



## Part A. PERSONAL INFORMATION

CV date	15/05/2025
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First and Family name	Xavier Gil Mur		
ID number	43394027L	Age	62
	Orcid CODE	0000-0002-6824-1412	

### A.1. Current position

Name of University/Institution	Universitat Politècnica de Catalunya		
Department	Ciència i Enginyeria de Materials		
Faculty	Escola d'Enginyeria Barcelona Est		
Address and Country	Avda. Eduard Maristany 16 08019-Barcelona.		
Phone number	660607815	email	<a href="mailto:javier.gil.mur@upc.edu">javier.gil.mur@upc.edu</a>
Current position	Full Professor	Starting date	18/06/1999
UNESCO codes	331200 - Materials technology, 331400 - Medical technology		
Keywords	Biomaterials, Metals, Titanium, Dental Implants, Orthodontics, Biomineralization, Mechanical properties, Osseointegration.		

### A.2. Education

Degree	University	Year
Llicenciada (BSc + MSc) in Chemistry. (1 <sup>st</sup> in promotion speciality Metallurgy).	Universitat de Barcelona	1986
Tesina de grado. Chemistry (Materials Science)	Universitat de Barcelona	1987
PhD in Chemistry. (stage in University Southampton UK)	Universitat de Barcelona.	1989

### A.3. Previous professional experience

Position	University	Years
Assistant Professor, (Professor Associat, Temps parcial)	Universitat Politècnica de Catalunya	1988-1989
Assistant Professor (Professor Associat, Temps complet)	Universitat Politècnica de Catalunya	1989-1992

Associate Professor (Professor Titular d'Universitat)	Universitat Politècnica de Catalunya	1992-1999
Full-Professor (Catedràtic d'Universitat)	Universitat Politècnica de Catalunya	1999-2015
Vicerector Research and Innovation	Universitat Politècnica de Catalunya	2008-2012
Vicerector Scientific Policy	Universitat Politècnica de Catalunya	2012-2015
Comissionat per la creació del nou Campus Diagonal-Besòs.	Generalitat de Catalunya- Universitat Politècnica de Catalunya	2015-2016
Director de l'Escola Universitària d'Enginyeria Tècnica Industrial de Barcelona		
Rector	Universitat Internacional de Catalunya (two terms)	2016-2021
Full Professor (Sabbatical year)	Universitat Internacional de Catalunya	2021-2022 2022-2025
Director Bioengineering Institute of Technology		
Full Professor (Catedràtic funcionari)	Universitat Politècnica de Catalunya	2025-
Delegat del Rector al Campus Diagonal-Besòs	Universitat Politècnica de Catalunya	2025-

#### A.4. Institutional Responsibilities

- 1994-2000. **Secretary of the Department** of Materials Science and Metallurgical Engineering of the Technical University of Catalonia since November 1994. Renewed in the post of Secretary at the Consell de Department of 5 December 1997 for a further three years.
- 2001-2005. **Director of the Barcelona Section of the Department** of Materials Science and Metallurgical Engineering of the Polytechnic University of Catalonia. Also responsible for the Materials Engineering intensification at the School of Industrial Engineering of Barcelona.
- Director of the Biomaterials Division of the **Biomedical Engineering Research Centre (CREB)** of the Universitat Politècnica de Catalunya, which belongs to the IT Network of the Generalitat of Catalonia ("Network of University Centers for Technological Research Support").
- 2003-2005. Member of the **Permanent Committee of the CSAPIU** (Commission for the Selection and Evaluation of University Teaching Staff and Researchers) of the Polytechnic University of Catalonia.
- 1995-2005. Member of the **School Board** representing the Department of Materials Science and Metallurgical Engineering (ETSEIB) and in the general senate (**Claustro General**) of the Universitat Politècnica de Catalunya.
- 2004-2008. **Expert** in Materials Science and Technology of the **Interministerial Commission for Science and Technology**. CICYT. (Spanish government). **Drafter** of the National Materials Plan (2004-2008) calls for proposals, consultancy and project evaluation.
- 2006-2009. **Vicerrector de Investigación y Innovación Tecnológica** de la Universidad Politécnica de Cataluña. Toma de posesión 29 de Marzo de 2006.

