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Obtained her B. Sc. Degree in Chemistry, and her Ph.D. Degree (1993) at the University of the Basque Country on the synthesis of isoquinoline alkaloids (protoberberine and benzo[c]phenanthridines) under the supervision of Prof. E. Lete and E. Domínguez. After post-doctoral research at the University of Waterloo (Ontario, Canada) with Prof. Victor Snieckus (1994-1995), on directed *ortho*-metalation (DoM) and cross-coupling reactions, she returned to the Department of Organic Chemistry II of the University of the Basque Country in Bilbao (1995), contributing to the development of new research lines within the group led by prof. E. Lete. Then, she was promoted to Associate professor (Prof. Titular) in 1998, and to Full Professor (CU) in 2010. Together with Prof. E. Lete, she is now leading the group “Organometalicos en Síntesis” (organometalics in synthesis), recognized as Consolidated Research Group by the Basque Government since 2000. Currently, this group is part of the Consolidated Group “Metal Catalysis and Organocatalysis” led by Prof. E. Lete and Prof. J. L. Vicario (2022-2025). 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 moved to C-H activation mediated by Pd(II), studying the arylation and alkenylation of arenes and heteroarenes. 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 intramolecular alkene hydroarylation reactions. As a summary, her current research interests are focused on the development of methodology based on organometallic chemistry and asymmetric catalysis, and applied to the synthesis of heterocyclic systems, potentially active compounds, natural products or drugs. She also participates in interdisciplinary projects that involve computational chemistry and machine learning (ML) tools for reactivity prediction, and for the design of biologically active molecules.

She has taken part of research projects with public funding since 1990 (9 national projects since 1996), and she is co-Principal Investigator (co-PI) of the last three projects (CTQ2016, PID2019, PID2022). She has also participated in contracts with chemical companies (MAXAM SA, Petronor), and also with multidisciplinary partners (Virtualware, HiB), being PI of two of these contracts. She has also been involved in an interdisciplinary network connecting several University and company research groups (ELKARTEK program, Basque Government). As a result, she has authored over 95 publications in indexed journals, book chapters and reviews, and > 90 communications to conferences. Training of researchers has also been a constant, and thus, she has supervised 19 PhD thesis and >55 Master/BSc students.

Besides, she is since 2012 she is Responsible for the Master program in Synthetic and Industrial Chemistry, a joint program offered by the University of the Basque Country with the University of Valladolid and the Public University of Navarra. Her more relevant contribution in University management has been the position as Director of the Postgraduate studies and Continuing Education Section, from 2006 to 2010, when she was responsible for the implementation strategy of all Master and PhD programs at the UPV/EHU.

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