



## MANUEL DO CARMO GOMES

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### Main scientific areas of interest

Epidemiology: experimental design and data analysis. Epidemiology of communicable diseases: dynamics and control by vaccination, statistical and computational modeling. Special emphasis on diseases preventable by vaccination (measles, mumps, pertussis, HPV, pneumococcus).

### Other scientific areas of interest

Population dynamics / demography / biostatistics.

### Academic degrees and titles

- 2006 *Agregação*, University of Lisbon
- 1991 *Doctor of Philosophy (PhD)* in Biology. Department of Biology, Memorial University of Newfoundland, St. John's, Nfld., Canada.
- 1987 *Master of Science (MSc)* in Probabilities and Statistics. Faculty of Sciences, University of Lisbon, Portugal.
- 1981 *Licenciatura* in Biology. Faculty of Sciences, University of Lisbon, Portugal.

### Current positions

- Since 2002 Associate Professor at the Faculty of Sciences, University of Lisbon.
- Since 1998 Member of the Technical Committee of Vaccination, Ministry of Health, Portugal.

### International publications (peer-reviewed) in 2011-2013

Ventura T, **MC Gomes**, A Pita, MT Neto, A Taylor. 2013. Digit ratio (2D:4D) in newborns and their mothers: influences of prenatal testosterone and maternal environment. *Early Human Development*, **89**:107-112

Ladeira, C, S Viegas, E Carolino, **MC Gomes**, M Brito. 2013 The influence of genetic polymorphisms in XRCC3 and ADH5 genes in the frequency of genotoxicity biomarkers in workers exposed to formaldehyde. *Environmental and Molecular Mutagenesis* **54**: 213-221

Viegas, S, C Ladeira, **MC Gomes**, J Prista, M Brito. 2013. Exposure and genotoxicity assessment methodologies – The case of formaldehyde occupational exposure, *Current Analytical Chemistry* **9** (6) 476 - 484

**Gomes MC**, T Ventura, RS Nunes. 2012. How many maternal deaths are there in Portugal? *Journal of Maternal-Fetal Neonatal Medicine* **25** (10):1975-1979.

Ventura T, **MC Gomes**, T Carreira. 2012. Cortisol and anxiety response to a relaxing intervention on pregnant women awaiting amniocentesis. *Psychoneuroendocrinology* **37**:148-156

Ladeira, S Viegas, E Carolino, J Prista, **MC Gomes**, M Brito. 2011. Genotoxicity biomarkers in occupational exposure to

formaldehyde – The case of histopathology laboratories *Mutation Research* 721: 15-20

### **National publications (peer-reviewed) in 2011-2013**

Ladeira C, S Viegas, E Carolino, M Gomes, J Prista, **MC Gomes**, M Brito. 2012. Exposição ocupacional a formaldeído: avaliação da exposição e efeitos genotóxicos. *Saúde & Tecnologia* 7:18-27.

Ventura T, **MC Gomes**. 2010. Análise descritiva de parturientes e recém-nascidos na maternidade do Hospital Dona Estefânia entre 2005 e 2008. *Acta Médica Portuguesa* 23(5):793-802.

### **Book chapters, in 2011-2013**

Ventura, T, **MC Gomes**, MT Neto. 2013. Health benefits for the mother and child from music intervention in pregnancy, pp 217-232 In: P Simon and T Szabo (Eds) *Music: Social Impacts, Health Benefits and Perspectives*. Nova Publishers, Australia. ISBN: 978-1-62808-144-2.

Ladeira, C, S Viegas, E Carolino, **MC Gomes**, M Brito. 2011. Genotoxicity biomarkers: application in histopathology laboratories. Chapt 7 pp 133-154 In TK Khan (Ed) *Biomarker*. InTech Open Access, ISBN 978-953-51-0577-0.

### **Teaching experience**

30 years of teaching experience at university level on Epidemiology, Population Dynamics, Demography, and Mathematical Modelling in Biology.

URL for all courses: <http://webpages.fc.ul.pt/~mcgomes/aulas/index.html>

Currently responsible for the following courses:

Epidemiology of Infectious Diseases – Master level at the University of Lisbon

Population Dynamics – Master and 1<sup>st</sup> degree level at the University of Lisbon

Epidemiology and Public Health – 1<sup>st</sup> degree level at the University of Lisbon

### **Graduate students supervision**

*PhD students:*

Ana Cristina Paulo (concluded), Pedro Miguel Sousa (concluded), Bárbara Ribeiro Parreira, Carina Alexandra Ladeira.

*Master students (all concluded):*

Joana Allen Revez, Isa Catarina Dutra, Carina Alexandra Ladeira, Angela Pascoal Crespo, Joana Pinto dos Santos, Nuno Miguel Oliveira, António J. Belo, Marimar Guadalupe Villagarca.

### **PI of Funded Research Projects**

Principal Investigator of the Project “Dynamics and Control of Infectious Diseases in Human Populations” - May 2003 to November 2006. Fundação para a Ciência e Tecnologia, POCTI/ESP/44511/2002.

### **Knowledge transfer to society with an emphasis on public health**

Knowledge transfer has been conducted through the General Directorate of Health (DGS), as an active full member of the Technical Commission for Vaccination, since 1998.

URL in support of these activities: <http://webpages.fc.ul.pt/~mcgomes/vacinacao/index.html>

Also collaborated with the Division of Reproductive Health of DGS, reviewing and reckoning maternal deaths in Portugal since 2002.

### **Relevant management activities on behalf of the university**

- 2012 - Master in Molecular Genetics and Molecular Biology – co-coordinator
- 2009-2012 Head of Department, Dptm of Vegetal Biology, Faculty of Sciences, Univ Lisbon
- 2007-2009 Member of the executive board, Bachelor in Health Sciences of the University of Lisbon
- 2006-2009 Master in Molecular Genetics and Molecular Biology – co-coordinator
- 2005-2009 Master in Human Molecular Biology – co-coordinator
- 2000-2001 Coordinator of Committee of self-evaluation of the 1<sup>st</sup> degree in Biology of Faculty Sciences
- 1999-2000 Executive committee of the Dptm of Vegetal Biology
- 1994-2000 Member of the Pedagogical committee of the Dptm of Vegetal Biology