Curriculum Vitae

Giuseppe D'Auria

09/04/2018

Personal and Contact Infromation

Name: Giuseppe D'Auria

Nationality: Italian

Birth Place: Messina

Bith date: 01/05/1975

Contact: Foundation for the Promotion of Health and Biomedical Research of Valencia Region - Public Health (FISABIO-PH)

office: +34 961 92 5929

fax: +34 961 92 5703

e-mail: dauria_giu@gva.es

webpage at linkedin.com

Position

Current position: Foundation for the Promotion of Health and Biomedical Research of Valencia Region - Public Health (FISABIO-Public Health).

webpage: FISABIO

Position: Coordinator of Sequencing and Bioinformatics Service at FISABIO

Address: Avenida de Cataluña 21, 46020 Valencia, Spain

01/02/2016 - present

Research Interests

My interest relies on the study of microbial ecology in human related environment such as gut microbiota. Microbial genomics, pan-genomics, metagenomics and cytometry-based single cell genomics are my current working field. Trying to put order in the genomic chaos.

In the past I was actively involved in marine microbial ecology studying deep anoxic hypersaline basins (DHABs) of Mediterranean Sea.

Professional Experience

Previous Professional and Cientific Experience

- FISABIO - Public Health, Researcher at National Health System, Miguel Servet Program CP09/00049. Researcher. *01/02/2010-31/01/2016*
- Centro de Investigación Biomédica en Red - Epidemiología y Salud Pública (CIBEResp), Valencia, Spain. Researcher. *20/06/2007-31/01/2010*
- Miguel Hernández University, Alicante, Spain. PostDoc Researcher. *02/06/2004-31/10/2006*
- National Research Council (CNR), Ist. Ambiente Marino Cost., Messina, Italy. PostDoc Researcher. *01/01/2004-01/05/2004*
- National Research Council (CNR), Ist. Ambiente Marino Cost., Messina, Italy. PreDoc Researcher. *01/11/2000-31/12/2003*

Education

- Doctor of Philosophy (PhD) by University of Messina, Italy. Carried out at National Research Council (CNR), Istituto per L'Ambiente Marino Costiero IAMC. *01/11/2000-19/02/2004*
  - Environmental Science. Advisors: Dr. Ermanno Crisafi, Dr. Laura Giuliano
  - Thesis title: Structure of Natural Microbial Communities coming from Deep Hypersaline Anoxic Basins of Mediterranean Sea
  - University of Messina, Italy
- Degree in Biology at University of Messina, Italy. *24/07/1998*
  - Advisor: Prof. Salvatore Guglielminio
  - Thesis title: Genotypic and phenotypic characterisation of Pseudomonas aeruginosa ATCC 27853 mutants generated under stress and/or starvation conditions

Languages

Languages	Written	Reading	Conversation
English	Fluent	Fluent	Fluent
Spanish	Fluent	Fluent	Fluent
Italian	Mother Tongue	Mother Tongue	Mother Tongue

Honours and Awards

Winner of VI edition of **Premios Ideas**, section Life Science of **Fundación Ciudad de las Artes y las Ciencias**, *2010*.

