellowship from the Spanish Ministry for Science and Education.
2006	I3P Predoctoral Fellowship from the Spanish National Research Council.
2006	FPU Predoctoral Fellowship from the Spanish Ministry for Science and Education. Declined.
2006	<b>First National Extraordinary Prize</b> for best track record in Biochemistry in Spain.
2005	Extraordinary Prize for best track record in Biochemistry and in the Faculty of Sciences.

#### AWARDS, DISTINCTIONS AND GRANTS OF GROUP MEMBERS

- 2023-2026 **HFSP Long-Term Postdoctoral fellowship**, Isha Goel.
- 2023 **Best poster presentation award** at Hunter Cell Biology Meeting, Chee Ho H'ng

#### PRESENTATIONS

**Invited talks**

- 2024 *Caught by the limb: new approaches to study organ growth during development and repair.* Developmental Biology Seminar Series. Gurdon Institute. University of Cambridge. December 2024
- 2023 *Going out on a limb to study mechanisms controlling organ size and proportions.* Foster talk seminar series. The University of Cambridge. November 2023.
- 2022 *Cellular and signalling plasticity during limb development and repair.* Developmental Biology Conversations. The University of Melbourne (virtual). May 2022.
- 2021 *Control of limb size during development and repair: new approaches for an old question.* Organogenesis and Cancer Program Seminar Series. Peter McCallum Cancer Center, Melbourne (virtual). Sept 2021.
- 2021 *Control of limb size during development and repair: new approaches for an old question.* New PI in Cell & Developmental Biology Seminar series (virtual). Sept 2021.
- 2020 *Placental and whole-embryo responses to local impairment of long-bone growth. A role in maintaining body proportions?* CRH Seminar. Hudson Institute of Medical Research. Melbourne, Oct 2020.
- 2019 *Intrinsic and extrinsic mechanisms of organ growth control: new approaches for a classic question.* SVI Seminar. St Vincent's Institute. Melbourne, Oct 2019.
- 2018 *Going out on a limb to study organ growth regulation in mammals.* Functional Genomics Seminar. Murdoch's Children Research Institute. Melbourne, Oct 2018.
- Going out on a limb to study intra- and inter-organ growth regulation in mice.* Institute de Biologie Valrose. University of Nice, France. Apr 2018.
- 2016 *Modulation of longitudinal bone growth by the soft tissues. Going out on a limb to explore new therapies for growth disorders.* Hospital for Special Surgery. New York, NY. July 2016.
- Unraveling the intrinsic-extrinsic interactions that govern organ growth and patterning in vertebrates.* Bio-Med society at the Baruch College, CUNY. New York, NY. Apr 2016.

**Conference presentations****a) Invited speaker**

- 2022 *International Society for Regenerative Biology meeting.* Apr 2022.
- 2021 *Advances in Mineral Metabolism Meeting.* Colorado, USA. April 2021.
- 2019 *Control of bone size and body proportions by inter-tissue communication. Meeting on Growth, patterning and scaling during development.* Fondation des Treilles, France. 4-9 November.
- 2019 *15<sup>th</sup> International Conference on Limb Development and Regeneration (EMBO workshop).* Barcelona, Spain. 2-5 July.
- 2019 *Hunter Cell Biology Meeting.* Hunter Valley, Australia. 18-22 March.

**b) Oral presentation selected from abstract**

- 2024 *Identifying long-lived chondroprogenitors in the mouse fetal cartilage and their role in the compensation of growth perturbations.* EMBO workshop on Limb Development and Regeneration. Dresden, Germany. June 17-21
- 2023 *Identifying mesenchymal cell populations that are essential to compensate for cartilage perturbation.* 1<sup>st</sup> Int. Society of Regenerative Biology Meeting. Vienna, Austria 1-3 September.
- 2022 *Size matters: control of cell hypertrophy by the mTORC1-cholesterol axis during long bone catch up growth.* 16<sup>th</sup> Internat. Conference on Limb Development and Regeneration. Boston, USA August.
- 2019 *The limb, the brain and the placenta: unexpected partners in the maintenance of body proportions.* Victorian Cell and Developmental Biology Meeting. Melbourne, Australia 2019.
- 2017 *Long-bone catch-up growth involves intrinsic enhancement and systemic restriction of organ size.* 14<sup>th</sup> Internat. Conference on Limb Development and Regeneration. Edinburgh, Scotland. 2017.
- 2016 *Thinking outside the bone: regulation of longitudinal bone growth by knee joint-derived paracrine signaling.* Santa Cruz Developmental Biology Meeting 2016. Santa Cruz, CA.
- 2016 *Coordinated regulation of long bone growth through the integration of intrinsic and extrinsic cues.*

CDB Symposium "Size in Development: Growth, Shape and Allometry". Kobe, Japan. 2016.

2015 *Different unilateral insults to limb growth trigger distinct mechanisms of long bone size regulation*. 74<sup>th</sup> Annual Meeting of the Society for Developmental Biology. Snowbird, UT. 2015.

