

JOSÉ BARLUENGA MUR

EDUCATION:

- * B.S. 1963 University of Zaragoza (Spain)
- * Ph.D. 1966 University of Zaragoza (Advisor: Prof. V. Gómez Aranda)
- * Postdoctoral Stay: 1967-1970: Max-Planck Institut für Kohlenforschung, Mülheim a.d. Ruhr (Germany), (Advisor: Prof. H. Hoberg)

PROFESSIONAL POSITIONS:

- * 1967-1970: Postdoctoral Fellowship (Max-Planck Institut für Kohlenforschung, Mülheim a.d. Ruhr, Germany)
- * 1970-1972: Research Associate (CSIC, Zaragoza)
- * 1972-1975: Associate Professor (University of Zaragoza)
- * 1975- Professor of Organic Chemistry (University of Oviedo)
- * 1992- Director of the Instituto Universitario de Química Organometálica "Enrique Moles" (University of Oviedo)

CURRENT AREAS OF RESEARCH INTEREST:

- * Enantioselective carbo- and hetero-cyclization reactions.
- * Design of new synthetic methodologies based on transition metal reagents. Stoichiometric and catalytic processes.
- * New transformations without assistance of transition metals: "carbon-carbon" and "carbon-nitrogen" coupling reactions and oxidation processes in water.
- * Design and synthesis of new molecular probes for tracing (in vivo) and treatment of amyloid diseases.
- * Bioactive compounds: preparation of new molecules with antitumoral properties.

OTHER DATA OF INTEREST:

- * Professor Barluenga has published 540 research papers and has been the advisor of 92 Ph.D. Thesis. Most of the papers have been published in: *Angewandte Chemie* (28, three considered as VIP, three as Hot Paper and one deserved the front page in the communications section), *Chemistry. A European Journal* (25, two of them deserving the front page in the articles section), *Journal of Organic Chemistry* (60), *Journal of the American Chemical Society* (31), *J.C.S. Chemical Communications* (70), *Synlett* (14), *Synthesis* (77), *Tetrahedron Letters* (64), *Organic Letters* (12). In any search engine it is possible to find that his works are continuously cited and is a reference in his field.
- * So far, eleven former students of Prof. Barluenga have gained the Catedrático level (Professor of Organic Chemistry) in several universities of Spain, more than 20 are Profesores Titulares and numerous researchers develop their work at the CSIC and private companies, mainly in the pharmaceutical area. His group currently includes 20 graduate students and several postdoctoral fellows from Germany, France, Italy, Argentina and Spain.
- * Professor Barluenga is regularly receiving many invitations from academic and industrial institutions to deliver lectures in Spain and abroad. It is most remarkable his participation as plenary/invited lecturer in the following scientific meetings: *5th IUPAC Symposium on Organometallic Chemistry directed towards Organic Synthesis* (Florence, Italy, 1989); *8th IUPAC Conference on Organic Synthesis* (Helsinki, Finland, 1990); *Gordon Conference (Organic Reactions and Processes)* (New Hampton, USA, 1994); *10th IUPAC Conference on Organic Synthesis* (Bangalore, India, 1994); *15th IUPAC Congress of Heterocyclic Chemistry* (Taipei, Taiwan, 1995); *10th FEChem Conference on Organometallic Chemistry* (Parma, Italy, 1995); *The 5th International Conference on Heteroatom Chemistry* (London, Canada, 1998); *34th Euechem Conference on Stereochemistry* (Bürgenstock, Alemania, 1999); *10th IUPAC Symposium on Organometallic Chemistry Directed towards Organic Synthesis* (Versailles, Francia, 1999); *3rd International Forum on Chemistry of Functional Organic Chemistry* (Tokio, Japón, 2000); *8th International Conference on New Aspects of Organic Chemistry* (Kyoto, Japón, 2000); *New Challenges of Organic Synthesis in the 21st Century* (Nápoles, Italia, 2000); *15th Lakeland Symposium: Grasmere '01. Royal Society of Chemistry, Perkin Division, Heterocyclic Group* (Grasmere Village, UK, 2001); *ACS ProSpectives 2002. Process Chemistry in the Pharmaceutical Industry* (Barcelona, Spain, 2002); *3rd Annual Florida Heterocyclic Course and Conference* (Gainesville, Florida, USA, 2002); *Gordon Conference 2002, Heterocyclic Compounds*. (Salve Regina University, Newport Rhode Island, USA, 2002);