List of Publications

- **D'Auria G.**, Džunková M., Peris-Bondia F. and Moya A. 2017. Diversity of metagenomics studies - dissecting microbiomes. pp. 27 – 32 In CIESM Monograph 49 [F. Briand ed.] Searching for Bacterial Pathogens in the Digital Ocean, 158 p., CIESM Publisher, Monaco and Paris.
- **D'Auria G**, Artacho A, Rojas RA, Bautista JS, Méndez R, Gamboa MT, Gamboa JR, Gómez-Cruz R. Metagenomics of Bacterial Diversity in Villa Luz Caves with Sulfur Water Springs. Genes (Basel). 2018 Jan 22;9(1)
- Del Campo-Moreno, R, Alarcón-Cavero, T, **D'Auria**, G, Delgado-Palacio, S, Ferrer-Martínez, M (2017). Microbiota. Enferm. Infecc. Microbiol. Clin., :np page given.
- Villar-García J, Güerri-Fernández R, Moya A, González A, Hernández JJ, Lerma E, Guelar A, Sorli L, Horcajada JP, Artacho A, **D'Auria G**, Knobel H. Impact of probiotic *Saccharomyces boulardii* on the gut microbiome composition in HIV-treated patients: A double-blind, randomised, placebo-controlled trial. PLoS One. 2017 Apr 7;12(4):e0173802. [Q1]
- Quagliariello A, Aloisio I, Bozzi Cionci N, Luiselli D, **D'Auria G**, Martinez-Priego L, Pérez-Villarroya D, Langerholc T, Primec M, Mičetić-Turk D, Di Gioia D. Effect of *Bifidobacterium breve* on the Intestinal Microbiota of Coeliac Children on a Gluten Free Diet: A Pilot Study. Nutrients. 2016 Oct 22;8(10). pii:E660.
- Džunková M, **D'Auria G**, Xu H, Huang J, Duan Y, Moya A, Kelly CP, Chen X. The Monoclonal Antitoxin Antibodies (Actoxumab-Bezlotoxumab) Treatment Facilitates Normalization of the Gut Microbiota of Mice with *Clostridium difficile* Infection. Front Cell Infect Microbiol. 2016 Oct 4;6:119.
- Džunková M, Moya A, Vázquez-Castellanos JF, Artacho A, Chen X, Kelly C, **D'Auria G**. Active and Secretory IgA-Coated Bacterial Fractions Elucidate Dysbiosis in *Clostridium difficile* Infection. mSphere May 2016, 1 (3) e00101-16;
- **D'Auria G**, Torrents E, Luquin M, Comas I, Julián E. Draft Genome Sequence of *Mycobacterium brumae* ATCC 51384. Genome Announc. 2016 Apr 28;4(2). pii:e00237-16.
- Albuquerque L, Kowalewicz-Kulbat M, Drzewiecka D, Stączek P, **D'Auria G**, Rosselló-Móra R, da Costa M. *Halorhabdus rudnickae* sp. nov., a halophilic archaeon isolated from a salt mine borehole in Poland. Systematic and Applied Microbiology. Syst Appl Microbiol. 2016 Mar;39(2):100-5. [Q1]
- Gomar-Alba M, Amaral C, Artacho A, **D'Auria G**, Pimentel C, Rodrigues-Pousada C, Del Olmo ML. The C-terminal region of the Hot1 transcription factor binds GGGACAAA-related sequences in the promoter of its target genes. Biochim Biophys Acta. 2015 Nov 3;1849(12):1385-1397. [Q1]
- Quartieri A, Simone M, Gozzoli C, Popovic M, **D'Auria G**, Amaretti A, Raimondi S, Rossi M.Comparison of Culture-Dependent and Independent Approaches to Characterize Fecal Bifidobacteria and Lactobacilli. Anaerobe. 2015 Oct 16. pii: S1075-9964(15)30066-4. [Q3]
- Džunková M, **D'Auria G**, Moya A. Direct sequencing of human gut virome fractions obtained by flow cytometry. Front Microbiol. 2015 Sep 8;6:955. [Q1]
- Simón-Soro Á, **D'Auria G**, Collado MC, Džunková M, Culshaw S, Mira A. Revealing microbial recognition by specific antibodies. BMC Microbiol. 2015 Jul 2;15(1):132. [Q2]
- González-Candelas F, Bracho MA, Comas I, **D'Auria G**, Džunková M, García R, Gosalbes MJ, Isaac S, Latorre A, López-Labrador FX, Patiño Galindo JA, Palero F, Pérez-Brocal V, Pérez-Cobas AE, Sánchez-Busó L, Silva FJ, Vázquez-Castellanos JF, Moya A. Molecular

epidemiology studies on the immigrant population in Spain. Rev Esp Salud Pública 2014, 88(6): 819-28.