2010 *Diffusible signals interact with cell autonomous mechanism to establish the vertebrate limb P-D pattern*. 11<sup>th</sup> Internat. Conf. on Limb Development and Regeneration. Williamsburg, VA. 2010.

### c) Poster presentations

*Growing out of time: towards the generation of inter-species chimeras to unravel the link between developmental tempo and limb size*. EMBO Workshop: Timing mechanisms linking development and evolution. Barcelona, Spain. June 2022

*Cholesterol, mTOR and facultative stem cells: new regulators of bone catch-up growth*. 20<sup>th</sup> Annual HFSP awardees meeting (virtual). July 2021

*Multi-scale cell communication underlies the regulation of limb size and body proportions in mouse embryos*. Society of Developmental Biology (SDB) Meeting (virtual). 2020

*A new approach to study organ repair: cell responses in unilateral limb catch-up growth*. International Society for Stem Cell Research (ISSCR). Melbourne, June 2018.

*Different unilateral insults to limb growth trigger distinct mechanisms of long bone size regulation*. Gordon Research Seminar and Gordon Research Conference for Tissue Repair and Regeneration, New London, NH. June 2015.

*Studying left-right growth coordination of the vertebrate limbs (awarded the second prize for posters)*. 12<sup>th</sup> Santa Cruz Developmental Biology Meeting, UC-Santa Cruz, CA. Aug 2014.

*Studying left-right growth coordination of the vertebrate limbs*. 14<sup>th</sup> HFSP Awardees Meeting, Lugano, Switzerland, June 2014.

*Doxycycline-controlled and Recombinase-Activated Gene misexpressiON (DRAGON): an intersectional strategy for targeting precise and reversible gene expression in mice*. 17<sup>th</sup> International Congress of Developmental Biology, Cancun, Mexico. June 2013.

*Signals and time cooperate during late limb proximodistal patterning (awarded one of the prizes for graduate students and postdocs)*. 12<sup>th</sup> International Conference on Limb Development and Regeneration, Mont-Tremblant, Quebec, Canada. June 2012.

*Role of Retinoic Acid in Proximal-Distal Limb Patterning*. 10<sup>th</sup> International Conference on Limb Development and Regeneration, El Escorial, Spain. Aug 2008.

*Role of Retinoic Acid in Proximal-Distal Limb Patterning*. Joint Meeting of the British & Spanish Developmental Biology Societies, Sevilla, Spain. Apr 2008

### LEADERSHIP

**Peer-reviewer and editor for journals:** I am an ad-hoc reviewer for the journals *Science Advances*, *Elife*, *Current Biology*, *Developmental Biology*, *BMC Biology*, *Npj Regenerative Medicine*, *Cell Stress*, *Frontiers in Cell and Developmental Biology*, *Genesis* and *The Journal of Visualized Experiments*.

I have been guest editor for special issues of *WIREs Dev. Biology* (2020) and *Developmental Dynamics* (2021). I am currently review editor for *Frontiers in Cell and Developmental Biology* (2021 onwards) and Associate editor of *Npj regenerative Medicine* (June 2022 onwards).

**Peer-reviewer for international funding agencies:** I have served as peer-reviewer for the National Health and Medical Research Council (Australia), the UK Research and Innovation partners (UKRI), the European Research Council (ERC), the Austrian Science Fund (FWF), the FONDECYT program (Chilean National Science and Technology Commission) and the Czech national grant program (Czech Science Foundation).

**University Leadership:**

- 2024- Biosafety Officer. Dept. of Physiology, Development and Neuroscience (U. of Cambridge, UK).
- 2024- Member of PDN Microscopy Group. (U. of Cambridge, UK).
- 2024- Assessor of Junior Research Fellowships. Robinson College (U. of Cambridge, UK).
- 2023- Member of the Foster Talk Committee. Dept. of Physiology, Development and Neuroscience (U. of Cambridge, UK).
- 2023 Deputy ARMI representative at the FMNHS Research Committee (Monash University).
- 2023 Chair of the Group Leaders Meeting at the Australian Regenerative Medicine Institute
- 2022 Vice-chair of the Group Leaders Meeting at the Australian Regenerative Medicine Institute.
- 2021-2024. Co-organiser of the External Speaker Seminar Series at the Australian Regenerative Medicine Institute
- 2019-Present. Chair of the User Group and member of the steering group of the Monash Bioinformatics Platform.
- 2018-2022 Co-chair of ARMI's Early Career Researchers mentoring committee.
- 2018-Present Panel chair for 3 PhD students, and panel member for 6 PhD students.
- 2018-2021 Member of ARMI's HDR committee.

**Discipline Leadership - Conference activities:**

- 2024 Poster judge, Building and Rebuilding Complex Tissues symposium. U. of Cambridge.
- 2019 Poster judge, *Hunter Cell Biology Meeting*. Hunter Valley, NSW, Australia.
- 2018 Talk judge, *11<sup>th</sup> Victorian Cell and Developmental Biology Meeting*. Melbourne, Australia.
- 2015 Co-chair of the *Hilde Mangold Symposium*, at the International SDB meeting. Utah, USA.