1^{er} Simposio Científico Fundación Lilly, Avances recientes en síntesis orgánica (Madrid, Spain, 2002); *Transmediterranean Colloquium on Heterocyclic Chemistry* (Bari, Italy, 2002); *XXIX Reunión Bienal de Química* (Madrid, 2003); *VII Semana Científica "Antonio González"* (La Laguna, 2003); *Chemistry-A European Conference: Stimulating Concepts in Chemistry*, (Strasbourg, France, 2005). For the last six years he has participated at the summer University UIMP, two of them as lecturer and the last four as director of the school of organometallic chemistry. He has given more than 200 lectures in universities and research centres all around the world; among them it is worth to mention: **Germany** (Max Planck Institut für Kohlenforschung, Universities of Bochum, Bonn, Essen, Münster, Heidelberg or Köln, and the BASF en Ludwinsthafen); **USA** (SUNY at Buffalo, Massachusetts Institute of Technology, Eli Lilly and Co.-Indianapolis, Indiana University y Purdue University in Indiana, Zeneca Pharmaceuticals and DuPont in Delaware; UCLA and The Scripps Research Institute in California); **France** (Universities of Bordeaux, Rennes, Nantes, Rouen, Université Claude Bernard Lyon 1, Ecole Normale Supérieure de Paris, Université de Paris XI-Centre d'Orsay, Université de Reims Champagne-Ardenne, Université de Strasbourg 1, Institut de Chimie Moléculaire d'Orsay, Paris, Université Pierre et Marie Curie-Paris VI, Université Paul Sabatier, Toulouse, Université de Rennes 1, Ecole Polytechnique, Palaiseau).

- * At present, Professor Barluenga is the Director of the *Instituto Universitario de Química Organometálica "Enrique Moles"* at the University of Oviedo.
- * Since 1989 he maintains a tight collaboration with **Lilly Co.** in developing new procedures for the synthesis of organic molecules of special interest, and currently he does consulting for the company. Recently, a formal cooperation with **Aventis** has been signed.
- * The bis(pyridine)iodonium (I) tetrafluoroborate reagent developed at the laboratory of Professor Barluenga is now a commercially available reagent from major chemical suppliers like Aldrich and Novabiochem, and also from national companies such Galchimia.
- * He worked for the Government by accepting positions that were crucial at that time for the future of the research in Spain. In this context, he played a decisive role as President of the Chemistry Committees for the evaluation of research projects (1983-86) and for the evaluation of scientific work of the Spanish researchers (1990-91).

AWARDS and HONORS:

- * **Research Award** of the "**Alexander von Humboldt**" Foundation, FRG (1989, First Edition).
- * **Solvay Award** from Spanish CEOE (1990).
- * **Dupont Award** from Spain (1991, First Edition)
- * **Iberdrola Award for Science and Technology** (1996)
- * Recipient of the **Gold Medal** from the **Spanish Society of Chemistry** (1999)
- * **Doctor Honoris Causa** by the **University of Alcalá** de Henares (2000)
- * **National Award of Chemical Science and Technology** "Enrique Moles" (2001, First Edition)
- * **Foundation García-Cabrero Award** (2002)
- * **Hermanos Elhuyar-Hans Goldschmidt Award** (2005)
- * **Award Rey Jaime I of basic investigation** (2005)
- * **Syntex Distinguished Lecture** (University of Colorado, 1996)
- * **Zeneca Lecture** (Ohio State University, 1996)
- * **Upper Rhine Lecture** (Basel, Karlsruhe, Freiburg, Mulhouse, 1997)
- * **Merck Lecturer** (Universities of Cambridge, Oxford, Nottingham, University College London, 1999)
- * **Novartis Chemistry Lecturer 2003-2004** (Basilea, Viena, Londres)
- * **Merck-Sharp & Dohm 2002-2003** (25000 \$) y **2003-2004** (25000 \$) unrestricted award to support research

SCIENTIFIC POSITIONS:

- * Member of the Honorary Advisory Board of Synlett from 1989
- * Member of the Advisory Board of Bulletin de la Société Chimie de France from 1992 to 1997
- * Member of the Advisory Board of New Journal of Chemistry from 1998
- * Member of the Advisory Board of Journal of the Chemical Society, Perkin Trans. 1 from 1993
- * Co-opted Member of the Organic Division Committee of IUPAC from 1993
- * Member of the Advisory Board of European Journal of Organic Chemistry from 2001
- * Member of the Advisory Board of Advanced Science & Catalysis from 2001.

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