- Novakova J, Džunková M, Musilova S, Vlkova E, Kokoska L, Moya A, **D'Auria G**. Selective growth-inhibitory effect of 8-hydroxyquinoline towards Clostridium difficile and Bifidobacterium longum subsp. longum in co-culture analysed by flow cytometry. J Med Microbiol. 2014 Dec;63(Pt 12):1663-9. [Q2]
- Džunková M, Garcia-Garcerà M, Martínez-Priego L, **D'Auria G**, Calafell F, Moya A. Direct Squencing from the Minimal Number of DNA Molecules Needed to Fill a 454 Picotiterplate. PLoS One, 2014, 9(7), e102719. [Q1]
- **D'Auria G**, Dzunkova M, Moya A, Tomaska M, Kolosta M, Kmet V. Genome Sequence of *Lactobacillus plantarum* 19L3, a Strain Proposed as a Starter Culture for Slovenská Bryndza Ovine Cheese. Genome Announcements 2014, vol. 2 no. 2 e00292-14.
- **D'Auria**, Shneider MV, Moya A. Live Genomics for Pathogen Monitoring in Public Health. Pathogens 2014, 3(1), 93-108.
- **D'Auria**, Peris-Bondia F, Dzunkova M, Mira A, Collado MC, Latorre A, Moya A. Active and secreted IgA-coated bacterial fractions from the human gut reveal an under-represented microbiota core. Sci Rep. 2013 Dec 17;3:3515 . [Q1]
- Sassera D, Comandatore F, Gaibani P, **D'Auria**, Mariconti M, Landini MP, Sambri V, and Marone P. Comparative genomics of closely related strains of Klebsiella pneumoniae reveals genes possibly involved in colistin resistance. Ann Microbiol. October:2013.
- Collado MC, **D'Auria**, Mira A, Francino MP. Human Microbiome and Disease: a metagenomic approach. Bioactive Foods in Chronic Disease States, Ed. by Ronald Watson with the aid of Bethany Stevens. Academic Press, San Diego, 2013, Pages 235-249, ISBN 9780123971548.
- Dzunkova M, **D'Auria**, Pérez-Villarroya D, Moya A. Hybrid sequencing approach applied to human fecal metagenomic clone libraries revealed clones with potential biotechnological applications. PLoS One. 2012;7(10):e47654. [Q1]
- **D'Auria**, Galán JC, Rodríguez-Alcayna M, Moya A, Baquero F, Latorre A. Complete Genome Sequence of *Acidaminococcus intestini* RYC-MR95, a Gram-Negative Bacterium from the Phylum Firmicutes. J Bacteriol. 2011 Dec;193(24):7008-9. [Q2]
- Sassera D, Lo N, Epis S, **D'Auria**, Montagna M, Comandatore F, Horner D, Peretó J, Luciano AM, Franciosi F, Ferri E, Crotti E, Bazzocchi C, Daffonchio D, Sacchi L, Moya A, Latorre A, Bandi C. Phylogenomic Evidence for the Presence of a Flagellum and cbb3 Oxidase in the Free-Living Mitochondrial Ancestor. Mol Biol Evol. 2011 Dec;28(12):3285-96. Epub 2011 Jun 20. [Q1]
- Peris-Bondia F, Latorre A, Artacho A, Moya A, **D'Auria**. The active human gut microbiota differs from the total microbiota. PLoS One. 2011;6(7):e22448. Epub 2011 Jul 28. [Q1]
- Reimundo P, Pignatelli M, Alcaraz LD, **D'Auria**, Moya A, Guijarro JA. Genome sequence of *Lactococcus garvieae* UNIUD074, isolated in Italy from a lactococcosis outbreak. J Bacteriol. 2011 Jul;193(14):3684-5. Epub 2011 May 20. [Q2]
- Mira A, Martín-Cuadrado AB, **D'Auria**, Rodríguez-Valera F.The bacterial pan-genome:a new paradigm in microbiology. Int Microbiol. 2010 Jun;13(2):45-57. [Q2]
- Durbán A, Abellán JJ, Jiménez-Hernández N, Ponce M, Ponce J, Sala T, **D'Auria**, Latorre A, Moya A. Assessing gut microbial diversity from faeces and rectal mucosa. Microb Ecol. 2011 Jan;61(1):123-33. Epub 2010 Aug 24. [Q1]
- **D'Auria**, Barón-Rodríguez MM, Durbán-Vicente A, Moya A, Rojo C, Latorre A, Rodrigo MA. Unravelling the bacterial diversity found in the semi-arid Tablas de Daimiel National Park

wetland (central Spain). Acuatic Microbial Ecology. 2010 Mar; 59(1):33-44. [Q1]

- **D'Auria**, Jiménez-Hernández N, Peris-Bondia F, Moya A, Latorre A. *Legionella pneumophila* pangenome reveals strain-specific virulence factors. BMC Genomics. 2010 Mar 17;11:181. [Q1]
- Pignatelli M, Abellán JJ, **D'Auria** y Moya A. Genómica y Salud. I+S Informática y Salud 2009 (76); 30-36.
- Borin S, Brusetti L, Mapelli F, **D'Auria**, Brusa T, Marzorati M, Rizzi A, Yakimov M, Marty D, De Lange GJ, Van der Wielen P, Bolhuis H, McGenity TJ, Polymenakou PN, Malinverno E, Giuliano L, Corselli C, Daffonchio D. Sulfur cycling and methanogenesis primarily drive microbial colonization of the highly sulfidic Urania deep hypersaline basin. Proc Natl Acad Sci U S A. 2009 Jun 9;106(23):9151-6. Epub 2009 May 22. [Q1]
- Ivars-Martínez E, **D'Auria**, Rodríguez-Valera F, Sanchez-Porro C, Ventosa A, Joint I, M"uhling M.Biogeography of the ubiquitous marine bacterium *Alteromonas macleodii* determined by multilocus sequence analysis. Mol Ecol. 2008 Sep;17(18):4092-106. [Q1]
- Ivars-Martinez E, Martin-Cuadrado AB, **D'Auria**, Mira A, Ferriera S, Johnson J, Friedman R, Rodriguez-Valera F. Comparative genomics of two ecotypes of the marine planktonic copiotroph *Alteromonas macleodii* suggests alternative lifestyles associated with different kinds of particulate organic matter. ISME J. 2008 Dec;2(12):1194-212. Epub 2008 Jul 31. [Q1]
- **D'Auria**, Jiménez N, Peris-Bondia F, Pelaz C, Latorre A, Moya A. Virulence factor rtx in *Legionella pneumophila*, evidence suggesting it is a modular multifunctional protein. BMC Genomics. 2008 Jan 14;9:14. [Q1]
- Yakimov MM, La Cono V, Denaro R, **D'Auria**, Decembrini F, Timmis KN, Golyshin PN, Giuliano L. Primary producing prokaryotic communities of brine, interface and seawater above the halocline of deep anoxic lake L'Atalante, Eastern Mediterranean Sea. ISME J. 2007 Dec;1(8):743-55. Epub 2007 Oct 4. [Q1]
- Cuadros-Orellana S, Martin-Cuadrado AB, Legault B, **D'Auria**, Zhaxybayeva O, Papke RT, Rodriguez-Valera F. Genomic plasticity in prokaryotes: the case of the square haloarchaeon. ISME J. 2007 Jul;1(3):235-45. Epub 2007 May 31. [Q1]
- Hallsworth JE, Yakimov MM, Golyshin PN, Gillion JL, **D'Auria**, de Lima Alves F, La Cono V, Genovese M, McKew BA, Hayes SL, Harris G, Giuliano L, Timmis KN, McGenity TJ. Limits of life in MgCl2-containing environments: chaotropicity defines the window. Environ Microbiol. 2007 Mar;9(3):801-13. [Q1]
- Gentile G, Giuliano L, **D'Auria**, Smedile F, Azzaro M, De Domenico M, Yakimov MM. Study of bacterial communities in Antarctic coastal waters by a combination of 16S rRNA and 16S rDNA sequencing. Environ Microbiol. 2006 Dec;8(12):2150-61. [Q1]
- Zaballos M, López-López A, Ovreas L, Bartual SG, **D'Auria**, Alba JC, Legault B, Pushker R, Daae FL, Rodríguez-Valera F. Comparison of prokaryotic diversity at offshore oceanic locations reveals a different microbiota in the Mediterranean Sea. FEMS Microbiol Ecol. 2006 Jun;56(3):389-405. [Q1]
- Daffonchio D, Borin S, Brusa T, Brusetti L, van der Wielen PW, Bolhuis H, Yakimov MM, **D'Auria**, Giuliano L, Marty D, Tamburini C, McGenity TJ, Hallsworth JE, Sass AM, Timmis KN, Tselepides A, de Lange GJ, Hubner A, Thomson J, Varnavas SP, Gasparoni F, Gerber HW, Malinverno E, Corselli C, Garcin J, McKew B, Golyshin PN, Lampadariou N, Polymenakou P, Calore D, Cenedese S, Zanon F, Hoog S; Biodeep Scientific Party. Stratified prokaryote network in the oxic-anoxic transition of a deep-sea halocline. Nature. 2006 Mar 9;440(7081):203-7. [Q1]

