

Curriculum Vitæ
Belén Navarro-Rubio Coello de Portugal

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PROFESSIONAL EXPERIENCE

July 2026 —	Complex Radiation Oncology Fellow UT MD Anderson Cancer Center	Houston, United States
Jan 2026 — 30 June. 2026	Radiation Oncologist Consultant University of Navarra Clinic	Pamplona, Spain
Sept. 2020- Dec. 2025	Radiation Oncology Resident University of Navarra Clinic	Madrid, Spain
Feb. 2020 — Aug. 2020	COVID volunteer Madrid IFEMA temporary hospital	Madrid, Spain
Feb. 2019 — Jan. 2020	Spanish Residency exam preparation Personal study.	Madrid, Spain
Aug. 2018 - Jan. 2019	Research Assistant Diabetes Research Institute University of Miami Miller School of Medicine	Miami, USA
July. 2017 — July. 2018	STEP 1 preparation for ECFMG certification. Personal study	London, UK
Sept. 2011 — June. 2017	School of medicine Francisco de Vitoria University	Madrid, Spain

OTHER EDUCATION AND CERTIFICATION

Oct. 2020 - Oct 2026	PhD candidate Diabetes Research Institute University of Miami Miller School of Medicine University CEU San Pablo	Madrid, Spain
March 2024 — March 2025	Master's degree Radiation Oncology Tech Institute	Navarra, Spain
March 2024	USMLE STEP 3 – Passed 1st attempt. United States Medical Licensing Exams <i>ECFMG accreditation</i>	Madrid, Spain
Dec. 2023	USMLE STEP 2CK– Passed 1st attempt. United States Medical Licensing Exams <i>ECFMG accreditation</i>	London, United Kingdom
Jan 2019	Spanish Federal Medical Doctor - Passed MIR – Medical Residency Exam	Madrid, Spain
May 2018	USMLE STEP 1– Passed 1st attempt. United States Medical Licensing Exams <i>ECFMG accreditation</i>	London, United Kingdom

April 2017	USMLE STEP 2CS – Passed 1st attempt. United States Medical Licensing Exams <i>ECFMG accreditation</i>	Los Angeles, USA
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EARLY EDUCATION

Sept. 2008 - May 2011	High School Colegio San Pablo CEU	Madrid, Spain
Summers from 20 June 2002- Aug 8 2010.	Military Summer Camp Culver Military Academy <i>Graduated with high honors</i>	Indiana, USA
Sept. 2000 - May 2008	Primary and Middle School Colegio Orvalle	Madrid, Spain
Sept. 1995 - May 2000	British School Elementary School	Madrid, Spain

NATIONAL AND INTERNATIONAL OBSERVERSHIPS

Nov. 2025 - Dec. 2025	Radiation Oncology Observership St Jude Research Hospital	Memphis, USA
Oct. 2025 - Oct. 2025	Radiation Oncology Observership Florida Proton Therapy Institute	Jacksonville, FL
Sept. 2025 – Sept. 2025	Radiation Oncology Internship (Adaptive RT) Complejo Universitario de Navarra	Navarra, Spain
April 2017 - April 2017	Emergency Room Observership Jackson Memorial Hospital. Harrington Program.	Miami, USA
March 2017 - March 2017	Internal Medicine Observership University of Miami Hospital (UMH). Harrington Program.	Miami, USA
Feb. 2017 - Feb. 2017	Pediatric Surgery Observership Holtz Children's Hospital. Harrington Program.	Miami, USA
July 2016 - July 2016	Surgical ICU Observership Jackson Memorial Hospital. Harrington Program.	Miami, USA
July 2015 - July 2015	Neurosurgery Observership Jackson Memorial Hospital. Harrington Program.	Miami, USA

