

CONTACT INFORMATION

Name: Laura Lucila Gómez Romero

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ACADEMIC DEGREES

Graduate Program: Biomedical Sciences. UNAM, Mexico. 2011 -

Bachelor of Science. Major: Genomic Sciences. Global average 9.91 (scale 0-10). UNAM, Mexico. June 2011

PUBLICATIONS

- Reyes J, Gómez-Romero L, Ibarra-Soria X, et.al. *Context-dependent individualization of nucleotides and virtual genomic hybridization allow the precise location of human SNPs*. PNAS. August 2011.

INTERNSHIPS

- Member of the Genome Dynamics Department at the Center for Genomic Sciences (CCG), UNAM, Mexico. Project: "Precise detection of variation in the human genome". Tutor PhD Rafael Palacios. August 2010-today
- Summer Scholar at the Stowers Institute for Biomedical Research. Project "Alternative splicing and chromatin changes during muscle development in *D. melanogaster*". Tutor PhD Julia Zeitlinger. June-August 2011
- Internship in the Proteomic Department at CCG. Project: "Membrane proteins characterization in cervical cancer cell lines". Tutor PhD Sergio Encarnacion. December 2009-June 2011.
- LCG-UNAM-Mexico iGEM 2009 wet-lab team. Project: "Fight fire with fire: phage mediated bacterial bite back". May-November 2009.
- Internship in the Functional Genomics of Prokaryotes Department at CCG. Project "Nitrogen fixation: genic expression and reporter genes". Tutor PhD Maria de Lourdes Girard. January-April 2007
- Internship in the Cellular Differentiation and Cancer Research Unit at UNAM. Project: "Antitumoral effect evaluation of the compound DESA in cervical cancer cell lines HeLa and Ca Ski". Tutor PhD Luis Sanchez. June-July 2006

HONORS AND AWARDS

- Bachelor in Science degree obtained by Academic Merit with Honorary Mention. June 2011.
- Diploma of academic excellence (Grade of 10, scale 0 to 10). School cycle 2009-2010.
- Silver Medal in the iGEM (International Genetically Engineered Machines contest) 2009. Massachusetts Institute of Technology. Project: "Fight fire with fire: phage mediated bacterial bite back".
- Diploma of academic excellence (Grade of 10, scale 0 to 10). School cycle 2007-2008.
- Gabino Barrera Medal for having obtained the highest grade average at the completion of my High School studies. ENP, UNAM, Mexico. December 2008.
- First place at the "XV University Science Fair". UNAM, Mexico. Project: "Nitrogen fixation: genic expression and reporter genes". Tutor, PhD Maria de Lourdes Girard. May 2007.
- Participation at the "XV University Science Fair". UNAM, Mexico. Project: "Plumb analysis in a mexican traditional candy". April 2007.

- Finalist at the "XIV University Science Fair". UNAM, Mexico. Project: "Bat diversity at different altitudinal gradients at the National Park Izta-Popo". May 2006.
- Third place at the "4^o National Knowledge Contest of High School Level (ANUIES)". Area: Mathematics, Level 2. May 2006.
- First place state-stage at the "XX Mathematics Mexican Olympiad" National-stage preselection. 2006.
- Second place at the "XVIII Contest Inter-High School *Javier Barros Sierra*". Area: Mathematics V. April 2006.

CONGRESSES

- Attendance to the "II Mexican Congress of Complexity Sciences". October 2012.

WORK EXPERIENCE

- Titular Professor. "Applied Statistics, R-Bioconductor". August-December 2012
- Teacher assistant. "Frontiers in Genomics". January-June 2012
- Titular Professor. "Applied Statistics, R-Bioconductor". August-December 2011
- Teacher assistant. "Human Genomics". January-June 2011
- Teacher assistant. "Genomic Applications". August-December 2010

EXTRACURRICULAR COURSES.

- "Differential equations, linear stability analysis and Markov chains in the context of biological mathematical modelling". PhD Guillermo Mosqueira. August 2012.
- Workshop "Mathematical modelling of biological systems". Mathematics Research Center (CIMAT), Mexico. June 2021
- "Ancient DNA". PhD Tom Gilbert. January 2011
- "Theory of Probability". Stanford University. Summer 2010
- "Data Mining". Stanford University. PhD. Rajan Patel. Summer 2010
- "Forensic Genomics". PhD Frederick Bieber. 2010
- "Mathematical Statistics". Dr Julio Martínez. 2009.
- "Epigenetics". PhD Felix Recillas. 2009.

SCHOLARSHIPS

- College Studies Fellowship, Program "Academic Excellence". 2009-2010.
- Scholarship from the PFEL program in 2nd, 5th and 6th semester. Secretaría de Educación Pública (SEP).
- Scholarship to study English at Vancouver during one month. SEP. December 2008.
- Excellence Fellowship. Program "Bécalos-UNAM Licenciatura". 2007-2008.

PROGRAMMING EXPERIENCE.

- R
- Perl
- C++