- **D'Auria**, Pushker R, Rodriguez-Valera F. IWoCS: analyzing ribosomal intergenic transcribed spacers configuration and taxonomic relationships. Bioinformatics. 2006 Mar 1;22(5):527-31. Epub 2006 Jan 10. [Q1]
- Pushker R, **D'Auria**, Alba-Casado JC, Rodríguez-Valera F. Micro-Mar: a database for dynamic representation of marine microbial biodiversity. BMC Bioinformatics. 2005 Sep 9;6:222. [Q1]
- Yakimov MM, Denaro R, Genovese M, Cappello S, **D'Auria**, Chernikova TN, Timmis KN, Golyshin PN, Giluliano L. Natural microbial diversity in superficial sediments of Milazzo Harbor (Sicily) and community successions during microcosm enrichment with various hydrocarbons. Environ Microbiol. 2005 Sep;7(9):1426-41. [Q1]
- Denaro R, **D'Auria**, Di Marco G, Genovese M, Troussellier M, Yakimov MM, Giuliano L. Assessing terminal restriction fragment length polymorphism suitability for the description of bacterial community structure and dynamics in hydrocarbon-polluted marine environments. Environ Microbiol. 2005 Jan;7(1):78-87. [Q1]
- van der Wielen PW, Bolhuis H, Borin S, Daffonchio D, Corselli C, Giuliano L, **D'Auria**, de Lange GJ, Huebner A, Varnavas SP, Thomson J, Tamburini C, Marty D, McGenity TJ, Timmis KN; BioDeep Scientific Party. The enigma of prokaryotic life in deep hypersaline anoxic basins. Science. 2005 Jan 7;307(5706):121-3. [Q1]
- Yakimov MM, Gentile G, Bruni V, Cappello S, **D'Auria**, Golyshin PN, Giuliano L. Crude oil-induced structural shift of coastal bacterial communities of rod bay (Terra Nova Bay, Ross Sea, Antarctica) and characterization of cultured cold-adapted hydrocarbonoclastic bacteria. FEMS Microbiol Ecol. 2004 Sep 1;49(3):419-32. [Q1]