CONFERENCES, COURSES & SEMINARS

March 2024 – Dec 2026	MR-Linac (Unity Elekta) Training University of Navarra Clinic	Navarra, Spain
January 2024	Hereditary Cancer Course University of Navarra School of Medicine	Navarra, Spain
June 2023	SBRT and SRS Training Seminar HM San Chinarro Hospital	Madrid, Spain
January 2022	Evaluation and Assessment of Scientific Production University San Pablo CEU	Madrid, Spain
May 2022	Course on Data Analysis with R University San Pablo CEU	Madrid, Spain
February 2022	Evaluation and Assessment of Scientific Production University San Pablo CEU	Madrid, Spain
January 2022	Advanced Techniques in Search and Documentation Management Applied to Research University San Pablo CEU	Madrid, Spain
September 2020	Advanced CPR (cardio-pulmonary resuscitation) Updated January 2024 University of Navarra Clinic	Navarra, Spain
September 2020	Advanced Radiological Protection University of Navarra Clinic	Navarra, Spain
February 2020	XXII Symposium reviews on Cancer Spanish Society of Medical Oncology	Madrid, Spain
October 2019	Light sheet fluorescent microscope (LSFM) and Imaris software training University of Miami	Miami, USA
August 2018	CITI program – Laboratory animal Training University of Miami	Miami, USA
August 2018	Laboratory safety training University of Miami	Miami, USA
August 2018	Laser safety training University of Miami	Miami, USA
August 2018	UM OSHA's blood borne pathogens biomedical waste, latex allergy and TB training University of Miami	Miami, USA
August 2018	Biological safety University of Miami	Miami, USA
June 2018	Update on Research Methodologies Francisco de Vitoria University	Madrid, Spain
November 2016	4th International Conference of person-centered medicine – Speaker Francisco de Vitoria University	Madrid, Spain
April 2013	Introduction to Genetics and Evolution MOOC Duke University	Madrid, Spain
April 2013	Introducción to Mathematics and Biostatistics MOOC John Hopkins University	Madrid, Spain

SCIENTIFIC PUBLICATIONS

Ms Silvia Alvarez-Cubela , Ms Isabella Altillio , Dr Mayur Doke , Dr Dagmar Klein , Mr Alejandro Tamayo , Dr Oscar Alcazar , Dr Carlos Garcia Santana , Dr Mirza Qadir , Charles Garcia Alver , Mr Francis Cruz , Ms Olivia Biggs , Mr Jorge David Tovar Castro , **Dr Belen Navarro-Rubio** , Camillo Ricordi , Dr Alejandro Caicedo , Professor Peter Buchwald , Professor Ashutosh Agarwal , Dr Elisa Oltra , Ricardo Pastori- Pancreatic β -cell regeneration in situ by THR-123, a cyclic peptide with BMP-7-like activity – Nature communications, 16(1), 6121. <https://doi.org/10.1038/s41467-025-61534-2>.

Petroni G, Galassi C, Gouin KH 3rd, Chen HH, Buqué A, Bloy N, Yamazaki T, Sato A, Beltrán-Visiedo M, Campia G, Jiménez-Cortegana C, Shah A, Kirchmair A, Massa C, Wickenhauser C, de Andrea CE, **Navarro-Rubio B**, Serrano-Mendioroz I, Navarro Manzano E, Satty AM, Rippon B, Finotello F, Trajanoski Z, Zhou XK, Scandura JM, García-Martínez E, Ayala de la Peña F, Rodríguez-Ruiz ME, Seliger B, Sánchez-Margalet V, de la Cruz-Merino L, Basho RK, Shiao SL, McArthur HL, Formenti SC, Knott SRV, Galluzzi L. IL-17A-secreting $\gamma\delta$ T cells promote resistance to CDK4/CDK6 inhibitors in HR+HER2- breast cancer via CX3CR1+ macrophages. Nat Cancer. 2025 Jul 7. doi: 10.1038/s43018-025-01007-z. Epub ahead of print. PMID: 40624238.

