

FIRST NAME: Manuel

NAME: Cánovas

POSTAL ADDRESS: Dept Bioquímica y Biología Molecular B e Inmunología. Facultad de Química. Campus de Espinardo-Universidad de Murcia. Murcia

PROFESSIONAL POSITION: Full Professor. Biochemistry and Mol. Biol. (University of Murcia, Spain)

SPECIALIZATION (UNESCO CODE): 230209 3202 3209

DOCTORATE

1986. Ph-D in Biochemical Engineering (University of Swansea, Wales, UK)

1985. Ph-D in Biochemistry (University of Murcia, Murcia, Spain).

EMPLOYMENT

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| 1981-1986 | Ph-D student | University of Murcia. Spain University College Swansea. UK. |
| 1986-1988 | Lecturer Invited Lecturer | University of Murcia.Spain. University of Bath. UK |
| 1989-2003 | Reader | University of Murcia. Spain |
| 2003 | Habilitation Professor | University of Murcia.Spain |

FIELD OF RESEARCH

Biochemistry, physiology, genetics and molecular biology, metabolic engineering.

Current research interests :

- Study of anaerobic metabolism of Enterobacteriaceae such as *E. coli* and *Proteus mirabilis*.
- Identification and characterization of genes involved in the carnitine metabolism and their connection with central metabolism expression.
- System biology of *E. coli* and *S. cerevisiae*

MOTIVATION

I became member of the ESBES board by de end of August 2006. I have been involved as part of the Scientific Committee in the past ESBES-7 (2008) held in Faro (Portugal). I am within the M3C (Measurement, Monitoring, Modeling and Control) working group, since the meeting held at the ESBES-7. It has been a pleasure for me to be a member of the board. However, I believe that one needs some time to become active, since it takes a while to get to know people involved. This is why I would like to keep myself involved in the board to be able to foster emerging fields such as system biology to bioprocesses.

I have experience in biotechnological processes related to applied biocatalysis. Within the past ten years, I have published more than 40 papers in ISI journals and supervised 10 Ph D theses concerning applied biocatalysis and metabolic engineering. Additionally, for more than fifteen years I have been working on physiology and biochemistry of microbial cells under free and immobilized states for the production of bioproducts. (see annexed CV).