Projects

- Project title: "Medicina de percisión en la predicción del riesgo de cáncer colorectal en pacientes con diagnóstico genético de síndrome de Lynch"
  - Funding Agency: MINECO-ISCIII (AES 2017)
  - Period: 2018-2020
  - Principal Investigator: JOSE LUIS SOTO MARTINEZ
  - Reference: PI17/01082
  - Funding: 123.420 Euros
- Project title: "Implementación de sistemas de identificación bacteriana mediante kits diagnósticos para la detección de factores de resistencia, y virulencia. Estudio piloto en bacteriemias de pacientes oncológicos"
  - Funding Agency: Fundación para el fomento de la investigación sanitaria y biomédica de la COmunitat Valenciana (FISABIO)
  - Period: *2014-2015*
  - Principal Investigator: Dr. Giuseppe D'Auria
  - Reference: UGP-14-132
  - Funding: 10.000 Euros
- Project title: "Interacción del microbioma y el viroma del intestino humano en condiciones de salud, enfermedad y estrés antibiótico"
  - Funding Agency: Ministerio de Ciencia e Innovación
  - Period: *2013-2016*
  - Principal Investigator: Dr. Andrés Moya
  - Reference: SAF2012-31187
  - Funding: 325.000 Euros
- Project title: "Desarrollo de una metodología para el estudio de las interacciones entre el sistema inmune humano y la microbiota"

  - Funding Agency: Generalitat Valenciana
  - Period: *2011*
  - Principal Investigator: Dr. Giuseppe D'Auria
  - Reference: AP-034/11
  - Funding: 6.000 Euros
- Project title "Population metagenomics of human microbial communities"
  - Funding Agency: Ministerio de Ciencia e Innovación
  - Period: *2009-2012*
  - Principal Investigator: Dr. Andrés moya
  - Reference: CI11-106
  - Funding: 350.000 Euros
- Project title "Flow cytometry and single-cell genomics applied to the study of *Clostridium difficile* associated colitis"
  - Funding Agency: Istituto de Salud Carlos III
  - Period: *2010-2016*
  - Principal Investigator: Dr. Giuseppe D'Auria
  - Reference: CP09/00049
  - Funding: 45.000 Euros
- Project title: "Determinación y análisis del Genoma de *Acidaminococcus fermentas*, un coco gram negativo anaerobio estricto de Importancia biomédica"
  - Funding Agency: Generalitat Valenciana
  - Period: *2008-2009
  - Principal Investigator: Dr. Giuseppe D'Auria
  - Reference: GVPRE/2008/099/451/2009
  - Funding: 18.000 Euros
- Project title "Gene mining of Metagenomes for novel enzymes and therapeutics (GEMINI)"
  - Funding Agency: European Commission
  - Period: *01/11/2002-01/11/2006*
  - Principal Investigator: Prof. Jozef Anné
- Project title "Microbial Marine Communities Diversity: From Culture to Function (MIRACLE)"
  - Funding Agency: European Commission
  - Period: *January 2002-January 2005*
  - Principal Investigator: Prof. Francisco Rodriguez-Valera
- Project title "Biotechnologies from the DEEP (BIODEEP)"
  - Funding Agency: European Commission
  - Period: *01/02/2001-01/10/2004*
  - Principal Investigator: Prof. Cesare Corselli

Peer Reviewer

Since 2006 referee for: BMC Evolutionary Biology, Journal of Applied Microbiology, Journal of Genetics, Annals of Microbiology, Journal of Limnology, Journal of Aquatic Microbial Ecology, Molecular Nutrition and Food Research journal, Polar Research, Environmental Microbiology and Environmental Microbiology Reports, Genome Biology, MDPI-Pathogens.

Tutored PhD Thesis

- Student: David Pérez-Villarroya
  - PhD course: Medicina
  - Director: Giuseppe D'Auria
  - Tutor: Andrés Moya
  - Thesis title: "Implementación de métodos de clasificación basados en aprendizaje automatizado para la caracterización de organismos y comunidades bacterianas de interés biomédico"
  - Organism: University of Valencia, Spain
  - Pieriod: 2015-
- Student: Maria Dzunkova
  - PhD course: Biotechnology
  - Co-tutors: **Giuseppe D'Auria**, Andrés Moya
  - Thesis title: "Studying the natural pan-genome of intestinal organisms by the mean of flow cytometry and massive sequencing"
  - Organism: University of Valencia, Spain
  - Pieriod: *2012-2016*
- Student: Francesc Peris Bondia
  - PhD course: Biology
  - Co-tutors: **Giuseppe D'Auria**, Amparo Latorre
  - Thesis title: "Fractioning the Human gastrointestinal microbiota"
  - Organism: University of Valencia, Spain
  - Pieriod: *2009-2012*

Conferences (Last Five Years)

- Authors: David Pérez-Villarroya, Andrés Moya, Giuseppe **D'Auria**.
  - Title: Bacterial communities amplicon profiles modelling by markov clustering and neural networks. Defining reference annotation signatures.
  - Contribution: Poster
  - Conference: The 7th Congress of European Microbiologists (FEMS 2017)
  - Place and Year: Valencia, Spain, 2017
- Authors: Paula Corell Escuin, David Pérez-Villarroya, M. Loreto Ferrús Abad, Alejandro Artacho Pérez, **Giuseppe D'Auria**, Llúcia Martínez Priego.
  - Title: Use of its1 region as barcode marker for detecting fungi in human samples for illumina platform sequencing.
  - Contribution: Poster
  - Conference: The 7th Congress of European Microbiologists (FEMS 2017)
  - Place and Year: Valencia, Spain, 2017
- Authors: **Giuseppe D'Auria**, María Aznar , Juan Carlos Rodríguez , Maria Dzunkova, Andrés Moya

