

Susana Cristobal (<http://orcid.org/0000-0002-3894-2218>)

Education: degrees and academic positions

- Professor in Biomedical Science, 2012-
- Docent in Biochemistry, Stockholm University, 2007.
- PhD in Biochemistry, Medical Faculty, Basque Country University, Bilbao, Spain 1997. Title: "Purification and characterization of a microsomal cholesterol ester hydrolase from rat liver"
- Licenciante in Biological Science, Biochemistry, Faculty of Science, Basque Country University, Bilbao, Spain 1990.

Current positions and address

- **Professor**, Department of Clinical and Experimental Medicine, Cell Biology, level 13, Faculty of Medicine, Linköping University, Sweden. Email: Susana.Cristobal@liu.se. Mobile: +46-730385867
- **Guest Professor**, Department of Physiology, Medical Faculty, Basque Country University, Bilbao, Spain. 2013-
- **Guest Professor** from Binzhou Medical University, China, 2017-

Previous positions

- PhD Basque Country University, Bilbao, Spain 1997. Research/teaching (80/20)
- Postdoctoral researcher, Stockholm University, Sweden 1997-2000. Research (100)
- Postdoc researcher, Karolinska Institute, Stockholm, Sweden, 2000-2001. Research (100).
- Assistant Professor, Dep. of Cell and Molecular Biology, Uppsala University, Sweden, 2001-2005. Research/teaching (80/20).
- Researcher at Dep. of Biochemistry and Biophysics, Stockholm University, Sweden, 2005-2010. Research/teaching (80/20).
- Docent 2007, Stockholm University, Sweden.
- Associate Professor, Dep of Clinical and Experiment Medicine, Medical Faculty, Linköping University, Sweden, 2010-2012. Research/teaching (80/20).
- Guest Professor at the Dep. of Physiology, Medical Faculty, Basque Country University, Spain, 2011-current
- Professor, Dep of Clinical and Experiment Medicine, Medical Faculty, Linköping University, Sweden, 2012-current. Research/teaching (70/30)

Postdoctoral stays

- Postdoctoral researcher, Stockholm University, Sweden 1997-2000. Research (100)
- Postdoc researcher, Karolinska Institute, Stockholm, Sweden, 2000-2001. Research (100).

Sabbatical periods in academia

- July 2015 - Jan 2016. Sabbatical at PNNL (Pacific Northwest National Laboratories) WA, USA, U.S. Department of Energy Office of Biological and Environmental Research. Area: Soil Metaproteomics, environmental multiOMICS.. Host: Prof. Jannet Jansson.
- Maj 2009 - Jan 2010. Sabbatical with Vinnmer programme. Area: Environmental proteomics. Host: Prof. Jonas Bergquist.
- Jan 2009 - April 2009. Sabbatical University of the Basque Country, Department of Physiology, Area: Nanotoxicology. Host: Prof. Begona Ochoa. (In combination with maternity leave at 50%)

Qualification for readership (Swedish Docent)

- Docent 2007, Stockholm University, Sweden.

Awards and distinctions

Fellowships: 1990-91, Fellowship from Basque Country Health Council, Spain. 1991- 96, PhD fellowship from Spanish Ministry of Education and Sciences. 1997- 99, Postdoctoral fellowship from Basque Country Research Council to Sweden. 2000- 01, Postdoct fellowship from National network on Inflammation Research, Sweden. 2009- 10, Vinnmer-VINNOVA fellow.

Commission of trust and other assignments

- Steering board member of the Swedish Society for Mass Spectrometry, SSMS (2017-)
- Chairman of Mass Spectrometry Facility, Linköping University (2012-16).
- Steering board member of Stockholm Proteomics Facility (2008-10).
- LiU coordinator at SweTox (Swedish Toxicology Science Research Center). SweTox-FORMAS, Linköping co-applicant 2015-2018.
- "Opponent" at PhD Dissertation in Belgium, Norway and Spain (5 times) and "betygsnämnd" at Swedish Universities 1-3 times/year.