Published Digital Poster - Motisi L, Lindegaard J, Reichl S, Willman J, Alex L, Gimeno Morales M, Tagliaferri L, La Milia MC, Salvati, Kretschmar, Guninski RS, Kamal S, Kroese T, **Navarro-Rubio B**, Martinez-Lage A, Echeveste Ucar M , , Petric P - *Variation of T-score determination in Locally Advanced Cervical Cancer* – ESTRO Conference 2024 (Radiation and Oncology European Society)

Presentation of Oral Communication - Barker G., Gimeno-Morales M., Sandoval M., **Navarro-Rubio B.**, Martinez-Lage A., Cambeiro M., Amaya E., Fuertes L., Fadrique S., Martinez-Monge R. Long-term oncological outcomes of HDR-BT-b on high-risk and very-high-risk prostate-cancer. SEOR (Spanish Society Radiation Oncology) Conference 2024.

Published Article - Giulia Petroni, Claudia Galassi, Kenneth H. Gouin, Hsiang-Han Chen, Aitziber Buqué, Norma Bloy, Takahiro Yamazaki, Ai Sato, Carlos Jiménez-Cortegana, Aagam Shah, Alexander Kirchmair, Chiara Massa, Claudia Wickenhauser, Carlos Eduardo de Andrea, **Belén Navarro**, Irantzu Serrano, Esther Navarro Manzano, Alexandra Satty, Brady Rippon, Francesca Finotello, Zlatko Trajanoski, Xi Kathy Zhou, Joseph M. Scandura, Elena García-Martínez, Francisco Ayala de la Peña, María Esperanza Rodríguez-Ruiz, Barbara Seliger , Víctor Sánchez-Margalet, Luis de la Cruz-Merino, Alice Y. Ho, Stephen L. Shiao, Heather L. McArthur , Silvia C. Formenti, Simon R.V. Knott, and Lorenzo Galluzzi. *IL17A-producing $\gamma\delta$ T cells support resistance to CDK4/6 inhibitors in HR + breast cancer via CX3CR1 + macrophages*. Journal for ImmunoTherapy of Cancer 2022;10;doi: 10.1136/jitc-2022-SITC2022.1144

Presentation of Oral Communication - M Gimeno Morales, A Ayestaran, J Blanco, N Rodriguez-Spiteri, L Ramos, R Martinez-Monge, **B Navarro-Rubio**, F Regueira, B Olartecoechea, M Cambeiro. *Long-term results of intraoperative multicatheter breast implant (IOMBI) for accelerated partial breast irradiation (APBI) on early breast cancer patients* – SEOR (Spanish Society of Radiation Therapy Oncology) Conference. Palma de Mallorca, Spain. 28-30 Sept.2022.

Presentation of Oral Communication - García-Martínez, E., Rodríguez-Ruiz, María E., Galluzzi, L., Serrano,I., Ayala de la Peña,F., Garate,E., de la Morena,P., Alvarez-Abril,B.,García Torralba,E., 1 Jimenez,C., **Navarro-Rubio, B.**, García Garre ,E., Petroni G. *Modificación del compartimento inmune circulante en el cáncer de mama luminal avanzado tratado con inhibidores de ciclinas*. SEOM (Spanish Society of Medical Oncology) Conference 2022.

Best Oral Communication - Pezonaga-Torres, A., Ruiz-Fernández De Córdoba, B., Moreno, H., Martín, S. Ayestarán, **Navarro-Rubio, B.**, Lecanda, F., Martínez-Monge, *Circulating tumor cells participate in Locoregional failure*. SEOR (Spanish Society Radiation Oncology) Conference 2021.