  - Title: Genómica comparada de cepas de Pseudomonas aeruginosa, procedente de pacientes oncológicos, resistentes y sensibles a carbapenémicos
  - Contribution: Poster
  - Conference: XIX Congreso de la Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica
  - Place and Year: Seville, Spain, 2015
- Authors: M. Aznar, **G. D'Auria**, M. Dzunkva, A. Moya, A. Sanchez-Bautista, A. Galiana ,P. Garcinuño, M. Andreu, I. Vidal, A. Zorraquino, E. Merino, J. Portilla, J.C.Rodriguez
  - Title: Utilidad de la citometría de flujo en el estudio entre bacterias y antibióticos
  - Contribution: Poster
  - Conference: XIX Congreso de la Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica
  - Place and Year: Seville, Spain, 2015
- Authors: Mária Džunková, **Giuseppe D'Auria**, Alejandro Artacho, Jorge Vázquez-Castellanos, Xinhua Chen, Ciaran Kelly, Andrés Moya
  - Title: Active and IgA-coated fractions of gut microbiota of patients with Clostridium difficile infection
  - Contribution: Poster
  - Conference: 5th International Human Microbiome Congress.
  - Place and Year: Luxembourg, 2015
- Authors: Mária Džunková, Marc Garcia-Garcerà, Llúcia Martínez-Priego, **Giussepe D'Auria**, Francesc Calafell, Andrés Moya
  - Title: Sequencing limited DNA samples by direct sequencing avoiding whole genome amplification
  - Contribution: Poster
  - Conference: Single Cell Analysis Conference, Global Technology Community.
  - Place and Year: Boston, USA, 2014
- Authors: Mária Džunková; Marc Garcia-Garcerà; Llucía Martinez-Priego; **Giuseppe D'Auria**; Francesc Calafell; Andrés Moya
  - Title: Direct sequencing from the minimal number of DNA molecules needed to fill a 454 picotiterplate
  - Contribution: Poster
  - Conference: 5th Annual Next Generation Sequencing Congress and Single Cell Analysis Congress
  - Place and Year: London, 2014
- Authors: **Guiseppe D'Auria**, Alejandro Artacho and Andrés Moya
  - Title: "Comparative genomics for public health microbiology, a pan-genome analyitical pipeline for virulence factors discovery"
  - Contribution: Poster
  - Conference: International Meeting on Microbial Epidemiological Markers (IMMEM-10)
  - Place and Year: Paris, France ,October, 2013
- Authors: **Guiseppe D'Auria**, Alejandro Artacho, Tomas García-Lozano, Eduardo Aznar, Andrés Moya
  - Title: "Estudio pan-genómico de múltiples genomas bacterianos para la identificación de factores de virulencia"
  - Contribution: Poster
  - Conference: XVII Congreso de la Sociedad Española de enfermedades infecciosas y microbiología clínica (SEIMC)
  - Place and Year: Zaragoza, Spain, Febrero, 2013
- Authors: T. García-Lozano, E. Aznar, M. Sánchez, F.J. Pascual, A. Egido, C. Gimeno, N. Tormo, **G. D'Auria**,
  - Title: "Análisis de 63 pacientes oncológicos infectados por Staphylococcus aureus resistente a meticilina (SARM). Estudio de colonización
  - Contribution: Poster

- Conference: XVII Congreso de la Sociedad Española de enfermedades infecciosas y microbiología clínica (SEIMC).
- Place and Year: Zaragoza, Spain, Febrero, 2013

Computer Skills

- OS: Linux, Mac, Windows
- Software development and databases: Perl, Bioperl, HTML, MySQL, Access, LaTex, R, Rmarkdown
- Bioinformatics: Assembling (Staden Package, Mira, Phred, Phrap, Consed), Sequence Editing and Analysis, Bioedit, Phylogenetic Tree Construction, Genome Annotation, Artemis, Artemis Comparative Tool, Glimmer, Generic Genome Browser setting, MUMmer, Mauve, Genomeviz; General usage: Graphics, Statistics, Office, LaTeX, R statistics package, Markdown, Rmarkdown, Bioconductors, etc.

Laboratory skills

Molecular biology, Microbiology. Anaerobiosis cultivation methods. Pulse-Field Gel Electrophoresis (PFGE), Amplified Fragment Length Polymorphism analysis (AFLP), SDS-PAGE, BioScreen, Fluorescence In Situ Hybridization (FISH), RT-PCR y 16S cDNA cloning and sequencing (BigDye Chemistry), Terminal Restriction Fragment Length Polymorphisms (T-RFLP), Upstream-independent ribosomal RNA amplification (URA), Repetitive Extragenic Palindromic sequences analysis (REP), Cytometry.

