

BIOGRAPHICAL SKETCH

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NAME: Chaves-Perez, Almudena

eRA COMMONS USER NAME: Chavespa

POSITION TITLE: Postdoctoral Fellow

EDUCATION/TRAINING *PhD*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
Athlone Institute of Technology, Ireland	BS	08/2010	06/2011	Biotechnology and toxicology
Francisco de Vitoria University, Spain	BS	09/2007	09/2012	Biotechnology
Francisco de Vitoria University, Spain	MS	09/2007	06/2012	Business administration
Universidad Autónoma de Madrid	MS	09/2012	06/2013	Molecular Biomedicine
National Cancer Research Centre (CNIO)/ Universidad Autónoma de Madrid	PhD	11/2013	02/2019	Molecular Science/ Regeneration/ Stem cells
Memorial Sloan Kettering Cancer Centre	Postdoctoral Fellow	02/ 2020	Date	Molecular Biology and genetics

A. Positions, Scientific Appointments and Honors***Positions and Scientific Appointments***

2020 -Date	Research Associate, Memorial Sloan Kettering Cancer Centre, New York State • Marie-Josée Kravis Women in Science Endeavor Postdoctoral Fellow • Leading Edge-HHMI Fellow • 2024 Aspen Cancer Conference Fellows • HHMI-Helen Hay Whitney Postdoctoral Fellow • Long-term EMBO- Postdoctoral Fellow
2013 – 2019	Graduate student, National Cancer Research Centre (CNIO), Madrid, Spain CNIO “La Caixa” International PhD Programme Fellowship
2012	Summer student, Department of Microbiology and Immunobiology, Harvard Medical School, Boston (US)
2012	Research scholar, Academic scholarship awarded by Ministerio de Educacion y Ciencia, Molecular Oncology group, Francisco de Vitoria University, Madrid, Spain
2011	Summer scholar, German Research Center for Environmental Health, and Head and Neck Research, Ludwig-Maximilians-University, Munich, Germany
2010	Summer scholar, JAE-Intro academic scholarship, National Biotechnology Centre (CNB), Madrid, Spain

Honors

2025	Fred Hutch Dr. Eddie Mendez Award
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2025	2025 MIT Biology Catalyst Fellow
2025-Date	Marie-Josée Kravis Women in Science Endeavor Postdoctoral Fellowship
2024	Leading Edge-HHMI Fellow
2024	2024 Aspen Cancer Conference Fellows
Sept.2021-2024	Helen Hay Whitney Postdoctoral Fellow (HHMI)
Jan.2021	Long-term EMBO postdoctoral Fellow
2020	XXI Pfizer Scientific Innovation Award in Basic Research Category
2019	Extraordinary PhD award by Universidad Autónoma de Madrid
2019	Antonia Nieto Award, honored by CNIO for the publication in the highest impact factor journal by a predoctoral researcher
2019	Ph.D awarded with high honors (Suma Cum Laude) by Universidad Autónoma de Madrid
2014	XI University Entrepreneur Award, Awarded by Parque Científico y Tecnológico de Madrid, Universidad Autónoma de Madrid and Centro de Iniciativas Emprendedoras
2013	CNIO “La Caixa” International PhD Programme Fellowship
2013	“Fundacion Ramon Areces” Academic Scholarship. Awarded by “Fundacion Ramon Areces to pursuing master studies
2012	Academic scholarships for undergraduate students from the Ministry of Education and Science
2011	Sumer scholar, German Research Center for Environmental Health, and Head and Neck Research, Ludwig-Maximilians-University, Munich, Germany
2010	JAE-Intro fellowship awarded by CSIC and the National Biotechnolgy Centre (CNB)
2007 – 2012	Academic Scholarships for brilliant undergraduate students from Universidad Francisco de Vitoria

