

CURRICULUM VITAE

José Manuel Peregrín Alvarez, Ph.D.

PERSONAL DATA

Name and surname: José Manuel Peregrín Alvarez
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STUDIES

2017: Course on Web Analytics. Telefonica, Spain.
2017: Course on Nutrition and Physical Activity. Central University of Catalunya, Spain.
2017: Course on Business Intelligence and Big Data. Oberta University of Catalunya, Spain.
2017: Course on SEO (Search Engine Optimization). Central University of Catalunya, Spain.
2016: Course on Big Data. Catholic University of Murcia, Spain.
2016: Course on Javascript, HTML and CSS. Complutense University of Madrid, Spain.
2016: Course on Nutrition, Genes and Health. University of Navarra, Spain.
2003: Ph.D. degree in Biology. University of Seville (Spain). Thesis title: "The comparative genomics of enzymes, metabolic pathways and protein interaction networks".
2003: Advanced course in SRS (Search and Retrieval System). EBI-EMBL (Cambridge, UK).
1995/1997: Ph.D. Programme in Cellular and Molecular Biology. University of Seville (Spain).
1993/1994: Course on Bioinformatics: computational techniques for the study of the Human Genome. University of Granada (Spain).
1992/1993: Degree in Food Microbiology and Biotechnology. University of Granada (Spain).
1987/1992: M.Sc. degree in Biological Sciences. University of Granada (Spain).

LANGUAGES

Spanish: Mother tongue
English: Advanced Level.
French and Portuguese: Elementary Level.

PROGRAMMING & COMPUTER SKILLS

Programming Languages: AWK, PERL, ANDROID, R
Web scripting languages: CGI, JavaScript, PHP
Markup Languages: HTML, CSS
Relational databases: MySQL, PostgreSQL
OS Platforms: UNIX/Linux, Windows, MsDos
Bioinformatics tools: GCG, BLAST, FASTA, CLUSTAL, other specific software, biological databases, etc.
Big Data software: WEKA
General software: WordPerfect, Microsoft Office, StarOffice, Harvard Graphics, Statgraphics ...

SCIENTIFIC INTEREST

Bioinformatics and Computational Systems Biology.
Molecular evolution, phylogenetics and comparative genomics.
Machine Learning. Computational approaches to predict and visualize protein interaction networks.
Genetic properties and evolution of molecular networks.
Phylogenetic profiling analyses.
Integration and analysis of genome sequence data.
Use of genomic approaches to determine gene function.
Discovery of novel antimicrobial drug targets.
Obesity and Weight loss.
E-health

EDITORIAL BOARD MEMBERSHIPS

ISRN Biomathematics; Hindawi Publishing Corporation; Conference Papers in Biology

PROFESSIONAL EXPERIENCE

Since Jul-2017: Inspiralia (Science, Technology & Innovation). I+D+i Consultant. Madrid, Spain

Since Aug-2017: The Talent Recruiter (Recruitment Agency). Founder & CEO. Spain

Jul-2017-Jan-2017: Lionbridge (Google). Internet Quality Assurance. USA

Aug-2017/Dec-2017: Blu-Global (Human Resources). Recruitment Consultant. Wolverhampton, UK

Since Dec-2016: Virtual Creations (Web/App Design. Business Incubation). Founder & CEO. Worldwide

Since Dec-2013: Virtual Personal Trainer's (Online Weight loss and Fitness). Founder & CEO. Worldwide

Since Mar-2012: Freelancer Entrepreneur. Worldwide

Since Jan-07: Project Evaluator and Auditor at SENACYT (Panama).

Jun-07/May-12: RyC Scientist. University of Malaga (Malaga, Spain). Areas of interest: Computational Systems Biology. Comparative genomics.

Nov-03/Mar-09: Postdoctoral Fellow. Hospital for Sick Children and University of Toronto, Canada. Areas of interest: Comparative genomics. Systems and Network biology.

Oct-02/Oct-03: Computer Biologist. European Bioinformatics Institute (EBI. Cambridge, UK). Areas of interest: Comparative genomics. Databasing.

Oct-00/Sep-02: Bioinformatics Fellow (Mobility Program for Spanish Researchers - CICYT). European Bioinformatics Institute (EBI-EMBL, Cambridge, UK). Areas of interest: Comparative genomics. Function prediction using computational genome context methods.

May - 00/Sep-00: Director of Quality. Interconsulting (Jaén - Spain).

Feb - 00/May - 00: Leader for Andalusia of S&N Group - Consulting Company (Spain).

Oct - 95/Dec - 99: Research Fellow in the R+D Program of the Agriculture Ministry (M.A.P.A.). Physiology Dpt. (C.I.F.A) / Microbiology Dpt. (University of Sevilla - Spain). Areas of interest: Collaboration and coordination of projects. Laboratory Analysis. Molecular Biology, Microbiology, Biochemistry, Genetics

May98-Dec98/Oct99-Dec99: Teacher of Quality and Food Technology. CODEM S.C.A. (Sevilla - Spain).