Teaching experience

- 2018, Fecruary. Professot at PhD Course: Molecular Microbiology and Virology - Academic Year 2017-2018, “Basic Computational Skills for Metagenomics Analysis”, Pavia, Italy.
- 2017, May. Coordinator and Professor at EMBL course “Microbial metagenomics, a 360º Approach”. Heidelberg, Germany.
- 2017, October. Professor at “Curso Práctico de Iniciación al uso de la Supercomputación aplicado a la Metagenómica y Genómica comparada” - 5a Edición at Fundación Centro de Supercomputación de Castilla y León (FCSCL), León, Spain.
- 2017, June. Professor and coordinator of module “Basic skills in bioinformatics” at “7th FISABIO-CSISP Summer School in Biomedical Research and Public Health”, at FISABIO, Valencia, Spain.
- 2016, November. Professor at Training School - COST Action: BEYOND BIRTH COHORTS: from study design to data management. Valencia, Spain.
- 2016, June. Professor and coordinator of module “Basic skills in bioinformatics” at “6th FISABIO-CSISP Summer School in Biomedical Research and Public Health”, at FISABIO, Valencia, Spain.
- 2016, March. Professor and coordinator of “Curso básico de R para bioinformática” at FISABIO, Valencia, Spain.
- 2015, October. Professor at Practical Course: “Metagenomics: From the Bench to Data Analysis”, The Genome Analysis Center (TGAC), Norwich, UK.
- 2015, July. Professor at Curso de verano Universidad Autonoma de Madrid, “El microbioma humano ¿un ecosistema para toda la vida?”, Madrid, Spain

- 2015, June. Professor and coordinator of module “Basic skills in bioinformatics” at “5th FISABIO-CSISP Summer School in Biomedical Research and Public Health”, at FISABIO, Valencia, Spain.
- 2014, October. Professor at “Curso Práctico de Iniciación al uso de la Supercomputación aplicado a la Metagenómica y Genómica comparada” - 3a Edición at Fundación Centro de Supercomputación de Castilla y León (FCSCL), León, Spain.
- 2014, September. Professor at Practical Course: “Metagenomics: From the Bench to Data Analysis”, The Genome Analtsis Center (TGAC), Norwich, UK.
- 2014, June. Professor at“4th FISABIO-CSISP Summer School in Biomedical Research and Public Health” at FISABIO, Valencia, Spain.
- 2014, May. Professor at “Curso Práctico de Iniciación al uso de la Supercomputación aplicado a la Metagenómica y Genómica comparada” - 2a Edición at Fundación Centro de Supercomputación de Castilla y León (FCSCL), León, Spain.
- 2014, March. Profesor and coordinator of the course “Basic Course in Bioinformatics and Genomic Analysis” at FISABIO, Valencia, Spain.
- 2013, November. Professor at “Curso Práctico de Iniciación al uso de la Supercomputación aplicado a la Metagenómica y Genómica comparada” - 1a Edición at Fundación Centro de Supercomputación de Castilla y León (FCSCL), León, Spain.
- 2013, July. Professor at “Third CSISP Summer School in Biomedical Research and Public Health”, at CSISP, Valencia, Spain.
- 2013, April. Professor at EMBO Practical Course: “Metagenomics: From the Bench to Data Analysis”, EMBL Heidelberg, Germany.
- 2013, January. Invited Professor in the master course in “Biomedicine and Molecular Biology (MBMB)” of University of País Vasco, Spain.
- 2012, July. Professor at “Second CSISP Summer School - Human Microbiome and Health”, at CSISP, Valencia, Spain.
- 2012, January. Invited Professor in the master course in “Biomedicine and Molecular Biology (MBMB)” of University of País Vasco, Spain.
- 2011, October. Professor at EMBO Practical Course: “Metagenomics: From the Bench to Data Analysis”, EMBL Heidelberg, Germany.
- 2011, August. Professor at “Fisrt CSISP Summer School - Human Microbiome and Health”, at CSISP, Valencia, Spain.
- 2011, February. Invited Professor in the master course in “Biomedicine and Molecular Biology (MBMB)” of University of País Vasco, Spain.
- 2009, September. Invited Professor in the master course in “Biomedicine and Molecular Biology (MBMB)” of University of País Vasco, Spain.
- 2009, February. Invited Professor in the Theoretical-Practical course: “Métodos metagenomicos para el estudio de comunidades microbianas complejas”. University Pablo de Olavide, Seville Spain.
- 2003, Professor at training course in “Experts of in situ and ex-situ Bioremediation” in the Italian National Project “PON-SABIE”. University of Messina - CNR - Giano Ambiente S.r.l. Messina, Italy.