**Discipline Leadership - scientific communication:**

- 2018-2020 Pre-print highlighter for the *preLights* initiative (Company of Biologists).
- 2018- Contributor to the online blog *The Node* (Company of Biologists).

**Disseminated technologies:** Our innovative genetic mouse lines have already been distributed to researchers in the Netherlands, Mexico and the US, and are available at JAX laboratory. Past and new vectors are available at the online repository Addgene.

## OUTREACH, TEACHING AND MENTORING

**Outreach to minorities:**

- 2013, 2014 Lab mentor for the Choose development program, funded by the National Science Foundation and organised by the Society of Developmental Biology to **promote recruitment of minorities** into PhD programs focused on Developmental Biology.

**Public outreach:**

- 2022 Interviewed by *Cells and Development*.
- 2021 Interviewed by *Development*.
- 2019 Interviewed by *The Sydney Morning Herald*.
- 2018 Interviewed by *The Age*, *Monash Lens* and *Scientific American*.
- 2018 Online post to commemorate the International Day of Women and Girls in Science.
- 2018 Panellist for a Career Orientation session organised by ECUSA (Spanish Scientists in USA).

**Teaching experience:**

- 2024- Lecturer of Functional Architecture of the Body (FAB) at the University of Cambridge for 1<sup>st</sup>-year medical students (Part IA).
- 2023- Histology demonstrator at the University of Cambridge for 1<sup>st</sup>-year medical students (Part IA).
- 2020, 2024 Lecturer. "Biotechnology Research Studies" unit for Masters of Biotechnology. Monash Univ.
- 2019 Lecturer. "Therapeutic approaches and biotech" unit. Masters of Biotechnology. Monash Univ.
- 2019 Academic supervisor. DEV3032 unit. Monash Univ.
- 2018 Academic supervisor. DEV3990 unit. Monash Univ.
- 2011 - 2012 Teaching Assistant. *Masters in Molecular Biomedicine, module in Cardiovascular Disease*. Autonomous University of Madrid. Module coordinator: Nadia Mercader, PhD.

**Mentoring experience:**

- 2024-2027 Supervisor of Ms. Emma Steijvers, PhD student at the University of Cambridge
- 2024 Supervisor of Mr. Ashiq Khader, MPhil student at the University of Cambridge
- 2024 Mentor of Mr Joel Witcher, Undergraduate Research Opportunities Program (UROP).
- 2023-2024 Supervisor of Ms. Emma Steijvers, MPhil student at the University of Cambridge
- 2023-2026 Supervisor of Mr. John Mains-Sheard, PhD candidate at Monash University.
- 2023 Supervisor of Honours student Mr Kailash Vinu and UROP student Boya Zhang (Monash).
- 2023 Mentor of Ms Boya Zhang, Undergraduate Research Opportunities Program (UROP).
- 2022-2025 Co-supervisor of PhD student Mr M. Baghi, PhD candidate at Monash University.
- 2022 Mentor of Ms Sarah Yang, Undergraduate Research Opportunities Program (UROP).
- 2022 Supervisor of Master students Mr Zhitong Chen, Sibó Yu and Ms Carren Thomas.
- 2021-2022 Supervisor of Master student Ms Yutong Chen.
- 2021 Supervisor of 2 Monash undergraduates via winter scholarships.
- 2021-2024 Supervisor of Mr Ehsan Razmara, PhD candidate at Monash University.
- 2020-2021 Supervisor of Master students Ms Nandita Suresh, Elizabeth Marquez García and Honours student Hojin Chang.
- 2020-2023 Co-supervisor of PhD student Mr A. Douek.
- 2019-2020 Thesis Supervisor of Ms Elham Ahmadzadeh, PhD candidate at Monash University.
- 2019-2020 Mentor of Ms Thy Nguyen, Undergraduate Research Opportunities Program.
- 2018-2019 Mentor of Mr Santiago Beltran Diaz, Undergraduate Research Opportunities Program
- 2018-2019 Supervisor of Ms Aditi Singh, master student at Monash, via a summer scholarship
- 2016 Laboratory Mentor of a French student sponsored by the Council on International Educational Exchange. Laboratory of Alexandra Joyner. *Developmental Biology Program, Sloan Kettering Institute for Cancer Research, New York, NY.*
- 2013-2014 Laboratory Mentor of **a minority student** from the *Choose Development Program* (see above).
- 2009 Laboratory Mentor of a master student in the laboratory of Miguel Torres as part of the CICERONE program. *Spanish National Center for Cardiovascular Research, Madrid, Spain.*

**References**

1. Miguel Torres, PhD  
PhD supervisor (2006-2012)  
Spanish National Center for Cardiovascular Research  
mtorres@cnic.es
2. Alexandra L. Joyner, PhD  
Postdoc supervisor (2012-2018)  
Memorial Sloan Kettering Cancer Center  
joynera@mskcc.org