- Core members and management committee member for Sweden of Eu-COST action FA1002 (2010-14). Management committee from Eu-Cost Action FA1402 Imparas (2015-18) and Eu-Cost Action MuTaLig CA15135 (2016-20) and CA17140 NANO2CLINIC (2019-2023)
- International Advisor Committee for the Irish Environmental Protection agency (EPA).
- External evaluator for ERC consolidation grants, EU.
- Grant reviewer for: leader of the review panel Norwegian Research Council 2009-12, FRIBIO. External evaluator from Research grants from the University of Louvain, Belgium (2008, 2012). Grant reviewer for Spanish Research Council ANEP from 2016.
- Associated editor of Journal of integrated OMICS (JIOMICS), Reviewer from Proteomics, Molecular and Cellular Proteomics, Journal of Proteome Research, Proteomics Journal and Marine Environmental Research, Marine Pollution Bulletin J and Nano journals.

International research and teaching experience

Research area of interest:

- Proteomics- based methods for unbiased search of novel compound targets.
- Classical toxicology and nanotoxicology for safety assessment of nanomaterials.
- Quantitative proteomics to evaluate effects of exposure.
- Proteomics-based methods for precision medicine on body biofluids.
- Quantitative proteomics on sentinel species for environmental assessment.
- Metaproteomics methods on environmental samples to track dynamics of the environmental microbiomes.
- Proteomic based method for nanodrug discovery and for rapid prototyping of nanoparticles.

Other former research areas: peroxisomal proteomics and environmental assessment, marine pollution assessment and environmental proteomics, environmental proteomics and ecotoxicology, MultiOMICS and econanotoxicology, Nanotoxicology and integrated environmental index.

Teaching area:

- As graduate: Area: Biochemistry, Basque Country University, Bilbao, Spain
- As Assistant Prof: Area. Cell biology, Molecular Cell Biology, Dep Cell and Molecular Biology, Uppsala University, Sweden
- As Associate Professor: Area: Biochemistry, including molecular aspects of drugs, function of drugs and medical biochemistry, Dp of Biochemistry, Stockholm University, Sweden.
- As Professor: Area: Biochemistry, Cell Biology, mass spectrometry, Medical Faculty and Science Faculty, Linköping University, Sweden.
- As international invited lecture: Area: proteomics in international Master programmes and advanced courses, Eu-Cost action training courses.

Scholarly/academic societies

- SETAC, The Society of Environmental Toxicology and Chemistry., SETAC, nano advisory group, SETAC , OMICS advisory group
- *HUPO, the Human Proteome Organisation*
- AMIT, Spanish association of women researcher and technologists.
- P2+P, Peer-mentoring, European women for excellence in science.

Supervision of PhD students and post docs

Former members:

- **PhD students:** Jia Mi (8th December 2007), Itxaso Apraiz (17th April 2009), Linnea Hedin (15th October 2010), Hanna Amelina (21st May 2011), Minttu Virkki (19th Dec 2014), Narges Bayat (2nd June 2015), Jacob Kuruvilla (8th Sep 2017).
- **Postdoc and researchers:** Meftun Ahmed (2003-4), (Maria Bendz (2008-10), Christine Gallampois (2011-13), Sara Tedesco (2011-13), Henric Fröberg (2013), Hanna Klang (2013), Binu Mathew (2014), Viviana Lopes (2012-14), Alexander Campos (2014-15), AnaPaula Farinha (2014-16).
- **Guest researchers:** Eva Kirchner (2004), Itsaso Garcia (2004), Estelle Thebaud (2006), Oihane Diaz de Cerio (2006), Sebastian Poirier (2006), Delphine Boulanger (2007), Ruben Alvarez (2008) , Guilia Leoni (2007-08), Katerina Rajapakse (2009-10), Begona Ochoa (2014), Ralph Urbatzka (2015), Ariadna Castenada (2017) , Ariadna Jorba (2017)
- **Master students:** 19 Master students in UU, SU and LiU,
Current members: 1 graduate student, 1 postdoc, and 2 guest researcher, 1 postdoc at recruiting process.

Network with industry

- General Electric Health division (GE) (AmershamBioSciences) for the development of 2-DE image analysis software Decyder.
- Anbiotek; environmental consultants, Spain. River biomonitoring.