May-99/Jun-99: Engineer of Quality and Environment. SYRSA-RENAULT (Sevilla - Spain).

Jun - 93/Oct - 95: Engineer of Quality Control and Development. 'Productos RUCA, S.L' (Granada - Spain).

Oct - 92/May - 93: Training in Dpt. of Microbiology. 'Consejo Superior de Investigaciones Cientificas' (CSIC, Granada - Spain).

AWARDS

Apr-07/Apr-12: Ramon y Cajal (RyC) program. Ministry of Science and Technology (Spain).

Jul-04/Jul-06: Postdoctoral Research Fellowship. Restrcomp (HSC. Toronto, Canada).

Oct-00/Sep-02: Research Fellowship. Ministry of Science and Technology (Spain).

Oct - 95/Dec - 99: Predoctoral Research Fellowship. Ministry of Agriculture (Spain).

Jul - 96/Aug - 96: Intercampus E.AL. Fellowship. Ministry of Foreign Affairs (Spain).

Aug - 95/Sep - 95: Intercampus E.AL Fellowship. Ministry of Foreign Affairs (Spain).

INTERNATIONAL SCIENTIFIC EXPERIENCE

Since Jul-2017: I+D+i Consultant. Inspiralia. Madrid, Spain

Since Dec-2013: Scientist. Virtual Personal Trainer. Worldwide

Jan-07/Feb-2012: Project Evaluator and Auditor at SENACYT (Panama).

Nov-03/Mar-09: Postdoc. Hospital for Sick Children (HSC. Toronto, Canada).

Oct-02/Ago-03: Computer Biologist. European Bioinformatics Institute (EBI, Cambridge - UK).

Oct-00/Sep-02: Bioinformatics Fellow. European Bioinformatics Institute (EBI-EMBL, Cambridge - UK).

Oct - 95/Dec - 99: Research Fellow in the R+D Program of the Agriculture Ministry (M.A.P.A.). Physiology Dpt. (C.I.F.A) / Microbiology Dpt. (University of Sevilla - Spain).

Jul - 96/Aug - 96: Intercampus E.AL. Fellow in the field of Food Engineering. University of Sergipe / EMBRAPA (Brazil).

Aug - 95/Sep - 95: Intercampus E.AL Fellow in the field of Food Technology. University of Aguascalientes (Mexico).

PUBLICATION LIST

2019

Peregrín-Alvarez JM. “Consistent Weight Loss linked to higher meal frequency”. *Adv Obes Weight Manag Control* 9(1):12–14.

2017

Peregrín-Alvarez JM. “Long-Term Weight Loss by Mobile App: Current Status and Future Perspectives”. *EC Nutrition SI.01*: 41-46.

Peregrín-Alvarez JM. Self-Experiencing “The Healthiest Weight”. *J Obes Overweig* 3(1): 101.

2010

Peregrín-Alvarez JM, Xiong X, Su C, and Parkinson J. “Interaction Networks as Scaffolds for Organizing and Interpreting Proteomes”. *J Biomol Tech*: 21(3 Suppl): S4.

2009

Peregrín-Alvarez JM, Xiong X, Su C, and Parkinson J. “The modular organization of protein interactions in *E. coli*”. *PLoS Computational Biology* 5(10): e1000523.

Rodriguez-Llorente I, Caviedes MA, Dary M, Palomares AJ, Canovas FM and **Peregrin-Alvarez JM.** “The Symbiosis Interactome: a computational approach reveals novel components, functional interactions and modules in *Sinorhizobium meliloti*”. *BMC Systems Biology* 3: 63.

Peregrin-Alvarez JM and Parkinson J. “The conservation and evolutionary modularity of metabolism”. *Genome Biology* 10(6):R63.

Wasmuth J, Daub J, **Peregrin-Alvarez JM,** Finney C and Parkinson J. “The origins of apicomplexan sequence innovation”. *Genome Research* May 22.

Peregrin-Alvarez JM and Parkinson J. "Phylogenomic analysis of EST datasets". *Methods Mol Biol.* 533: 257-76.

2008

Date S and **Peregrin-Alvarez JM.** "Phylogenetic Profiling". *Methods in Molecular Biology* 453: 201-16.

Peregrin-Alvarez JM. (Cover Art) "Inferring ancestral protein interaction networks". *Methods in Molecular Biology* 452: 417-430.

S Chong, **Peregrin-Alvarez JM,** Butland G, Fause S, Fong V, Emili A and Parkinson J. "The Bacteriome.org: an integrated protein interaction database for *E. coli*". *Nucleic Acids Research* 36(Database issue):D632-6.

2007

Peregrin-Alvarez JM and Ouzounis CA. "The comparative genomics of protein interactions". *Genome Informatics* 19: 131-141.