- 2009-2011. **Vicerrector de Política Científica** de la Universidad Politécnica de Cataluña. In the absence of the Rector, it was the Vice-Rector heading the Board of Directors.
- 2010-2011. During these years I was the representative of the vice-rectors of research of all the universities of the Catalan university system for the negotiation with the ministry of the policies with the CERCA research centres, ICREA policy, justification of projects, etc.
- 2013-2015. The Generalitat de Catalunya from the department of Economy and knowledge commissioned me to carry out the academic project of the new Campus of Industrial Engineering in Diagonal-Mar Besós. The conseller Dr. Andreu Mas-Colell and the General Director of Universities Dr Luis Llofre entrust me:
  1. To carry out an academic project that brings together the research groups of the ETSEIB in Materials Science, Chemical Engineering, Applied Physics and Energy in research buildings on the Campus.
  2. To integrate the Escola Universitària d'Enginyeria Tècnica Industrial de Barcelona, which belongs to the Diputació de Barcelona, into the structure of the Polytechnic University of Catalonia.
  3. To obtain accreditation by the AQU for the transfer of bachelor's degrees and the teaching of master's degrees in order to have the entire training cycle on this campus.
  - 4.. To carry out the teaching and research project of the Campus by stimulating collaboration between all the members of the Campus.
  5. Transfer and optimisation of the Nanoengineering Centre, which should serve as general research services for the Campus.
  6. Distribution of teaching and research spaces for the different teaching and research groups.
  7. Establish collaboration with the CERCA research centres on the Campus, especially IREC (Institut de Recerca en Energia de Catalunya) and IBEC (Institut de Bioenginyeria de Catalunya).
  8. To be the director of the School of Engineering until its integration into the UPC. This assignment was carried out by the CEIB (Consorci de la Escola Universitària d'Enginyeria Tècnica Industrial de Barcelona de Barcelona, which is presided over by the Generalitat de Catalunya).
  9. Provide the campus, in accordance with the B-Tec, with residences for professors and students, agreements with the city council for the use of sports equipment, restaurants, car parks, etc.
  10. Establish relations with the neighbourhood councils for the integration of the Campus into the neighbourhood.
  11. Explore the creation of a business campus where technology-based companies that complement the Campus could go.
  12. Follow-up of the construction works of buildings A, C and I and lay the foundations for future construction. Acquisition of teaching and research laboratory equipment necessary for the development of the Campus as a campus of excellence. The budget was 113 million euros.

To carry out this assignment, I was appointed **Commissioner of the Generalitat de Catalunya** for the Diagonal-Besòs Campus, **Delegate of the Rector** of the UPC in the Diagonal-Besòs Campus and **Director of the Escola Universitària d'Enginyeria Tècnica Industrial de Barcelona**.
- 2015-2018, 2018-2021. **Rector** of the Universitat Internacional de Catalunya. Two terms.
- 2017. **President of the Lluís Vives network**. It brings together 22 universities in the Pyrenees-Mediterranean region that promotes the cohesion of the university community and strengthens the projection and impact of the University in society.

- 2015-2018. Due to my status as Rector, I have been a member of the **AQU**, chosen by my colleagues to represent in the **CAPCIT** (Advisory Council of the Catalan Parliament on Science and Technology), representative of the private universities of the Catalan university system for the **Pacte Nacional per a la Societat del Coneixement** chaired by the Generalitat de Catalunya.
- 2017-2020. I have been **chairman of the Comissió de Política Lingüística** for three years in the Consell Interuniversitari de Catalunya. The mandates are for one year, but the Directorate General asked me to continue in the position of president.
- I have been a member of CRUE in my position as Rector and was asked by Presidents Segundo Piriz and Gómez-Villamandos to participate in the EUA European Universities Association.
- 2022-2025. Director of Bioengineering Institute of Technology.
- 2025- Reincorporation at the Universitat Politècnica de Catalunya. Catedràtic Universitat.
- 2025. Delegat del Rector al Campus Diagonal-Besòs.

## Part B. CV SUMMARY.

After obtaining a bachelor's degree in Chemistry from the Universitat de Barcelona, I completed my doctorate at the Universitat Barcelona with different stages in University of Southampton (UK) and University of California Los Angeles (UCLA), under the supervision of Professor J.M.Guilemany. At the moment I am Full-Professor in of Materials Science and Metallurgical Engineering with 5 five-year teacher (quinquennis) and 5 six-year research periods (sexennios). I was director of the research group "Biomaterials, Biomechanics and Tissue Engineering" with 32 researchers until 2015. The group has been recognised by the Generalitat de Catalunya with a rating of 6.97/7 within the 10 best research groups in Catalonia.