B. List of publications

1. **Almudena Chaves-Perez**, Scott E. Millman, Sudha Janaki-Raman, John P. Morris IV, Yu-Jui Ho, Francisco M. Barriga, Clemens Hinterleitner, Jose Reyes, Valentin J. A. Barthet, Aye Kyaw, Dana Pe’er, Craig B. Thompson, Lydia W. S. Finley, Justin R. Cross, Scott W. Lowe. “*Dual Role of 2-Oxoglutarate Dehydrogenase in Lineage Specification during Tissue Regeneration*” **Nature**. **2025** (Accepted)
2. Scott E. Millman*, **Almudena Chaves-Perez***, Sudha Janaki-Raman, Yu-Jui Ho, John P. Morris IV, ChiChao Chen, Benjamin T. Jackson, Jossie J. Yashinskie, Riccardo E. Mezzadra, Varun K. Narendra, Tessa I. Devine, Timour Baslan, Sha Tian, Lydia W.S. Finley, Justin R. Cross, and Scott W. Lowe “*OGDH links TCA cycle metabolism to nucleotide production to create a therapeutic vulnerability in acute myeloid leukemia.*” **Blood**. **2025** Mar 27; 145(13):1422-1436
3. Caroline Broderick*, Riccardo Mezzadra*, Exequiel Sisso, **Almudena Chaves Perez**, Yu-Jui Ho, Janelle Simon, Amanda Kulick, Ximo Pechuan-Jorge, Rashi Raghulan, Felix Mbuga, Eric Rosiek, Eric Chan, Aveline Filliol, Ronan Chaligne, Elisa de Stanchina, Andrea Schietinger, Mallika Singh, and Scott Lowe. “*A RAS(ON) multi-selective inhibitor combination therapy triggers long-term tumor control through senescence-associated tumor-immune equilibrium in PDAC*”. **Cancer Discovery**. **2025** Apr 29;
4. Yaeger R, Mezzadra R, Sinopoli J, Bian Y, Marasco M, Kaplun E, Gao Y, Zhao H, Paula ADC, Zhu Y, **Perez AC**, [...] de Stanchina E, Lowe SW, Rosen N, Misale S. “*Molecular Characterization of Acquired Resistance to KRASG12C-EGFR Inhibition in Colorectal Cancer*”. **Cancer Discov**. **2023** Jan 9;13(1):41-55
5. Jin K. Kim, Chao Wu, Michael Del Latto, Yajing Gao, Seo Hyun Choi, Maria Kierstad, Charles-Etienne Gabriel Sauvé, Canan Firat, **Almudena Chaves-Perez**, [...]. Scott W. Lowe, Julio García-Aguilar, Paul B. Romesser, J. Joshua Smith. “*A new immunocompetent rectal cancer model to study radiation therapy*”. **Cell Rep Methods**. **2022** Nov 23;2(12):100353
6. Francisco M. Barriga*, Kaloyan M. Tsanov*, Yu Jui Ho, Noor Sohail, [...] **Almudena Chaves-Perez**, Dafna Bar-Sagi, Christine A. Iacobuzio-Donahue, Faiyaz Notta, Ronan Chaligne, Roshan Sharma, Dana Pe’er, Scott W. Lowe. “*MACHETE identifies interferon-encompassing chromosome 9p21.3 deletions as mediators of immune evasion and metastasis*”. **Nat Cancer**. **2022** Nov;3(11):1367-1385

7. **Almudena Chaves-Pérez***, Karla Santos-de-Frutos*, Sergio de la Rosa, Irene Herranz-Montoya, Cristian Perna, Nabil Djouder. "Transit-amplifying cells control R-spondins in the mouse crypt to modulate intestinal stem cell proliferation" **J Exp Med.** 2022 Sep 219 (11): e20212405.
8. Bernard H., Teijeiro A*, **Chaves-Pérez A***, Perna C., Djouder N. "Coxsackievirus B Type 4 Infection in β Cells Downregulates the Chaperone Prefoldin URI to Induce a MODY4-like Diabetes via Pdx1 Silencing" **Cell Rep Med.** 2020 Oct 20; 1(7): 100125.
9. **Chaves-Perez A**, Yilmaz M, Perna C, de la Rosa S, Djouder N. *URI is required to maintain intestinal architecture during ionizing radiation*, **Science** 2019 May 31;364(6443
10. **Chaves-Perez A**, Thompson S, Djouder N. *Roles and Functions of the Unconventional Prefoldin URI*. **Adv Exp Med Biol.** 2018;1106:95-108
11. **Chaves-Perez A**, Mack B, Maetzel D, Kremling H, Eggert C, Harreus U, et al. *EpCAM regulates cell cycle progression via control of cyclin D1 expression*. **Oncogene.** 2013;32(5):641-50

C. Research Support and/ or Scholastic Performance

Teaching experience

2021/ 2022	Teaching fellow in the Gerstner Sloan Kettering program (MSKCC)
2014	Teaching Fellow in Advanced Experimental Biochemistry II, Universidad Autónoma de Madrid
2015	Teaching Fellow in Advanced Experimental Biochemistry II, Universidad Autónoma de Madrid

Mentoring experience

2024	Engage Program – Supervision of Jadae Watson, Barnard Student, Columbia University, New York
2018	Erasmus+ Programme for higher education traineeships. Supervision of Olga San Roman, University of Jagiellonian University in cooperation with Centre for Innovative Development of Society (CIRS)