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Nuria obtained her B. Sc. Degree in Chemistry, and her Ph.D. Degree (1993) at the UPV/EHU on the synthesis of isoquinoline alkaloids under the supervison of Prof. E. Lete and Prof. E. Domínguez. After postdoctoral research on directed ortho-metalation and cross-coupling reactions with Prof. Victor Snieckus at the University of Waterloo (Canada, 1994–1995), she returned to the Dept. of Organic Chemistry II of the UPV/EHU in Bilbao (1995), contributing to the development of new research lines within the group led by Prof. E. Lete. Then, she was promoted to Senior Lecturer (Prof. Titular) in 1998, and to Full Professor (CU) in 2010. Together with Prof. E. Lete, she has led the group "Organometallics in synthesis", recognized as Consolidated Research Group by the Basque Government since 2000. Following Prof. E. Lete's retirement in 2026, she has assumed full leadership of the group. Her initial research lines on organolithium chemistry, including ligand-mediated enantioselective variants, have evolved to transition metal catalysis. The group has developed Pd(0) catalyzed alkenylation (MH-type) and arylation reactions, including also cascade processes. Diastereo and enantioselective variants have also been developed. More recently her interests have moved to C-H activation mediated by Pd(II), studying the alkenylation of (hetero)arenes. Currently, the use of more abundant and less toxic 3d metals, such as Cobalt, is one of her research lines, in which the group has contributed studying hydroarylation, allylation and aminocarbonylation reactions. Overall, her research focuses on developing methodologies based on organometallic chemistry and asymmetric catalysis applied to the synthesis of biologically relevant heterocyclic systems, natural products, and active pharmaceutical ingredients. Furthermore, she participates in interdisciplinary projects integrating computational chemistry and machine learning (ML) tools for reactivity prediction and the design of biologically active molecules.

She has participated in publicly funded research projects continuously since 1990 (including 10 national projects since 1996) and served as co-Principal Investigator (PI) on three recent national grants (CTQ2016, PID2019, PID2022). She is currently the sole PI of the recently awarded national project (PID2025). Additionally, she has led or collaborated on contracts with chemical companies (MAXAM SA, Petronor) and multidisciplinary partners (Virtualware, HiB), serving as PI on two of these industrial contracts. More recently, she has been involved in collaborative projects with industrial partners and technology centers funded by the ELKARTEK program of the Basque Government. These targeted projects focus primarily on drug Discovery, covering topics such as neuropsychiatric diseases, calmodulinopathies, and MOF-based drug delivery systems for gastrointestinal cáncer, and, more recently, the development of novel electrolytes for lithium batteries. These initiatives involve collaborations with institutions such as EHU, Instituto Biofisika (CSIC- EHU), BCMaterials, Instituto Biodonostia, Instituto Biocruces, TECNALIA, the Donostia International Physics Center (DIPC), GAIKER, TEKNIKER, BCAM, and CIC EnergiGUNE.

To date, she has authored over 100 publications in indexed journals, book chapters, and reviews, along with more than 100 conference communications. She has consistently demonstrated a strong commitment to researcher training, having supervised 19 Ph.D. theses (8 with International Mention and 2 awarded Extraordinary Doctoral Awards). Former doctoral students under her supervision have secured positions at universities and research institutes in Spain [CIDETEC, UPV/EHU, ISQCH (U. Zaragoza–CSIC)] and abroad (Salahaddin University, Iraq), as well as scientific roles in the pharmaceutical and chemical industries [Syncom BV (Groningen, NL), TH Company, Lucart (Bizkaia), PharmaMar (Madrid), Praxis Pharmaceutical, I+Med (Álava), and TEVA Pharma (Zaragoza)]; others have pursued careers in secondary education and technical roles. She has also supervised over 60 Master's and Bachelor's students.

She has served on national research evaluation committees [including ANECA panels for the evaluation of research activity (Sexenios) in 2022 and 2023, and AEI panels for the Ramón y Cajal (2024) and Juan de la Cierva (2025) programs] as well as international panels [External Reviewer for the ANR (France, 2012) and FWO (Belgium, 2017)]. She also regularly acts as a reviewer for prominent scientific journals (ACS, RSC, Wiley, Thieme, Elsevier). Since 2012, she is Director of the Master's Program in Synthetic and Industrial Chemistry, a joint degree offered by UPV/EHU, the University of Valladolid, and UPNA. Notably, from 2006 to 2010, she served as Director of the Postgraduate Studies and Continuing Education Office at UPV/EHU, where she oversaw the strategic implementation of Master and Ph.D. programs across the university..

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