

PERSONAL DETAILS:

Name: Dr. Paloma Martínez-Rodríguez
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FORMAL EDUCATION:

Biology degree. 2002-2007. Universidad Autónoma de Madrid – UAM.

[Spanish Licenciatura Degree (5 years-full time, 300 credits) provides direct access to Doctoral Degree according to the Spanish law [RD 778/1998](#) and it is usually considered equivalent of Master's degree (BSc+MSc)]

Further awards:

- First in year award for Biology, UAM (January 2008).
- National Biology Degree awards, Honorable Mention (November 2008).
- Arquimedes National Research Contest, Honorable Mention for my final degree project.

University Expert on “Applied Statistics”. (2010). UNED - equivalent to the Open University.
Competitive Scholarship.

Advance award in Cellular Biology and Genetics, DEA. (2010). UAM.

MSc in Bioinformatics. (2011). Universidad Internacional de Andalucía – UNIA.

Genetics and cell biology PhD & European PhD. (2013). UAM.

- Top of year award in Genetics and Cellular Biology PhD, (December 2013). UAM.
 - My thesis investigates the genetic diversity of *Wolbachia* infecting *C. parallelus*. Phylogenies based on 16S rRNA gene and MLST, allow us to classify the *Wolbachia* strains as belonging to F or B supergroups, and some of them as recombinants.

Post Graduate Courses

Post Graduate Course in Phylogenies and DNA Genealogies: July 6-16, 2010.

Winter School Eco-Evolutionary Modeling of Speciation (Frospects). Abisko, Sweden. March 6-12, 2011.

16th Summer Institute in Statistical Genetics. Bayesian Methods for Genetics, MCMC for Genetics, Computing for Statistical Genetics, Coalescent Theory, Molecular Phylogenetic or Inference of Relationship and Relatedness. Seattle, USA. June 13-July 4, 2012.

Hybridisation and Speciation Workshop (Frospects), Gregynog Hall, Wales, UK. 23-26 October 2011.

The Helsinki Summer School on Mathematical Ecology and Evolution: Theory of speciation. Turku, Finland, 19-26, 2012.

PROFESSIONAL APPOINTMENTS

Research Visitor, Queen Mary University of London. (Oct 2011-Jan 2012 & April 2014)

Visitor to Prof. Richard Nichols' Laboratory.

Undergraduate Excellence Grant (Sept 2002 – June 2007)

Undergraduate Research Collaboration Grant (2007) Spanish Ministry of Science and Innovation.

Universidad Autónoma de Madrid's PhD Grant (January 2008 –September 2008).
FPU PhD Grant from Spanish Ministry of Science (September 2008 –November 2008).
Research visitor, ItaCyL, Valladolid, Spain. (April 2010).

PUBLICATIONS

- Martínez-Rodríguez P**, Hernández-Pérez M, Bella JL. Detection of *Spiroplasma* and *Wolbachia* in the bacterial gonad community of *Chorthippus parallelus*. *Microbial Ecology*, 2013, 66(1):211-23.
- Martínez-Rodríguez, Paloma**; Sarasa, Jonás; Peco, Begoña et al. *Wolbachia*, *Cardinium* and other endosymbionts play no role in thelytokous parthenogenesis in *Messor barbarus* and *Messor capitatus*. *European Journal of Entomology*, 2013, 110(2): 197–204.
- Pita M, Orellana J, **Martínez-Rodríguez P**, et al. (2014) FISH methods in cytogenetic studies. In: "Functional Analysis of DNA and Chromatin", Series: Methods in Molecular Biology, Vol. 1094 Stockert, Juan Carlos, Espada, Jesús, Blázquez-Castro, Alfonso (Eds.)
- The FroSpects Gregynog Workshop (including **Martínez-Rodríguez P**). Hybridization and speciation. *Journal of Evolutionary Biology*, 2013, 26(2) :229-246.
- Bella JL, **Martínez-Rodríguez P**, Arroyo-Yebras F et al. *Wolbachia* infection in the *Chorthippus parallelus* hybrid zone: evidence for its role as a reproductive barrier. *Journal of Orthoptera Research*, 2010, 19(2): 205-212.
- Martínez P**, Del Castillo P, Bella JL. Cytological detection of *Wolbachia* in squashed and paraffin embedded insect tissues. *Biotech Histochem*. 2009 Dec;84(6): 347-53.
- Martínez-Rodríguez P**, Granero-Belinchón R, Arroyo-Yebras F et al. *Varying incidence of Wolbachia during the host life cycle can alter bacteria spread*. Submitted.

Conferences:

I have participated in 3 national and 8 international scientific conferences, including giving 4 oral communications (3 of them in international conferences) and 15 poster communications.

TEACHING

Formal qualifications

Expert in Teaching at the University Level". UAM. 2013.

My project was on **Innovation in Teaching Evolutionary Genetics**.

This is the official qualification for undergraduate and postgraduate teaching at UAM.

Teaching Certificate (CAP). 2008. Universidad Complutense de Madrid- UCM. (250 h).

Basic teaching qualification

Experience

Profesor Ayudante LOU (Assistant Prof.) (November 2008 –November 2013). UAM

Genetics (60 hours per annum)

Evolutionary genetics (60 hours per annum).

My teaching quality surveys are all considerably above average.

I designed and taught a post-graduate course at Rio Cuarto University Argentina (2013) on

Phylogenetic methods (45 hours), including cooperative and project-based learning.

I have collaborated in three **educational innovations projects**,

Moodle online learning project <http://goo.gl/sx9qE6> ("Genética Grupo 136").

XIMET Trans-university educational material exchange-network project (with Valencia & Barcelona Universities).

I have participated in 5 national and **international education conferences**.