Tutor Experience

- 2012-2014. Tutor of Llucia Martinez-Priego for the Master in Bioinformatics at Valencia University, Spain.
- 2012-2014. Tutor of David Perez-Villarroya for the Master in Bioinformatics at Valencia University, Spain.
- 2011, February-June. Tutor of a student in practice (300 hours) at CSISP, Valencia, Spain.
- 2010, July. Tutor of a student in the framework of the USA project MHIRT “Minority Health International Research Training”. Title of the work “Metatranscriptome and 16rDNA Libraries

of the Human Gut Microbiome" at CSISP, Valencia, Spain.
- 2010, June-September. Tutor of a student in practice (300 hours) at CSISP, Valencia, Spain.
- 2010, June. Tutor of a student in its degree thesis (7 months) from Utrecht Hogeschool (The Netherlands). Thesis title: "Functional sorting of human gut microbial communities" at CSISP, Valencia.
- 2008, July-September. Tutor of a student in the framework of the USA project MHIRT (Minority Health International Research Training). Title of the work: Learning of cloning and sequencing methodologies. Instituto Cavanilles de Biodiversidad y Biología Evolutiva de la Universidad de Valencia. Valencia, Spain.

Invited Speaker

- 2017, November. Invited speaker at presentation of the course in "Bioinformática y Biología Computacional" of Politecnic University of Valencia, "La importancia de la bioinformática en el desarrollo de las ciencias de la vida y la salud", Valencia, Spain.
- 2017, October. Invited speaker at "Jornada de Microbiota Intestinal: Implicaciones en la Salud y Enfermedad", Fundación Ramón Areces, Madrid, Spain.
- 2015, November. Invited speaker at CNRS, Montpellier, Microbiota and infections, Montpellier, France.
- 2015, September. Invited speaker at Illumina User Group Meeting, Valencia, Spain.
- 2015, March. Invited speaker at Applying Next Generation Sequencing in Metagenomics Studies, Barcelona, Spain.
- 2014, June. Invited speaker at Young researcher and Nobel Prize meeting at FISABIO, Valencia, Spain.
- 2013, September. Invited speaker at European Society of Clinical Microbiology and Infectious Diseases (ESCMID) Postgraduate Technical Workshop Bioinformatic Tools in Clinical Microbiology, Santander, Spain.
- 2011, July. Invited Speaker at "XXIII National Microbiology Congress", Salamanca, Spain
- 2011, March. Invited speaker to the conference cycle "Light Cycler University" (Roche) seminary title "Secuenciación masiva aplicada a genómica bacteriana", Gran Canaria, Spain.
- 2011, March. Invited speaker to the conference cycle "Light Cycler University" (Roche) seminary title "Secuenciación masiva aplicada a genómica bacteriana", Tenerife, Spain.
- 2010, December. Invited speaker to the conference cycle "Light Cycler University" (Roche) seminary title "Secuenciación masiva aplicada a genómica bacteriana", Barcelona, Spain
- 2010, June. Invited speaker to the conference cycle "Light Cycler University" (Roche) seminary title "Secuenciación masiva aplicada a genómica bacteriana", Valencia, Spain
- 2009, May. Invited speaker at IRBio. title of the talk: "Deep sequencing applications: 454 technology 'input' and 'output". Barcelona, Spain.

Other

- 2018, February, FISABIO Conference cycle "Ciencia y cañas", "BACTERIAS! Nunca estamos solos... ellos nos ven, nos hablan, nos rodean.... por fuera ... y por DENTRO! Desde el medio ambiente hacia nuestro intestino.". Valencia. Spain
- 2017, May, Conference cycle "Pint of Science", "BACTERIAS! Nunca estamos solos... ellos nos ven, nos hablan, nos rodean.... por fuera ... y por DENTRO! Desde el medio ambiente hacia nuestro intestino". Valencia. Spain
- 2014, March. Attending MDA course on Next Generation Sequencing Data Analysis forTranscriptomics at Centro de Investigación Principe Felipe, Valencia, Spain

- 2011, December. Press release for University of Valencia (in Valenciá) Un estudi d'un grup d'investigació internacional dóna noves pistes sobre l'origen de les céllules link.
- 2011, February. Press interview for FECYT with title: "Investigación de bacterias en las Tablas de Daimiel", link
- 2009, September. Collaborating in the organization of "Segundo Congreso de la Sociedad Española de Biología Evolutiva" en Valencia, Spain.
- 2009, June. Collaborating in the organization of first open on "Seres vivos del Cavanilles" at Insittuto Cavanilles de Biodiversidad y Biología Evolutiva and Parc Cientific de la Universitat de Valéncia. Valencia, Spain.
- 2006, May. Attending to the course in "Molecular Evolution, Phylogenomics and Phylogeny" organized by the "Instituto Nacional de Bioinformática" at Centro de Investigación Principe Felipe, Valencia, Spain.
- 2005 . Developing and maintaining of the database: Intergenic Transcribed Spacer database based on Word Count IWOCS at UMH, Alicante, Spain.
- 2004-2005. Developing and maintaining of the database: Micro-Mar at UMH, Alicante, Sapin.
- 2003, November. Research cruise BIODEEP R/V Urania.
- 2002, October. Collaborating in the organization of "8th Symposium on Aquatic Microbial Ecology", Taormina, Messina, Italy.
- 2002, June. Research cruise BIODEEP R/V Urania.
- 2001, August-September. Research cruise BIODEEP R/V Urania.