

## CURRICULUM VITAE

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### Academic Record

2001: PhD Molecular Biology, University of Leiden (The Netherlands).

1993: Agricultural Engineer, Technical University of Valencia (Spain)

### Scientific positions

Current position. Postdoc Bioinformatics, Center for Genomics Research, Valencia Institute of Agricultural Research, Moncada (Spain)

Jan'01- Apr'03 Postdoc Bioinformatics, Department of Explanatory Toxicology, TNO Nutrition and Food Research Institute, Zeist (The Netherlands).

Mar'96-Feb'00 PhD student, Department of Molecular Genetics and Gene Technology, TNO Nutrition and Food Research Institute, Zeist (The Netherlands)

Oct'94-Dec'95 Research Fellow. Laboratory for Monoclonal Antibodies, Wageningen Agricultural University (The Netherlands).

Oct'93-Jul'94 COMETT Fellowship. Department of Ornamental Crops. Plant Breeding and Reproduction Research Institute CPRO), Wageningen (The Netherlands).

### Research Interests

- Functional annotation of non-model species
- Function-based data mining of genomics data
- Multivariate analysis of genomics data
- Information Systems and Ontologies
- Data integration

### Publications

- Nueda MJ, **Conesa A**, Westerhuis JA, Hoefsloot HCJ, Smilde AK, Talón M, Ferrer A. Discovering gene expression patterns in Time Course Microarray Experiments by ANOVA-SCA. *Submitted*.
- Gandía M, **Conesa A**, Ancillo G, Gadea J, Forment J, Pallás V, Flores R, Moreno P, Guerri J. Transcriptional Response Of Citrus Aurantifolia To Infection By Citrus Tristeza Virus. *Submitted*.
- de Vries RP, Levin AM, **Conesa A**, Talon M, Menke HH, van Peij NNME, Wösten HAB. Colonies of *Aspergillus niger* are highly differentiated in spite of cytoplasmic continuity. *Submitted*.
- Levin AM, **Conesa A**, Menke HH, Talon M, van Peij NNME, Wösten HAB. Medium independent spatial differentiation in colonies of *Aspergillus niger*. *Submitted*
- Agustí, J., Tadeo, F.R., **Conesa A**, Terol, J., Andrés, F., Cercós, M., Talón, M. Abscission in citrus: New insights using Expressed Sequence Tag analysis. *Submitted*
- Javier Terol, **Ana Conesa**, Manuel Cercos, Jose M Colmenero, Francisco Tadeo, Javier Agustí, Enriqueta Alós, Fernando Andres, Guillermo Soler, Javier Brumos, Domingo Iglesias, Stefan Götz, Vicente Conejero, Francisco Legaz, Luis Navarro, Xavier Argout, Brigitte Courtois, Patrick

Ollitrault, Carol Dossat, Patrick Wincker, Raphael Morillon, Manuel Talon. (2007) Analysis of 52.626 Citrus ESTs from Standard and Normalized Full Length cDNA Libraries. BMC Genomics 2007, 8:31 (25 January 2007).

- Tim D. Williams, Amer M. Diab, Steven G. George, Rita E. Godfrey, Victoria Sabine, **Ana Conesa**, Steven D. Minchin and James K. Chipman. 2006. Development of the GENIPOL European flounder (*Platichthys flesus*) microarray and determination of temporal transcriptional responses to cadmium at low dose. Environmental Science & Technology, *in press*.
- G. Aparicio, S. Götz, **A. Conesa**, D. Segrelles, I. Blanquer, V. Hernandez, M. Robles, M. Talon, 2006. Blast2go Goes Grid: Developing A Grid-Enabled Prototype For Functional genomics Analysis. Stud Health Technol Inform. 120:194-204.
- **Conesa A**, Nueda MJ, Ferrer A, Talon M. maSigPro: a method to identify significantly differential expression profiles in time-course microarray experiments. 2006. Bioinformatics. May 1;22(9):1096-102.
- **Conesa A**, Götz S, Garcia-Gomez JM, Terol J, Talon M, Robles M. 2005. Blast2GO: a universal tool for annotation, visualization and analysis in functional genomics research. Bioinformatics. Sep 15;21(18):3674-6.
- Forment J, Gadea J, Huerta L, Abizanda L, Agusti J, Alamar S, Alos E, Andres F, Arribas R, Beltran JP, Berbel A, Blazquez MA, Brumos J, Canas LA, Cercos M, Colmenero-Flores JM, **Conesa A**, Estables B, Gandia M, Garcia-Martinez JL, Gimeno J, Gisbert A, Gomez G, Gonzalez-Candelas L, Granell A, Guerri J, Lafuente MT, Madueno F, Marcos JF, Marques MC, Martinez F, Martinez-Godoy MA, Miralles S, Moreno P, Navarro L, Pallas V, Perez-Amador MA, Perez-Valle J, Pons C, Rodrigo I, Rodriguez PL, Royo C, Serrano R, Soler G, Tadeo F, Talon M, Terol J, Trenor M, Vaello L, Vicente O, Vidal Ch, Zacarias L, Conejero V. 2005. Development of a citrus genome-wide EST collection and cDNA microarray as resources for genomic studies. Plant Mol Biol. Feb;57(3):375-91.
- Yi X, **Conesa A**, Punt PJ, Hager LP. Examining the role of glutamic Acid 183 in chloroperoxidase catalysis. 2003. J Biol Chem Apr 18;278(16):13855-9
- **Conesa, A.**, Jeenes, D. Archer, D. B., van den Hondel, C. A. M. J. J. and Punt, P. J. 2002. Calnexin overexpression increases manganese peroxidase production in *Aspergillus niger*. Applied and Environmental Microbiology, 68: 846-851.
- Punt, P.J., van Biezen, N., **Conesa, A.**, Albers, A., Mangnus, J. and van den Hondel, C.A.M.J.J. Filamentous fungi as cell factories for heterologous protein production. 2002 .Trends Biotechnol. May;20(5):200-6.
- **Conesa, A.**, Punt, P. J. and van den Hondel, C. A. M. J. J. 2002. Fungal Peroxidases: Molecular Aspects and Applications. Journal of Biotechnology 93: 143-158.
- **Conesa, A.**, Weelink, G. van den Hondel, C. A. M. J. J. and Punt, P. J. 2001. The C-terminal propeptide of the *Caldariomyces fumago* chloroperoxidase: an intramolecular chaperone? FEBS Letters 503: 117-20.
- **Conesa, A.**, Punt, P. J., van Luijk, N. and van den Hondel, C. A. M. J. J. 2001. The secretion pathway in filamentous fungi; a biotechnological view. Fungal Genetics and Biology 33: 155-71.
- **Conesa, A.**, van de Velde, F., van Rantwijk, F., Sheldon, R. A., Punt, P. J., van den Hondel, C. A. M. J. J. 2001. Expression of the *Caldariomyces fumago* chloroperoxidase in *Aspergillus niger* and characterisation of the recombinant enzyme. Journal of Biological Chemistry, 276: 17635-40.
- **Conesa, A.**, van den Hondel, C. A. M. J. J. and Punt, P. J. 2000. Studies on the Production of Fungal Peroxidases in *Aspergillus niger*. Applied and Environmental Microbiology, 66: 3016-3023.

## Software Developments

**Blast2GO**: Desktop application for sequence annotation and analysis ([www.blast2go.org](http://www.blast2go.org))

**maSigPro**: R package for the analysis of Time Course Microarray Experiments

([www.bioconductor.org](http://www.bioconductor.org))

**ASCA-genes**: R :script for ANOVA-SCA analysis of Time Course Microarray Data [[code](#)]