Published Article - Qadir, M.M.F.; Alvarez-Cubela, S.; Klein, D.; Van Dijk, J.; Anquela, RM, Lanzoni G, Sadiq S, Moreno-Hernandez YB, **Navarro-Rubio, M.B.**; Garcia, M.T.; Diaz, A.; Johnson, K.; Sant, D.; Ricordi, C.; Griswold, A.; Pastori, R.L. & Dominguez-Bendala, J. (June, 2019). 'Single cell resolution analysis of the human pancreatic ductal progenitor cell niche', *Cell Stem Cell*. DOI: 10.1073/pnas.1918314117

Presentation of Oral Communication - Qadir, M.M.F.; Álvarez- Cubela, S.; Van Dijk, J.; Weitz, J.; Cechin, S.; Klein, D.; Tomayo, A.; Almaca, J.; Caicedo, A.; Kusmartseva, K.; Hiller, H.; Beery, M.; Johnson, K.; Moreno Hernandez, Y.; **Navarro-Rubio, M.B.**; Sadiq, S.; Ricordi, C.; Pugliese, A.; Fraker, CA.; Pastori, R.L. & Domínguez-Bendala, J. (Junio, 2019). 'Real-time Monitoring and High-resolution Analysis of Human Pancreatic Ductal Plasticity', *American Diabetes Association 79th Scientific Sessions*, San Francisco (CA), EE.UU. Diabetes. June 2019.

Presentation of Oral Communication - Qadir, M.M.F.; Álvarez-Cubela, S.; Van Dyk, J.; Klein, D.; Johnson, K.; Moreno Hernandez, Y.; **Navarro-Rubio, M.B.**; Sadiq, S.; Ricordi, C.; Pastori, R.L. & Domínguez-Bendala, J. 'RNAseq of carbonic anhydrase II (CAII)- negative human major pancreatic ductal cells confirms progenitor-like phenotype', *Network for Pancreatic Organ Donors with Diabetes (nPOD) 11th Annual Scientific Meeting*, Hollywood (FL), USA. February 2019

Poster Communication - Silvia Alvarez-Cubela, Mirza Muhammad Fahd Qadir, Jasmijn Van Dyk, Dagmar Klein, Kevin B. Johnson, Yaisa Beatriz Moreno Hernandez, Hendrik Veltman, **Maria Belén Navarro-Rubio**, Michael Garcia, Ana de Diego Diaz, Camill Ricordi, Ricardo Luis Pastoril, and Juan Dom inguez-Bendala - "Pancreatic progenitor cells in T1D and T2D subjects and in non-human primates. Published Poster in Surgery Research Day, University of Miami: Poster. Miami, Florida, USA. University of Miami: 2019.

Presentation of Oral Communication - Qadir, M.M.F.; Álvarez-Cubela, S.; Van Dyk, J.; Klein, D.; Johnson, K.; Moreno Hernandez, J.; **Navarro-Rubio, M.B.** (Febrero, 2019). 'scRNAseq of human ALK3-expressing major pancreatic ductal cells confirms progenitor-like phenotype', *Network for Pancreatic Organ Donors with Diabetes (nPOD) 11th Annual Scientific Meeting*. Hollywood (FL), USA. 2019.

HONORS AND AWARDS

May 2017	Optimus award winner Francisco de Vitoria University <i>Award granted to the best student of Medical School</i>	Madrid, Spain
2011-2016	School of medicine Annual Academic Achievement Award Francisco de Vitoria University	Madrid, Spain
May 2015-Sept. 2016	University General Secretary of the Students Council Francisco de Vitoria University	Madrid, Spain
Oct. 2014-June 2017	State Medical School Representative Medical Student State Council (CEEM)	Spain
Sept. 2013-June 2017	Student Class Representative Francisco de Vitoria University	Madrid, Spain
August 2010	Highest female rank at Culver Military academy Culver Military Academy	Indiana, USA
Sept. 2008	Graduated with Honors - Middle School Award Consejería de Educación. Comunidad de Madrid	Madrid, Spain