I was elected Director of the section of the Department of Materials Science and Metallurgical Engineering at the ETSEIB of the UPC with more than 45 professors and three degrees under our responsibility. In 2007 I was elected Vice-Rector for Research at the UPC and was renewed in 2011 as Vice-Rector for Science Policy. In addition, I was appointed by Minister Andreu Mas-Colell as commissioner of the Generalitat de Catalunya for the creation of the Engineering Campus at the Diagonal-Besòs (Barcelona) and the integration of the Technical School of Engineering of the Diputació de Barcelona into the UPC. The Rector of the UPC appointed me delegate of the Campus and new director of the School. The integration was carried out and the academic project, the distribution of spaces and the new degrees that were added to those already existing in the old School were unanimously approved. Two research buildings were created in the fields of Energy, Materials and Chemistry. The budget for the project was 113 million euros. In the academic year 2015 I was appointed Rector of the International University of Catalonia and I renewed a second mandate in 2018 until 2021. For the academic year 2021-2022 I have enjoyed a sabbatical year and I am currently taking up my professorship in Bioengineering.

Throughout my professional life, I have never stopped doing research. My research has led to very significant contributions in the development of new biomaterials for hard tissues substitution, dental implants, superelastic and shape memory alloys applied in biomedical applications, bioactive and osseointegrative materials, bacteriostatic and bactericide surfaces, biofunctionalized strategies, and the study of the mechanisms that control the interactions between biomaterials and cells or tissues. This has been possible thanks to having a team with a marked interdisciplinary character.

I have participated in numerous projects funded by national and international entities, with a very active international involvement, especially through European projects such as Reborne (2010-2015) and Innovabone (2011-2015), both in the field of biomaterials for bone regeneration. I have authored **410 research publications** indexed in the Web of Science (**h-index 67**) and more than **12.800** citations (Google Academic), and more than 275 contributions to international congresses. I have edited 10 books and authored 47 book chapters. I have been visiting lecturer at several foreign universities, such as University of Southampton (UK), University of Michigan (US), University of Minnesota (US), UTSA-Health Campus. (University of Texas, San Antonio, US), Universidade do Coimbra and Porto (P) and Universidad Nacional Autonoma de México (UNAM), and I have given more than 70 invited lectures at international conferences.

Mentoring young researchers has been a central part of my activities, with the supervision of 52 **PhD Theses** (46 presented and 6 more ongoing), and **22 Postdoctoral** fellows, as well as 62 Master Theses and Final Engineering Projects.

I have been actively involved in translating research into clinical practice and the industrial sector, being the author of **8 patents** licensed to companies and in operation. The Klockner ContacTi dental implant, one of the best-selling dental implants in Spain and also used internationally, is the result of a patent. In 2013 I participated, as a founding partner, in the **creation of the Spin-Off Company Mimetis Biomaterials**, (<https://www.mimetis.com/en/>). In 2021, the company will employ 15 employees.

I was President of the Iberian Society of Biomechanics and Biomaterials, and in 2014 I organized as vice-president the International Congress of Ceramics in Medicine, Bioceramics 26, in Barcelona and

the 17th European Conference on Biomaterials. European Society for Biomaterials in Barcelona 2002 as vice-president.

In 2020 I received the Prize for the best scientific career in the field of materials science and technology. 2020. (Materials Science Society). From 2018 I am International Research Advisor to the MDRCBB-Minnesota Dental Research Center for Biomaterials and Biomechanics of the University of Minnesota School of Dentistry. In 2021 Award of Honour Sociedad Española de Implantes in 2021. Numerary member of Royal European Academy of Doctors from 2013, Member of the Academia de Ciencia Odontológicas de España and Doctor Honoris Causa for the Universidad de La Habana (Cuba) (2018) and for the Universidad Europea Miguel de Cervantes (2024) and actually proposed by Universidad de Sevilla.

During this last year I have enjoyed a sabbatical year which I have taken advantage of to spend at different Universities and especially at UTSA (University of Texas-San Antonio) and at the University of Michigan in US, where I have been able to develop biomaterials projects on the aspects of infection and 3D printing with biomaterials and cells from the patient himself (Bioprinter).

It has also helped me to learn aspects of university management. I have been able to talk to authorities from different European and American universities about their governance, the organisation of the university, their strategic plans, their alumni policies, their relationship with the socio-economic environment, mechanisms to increase their reputation and aspects to take into account for a more efficient management of resources. It has been an experience that has completed my passion for service to the University.