Peregrin-Alvarez JM and Parkinson J. "The global landscape of sequence diversity". *Genome Biology* 8(11):R238i.

E Ghedin, S Wang, D Spiro, E Caler, Q Zhao, J Crabtree, JE Allen, AL Delcher, DB Guiliano, D Miranda-Saavedra, SV Angiuoli, T Creasy, P Amedeo, B Haas, NM El-Sayed, JR Wortman, T Feldblyum, L Tallon, M Schatz, M Shumway, H Koo, S Salzberg, S Schobel, M Pop, O White, GJ Barton, CKS Carlow, MJ Crawford, J Daub, MW Dimmic, CF Estes, JM Foster, M Ganatra, WF Gregory, NM Johnson, J Jin, R Komuniecki, I Korf, S Kumar, S Laney, BW Li, W Li, TH Lindblom, S Lustigman, D Ma, C Maina, D Martin, JP McCarter, L McReynolds, M Mitreva, T Nutman, J Parkinson, **JM Peregrin-Alvarez,** C Poole, Q

Ren, L Saunders, AE Sluder, K Smith, M Stanke, TR Unnasch, J Ware, AD Wei, G Weil, DJ Williams, Y Zhang, SA Williams, C Fraser-Liggett, B Slatko, ML Blaxter and Alan Scott. "Draft genome of the Filarial Nematode Parasite *Brugia malayi*". *Science* 317: 1756-60.

2006

Krogan NJ, Cagney G, Yu H, Zhong G, Guo X, Ignatchenko A, Li J, Pu S, Datta N, Tikuisis AP, Punna T, **Peregrin-Alvarez JM**, Shales M, Zhang X, Davey M, Robinson MD, Paccanaro A, Bray JE, Sheung A, Beattie B, Richards DP, Canadien V, Lalev A, Mena F, Wong P, Starostine A, Canete MM, Vlasblom J, Wu S, Orsi C, Collins SR, Chandran S, Haw R, Rilstone JJ, Gandhi K, Thompson NJ, Musso G, St Onge P, Ghanny S, Lam MH, Butland G, Altaf-Ul AM, Kanaya S, Shilatifard A, O'shea E, Weissman JS, Ingles CJ, Hughes TR, Parkinson J, Gerstein M, Wodak SJ, Emili A, and Greenblatt JF. "Global landscape of protein complexes in the yeast *Saccharomyces cerevisiae*". *Nature* 440: 637-643.

2005

Goldovsky L, Janssen P, Ahrén D, Audit B, Cases I, Darzentas N, Enright AJ, Kunin V, López-Bigas N, **Peregrin-Alvarez JM**, Smith M, Ssoka S and Ouzounis CA. "CoGenT++: An extensive and extensible data environment for computational genomics". *Bioinformatics* 21: 3806-3810.

Butland G, **Peregrin-Alvarez JM**, Li J, Yang W, Yang X, Canadien V, Starostine A, Richards D, Beattie B, Davey M, Parkinson J, Greenblatt J and Emili A. "Interaction networks containing Conserved and Essential Protein Complexes in *E. coli*". *Nature* 433: 531-537.

Peregrin-Alvarez JM, Andrew Y, Sivakumar G and Parkinson J. "PartiGeneDB - Collating partial genomes". *Nucleic Acids Res.* 33:D303-D307.

Pereira-Leal JB, Audit B, **Peregrin-Alvarez JM** and Ouzounis CA. "An Exponential Core in the Heart of the Yeast Protein Interaction Network". *Mol Biol Evol.* 22:421-425.

2003

Janssen PJ, Audit B, Cases I, Darzentas N, Goldovsky L, Kunin V, Lopez-Bigas N, **Peregrin-Alvarez JM**, Pereira-Leal JB, Tsoka S and Ouzounis CA. "Beyond 100 genomes". *Genome Biology*, 4: 402.

Peregrin-Alvarez JM, Tsoka S and Ouzounis CA. "The phylogenetic extent of metabolic enzymes and pathways". *Genome Research*, 13: 422-427.

1998

Solis I, **Peregrin Alvarez JM** and Chamber MA. "Cloning genes encoding late nodulins in white Lupin (*Lupinus albus*)". In "Advances in Nitrogen Metabolism: From Physiology to Molecular Biology (Vega Piqueres JM, Aparicio P, Castillo F, Maldonado JM), University of Sevilla (Spain), 181-187.

Peregrin Alvarez JM and Chamber MA. VII National Meeting of Nitrogen Metabolism. "A system to study the expression of nodulins genes in transgenic plants (*Lupinus albus*)".

1997

Solis I, **Peregrin Alvarez JM** and Chamber MA. V Hispano-Luso Meeting of Vegetal Physiology. "Genetic characterization of DNAC library of later nodulins in *Lupinus albus*".