LANGUAGES

Spanish	Native
English	Native

REFERENCES

Juan Domínguez-Bendala	Stem Cell Development for Translational Research Director <i>Diabetes Research Institute</i> <i>University of Miami Miller School of Medicine</i> Email: jdominguez2@med.miami.edu
Javier Aristu Mendioroz	Radiation Oncology Director <i>Clínica Universitaria</i> <i>University of Navarra</i> Email: jjaristu@unav.es
Ignacio Azinovic Gamo	Radiation Oncology Codirector - Pamplona <i>Clínica Universitaria</i> <i>University of Navarra</i> Email: lazinovicga@unav.es
Fernando Caballero Martínez	Dean – School of Medicine <i>Francisco de Vitoria University</i> Email: f.caballero@ufv.es

PERSONAL STATEMENT

I am a radiation oncologist whose training has been shaped by a deliberate effort to work across two medical systems, and by an early conviction that the questions worth asking in oncology sit at the boundary between the laboratory and the clinic.

I completed my medical degree at Francisco de Vitoria University in Madrid between 2011 and 2017. During those years I sought clinical exposure in the United States through the Harrington Program at the University of Miami and the Jackson Memorial Hospital system, rotating over three consecutive summers in neurosurgery, surgical intensive care, pediatric surgery, internal medicine and emergency medicine. That exposure led me to pursue the United States Medical Licensing Examination pathway alongside my Spanish training. I passed Step 2 CS in Los Angeles in 2017, Step 1 in London in 2018, Step 2 CK in Madrid in 2023, and Step 3 in Fort Lauderdale in March 2024 — each on the first attempt — and obtained ECFMG certification.

Between August 2018 and January 2019 I worked as a research assistant at the Diabetes Research Institute at the University of Miami Miller School of Medicine, contributing to projects in diabetes and metabolic disease. The experience was formative in a way I did not anticipate: it gave me a working understanding of how translational research is actually conducted, and it established the collaboration that would later become my doctoral work. I am currently a PhD candidate through a joint program between CEU San Pablo University and the Diabetes Research Institute, running from October 2020 to October 2026.

I passed the Spanish National Residency Examination (MIR) in January 2019 and began specialty training in Radiation Oncology at Clínica Universidad de Navarra in September 2020, completing the program in December 2025 at one of Spain's leading academic medical centers. During the final year of residency I sought additional exposure to advanced radiotherapy techniques: a one-month adaptive radiotherapy internship at Complejo Hospitalario de Navarra in September 2025, an observership at the University of Florida Health Proton Therapy Institute in Jacksonville in October 2025, and an observership in pediatric radiation oncology at St. Jude Children's Research Hospital in Memphis between November and December 2025. I also completed a Master's degree in Radiation Oncology through Tech Institute between March 2024 and March 2025.

Teaching has run in parallel throughout. I have served as a teaching assistant at the University of Navarra School of Medicine since October 2020, and since February 2020 I have mentored Spanish medical students preparing for the USMLE examinations at Francisco de Vitoria University — work that grew directly out of my own experience navigating that pathway, and which I have found unexpectedly clarifying for my own practice.

In January 2025 I took up a position as Radiation Oncologist Consultant at Clínica Universidad de Navarra in Pamplona, combining clinical practice, multidisciplinary oncological care, and academic activity.

I am currently completing a Complex Radiation Oncology Fellowship at The University of Texas MD Anderson Cancer Center, a selective program approved by the Texas Medical Board as a Non-Standard Training Program, which accepts two to four physicians each year. My rotations span genitourinary, breast, gastrointestinal, sarcoma and melanoma, central nervous system, and pediatric malignancies, alongside training in technically demanding modalities including proton therapy, brachytherapy and stereotactic body radiotherapy, and an independent research project required of all fellows.

Taken together, these years have given me something I could not have acquired within a single system: an understanding of how the same cancer is approached differently depending on where a patient happens to be treated, and of which of those differences are matters of evidence and which are matters of local convention. That perspective is what I hope to carry into the next stage of my career.