

Pedro H. OLIVEIRA

Group Leader



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tel +33 769 668 874 **em** pcphco@gmail.com
loc Paris, France
info Born on March 2nd 1981 in Lisbon, Portugal

Engineering and biotechnology background. Over the years, I prioritized efforts in acquiring a unique expertise in the broad fields of genomics and genome dynamics. My current interests are on identifying emerging challenges in the fast-growing research field of epigenomics, and on developing novel methods that can fundamentally address these challenges. My long term goal is to obtain biological insights that can be translated into more accurate disease diagnosis and more effective treatment for certain bacterial pathogens.

PROFESSIONAL EXPERIENCE

- | | |
|--------------------------|--|
| Currently
2020 | Lab Head, ATOMIC ENERGY AND ALTERNATIVE ENERGIES COMMISSION - GENOSCOPE, Paris, France
▶ Sequencing technologies and multi-scale biology
Genomics Epigenomics Bioinformatics |
| 2020
2016 | Senior Scientist, MOUNT SINAI SCHOOL OF MEDICINE, New York, USA
▶ Microbial epigenomics
Comparative Epigenomics / transcriptomics SMRT-seq R UNIX shell Microbial Genetics |
| 2016
2013 | Postdoctoral Fellow, INSTITUT PASTEUR, Paris, France
▶ Bacterial defense systems and genome organization
Unix Shell R Comparative Genomics Phylogenomics |
| 2012
2010 | Postdoctoral Fellow, UNIVERSITY OF LISBON INSTITUTO SUPERIOR TÉCNICO, Lisbon, Portugal
▶ Genetic instability in human stem cells for clinical applications
Flow cytometry Gene expression analysis Image analysis Multilineage differentiation Genome sequencing
Immunophenotyping Haplotyping Bioreactors |
| 2009
2008 | Visiting Researcher, MASSACHUSETTS INSTITUTE OF TECHNOLOGY HARVARD MEDICAL SCHOOL, Boston, USA
▶ Bacterial genome editing
Multiplex genome engineering Gene expression analysis |
| 2005
2005 | Research Assistant, UNIVERSITY COLLEGE LONDON, London, UK
Project financed by an ERASMUS fellowship
▶ Metabolite screening in bacteria
HPLC Mass spectrometry Antimicrobial susceptibility assays Bioreactors |

EDUCATION

- | | |
|-----------|--|
| 2006-2010 | PhD in Biotechnology, University of Lisbon Instituto Superior Técnico |
| 1999-2005 | MSc in Biological Engineering, University of Lisbon Instituto Superior Técnico |

GRANTS | FELLOWSHIPS | AWARDS

- | | |
|------|--|
| 2017 | Grant PTDC/BTM-SAL/28624/2017 attributed by the Portuguese Ministry of Science (FCT) - Lactic Acid Bacteria as Cell Factories : A Synthetic Biology Approach for Plasmid DNA And Recombinant Protein Production. Role as consultant. |
| 2010 | Post-Doctoral grant BPD/64652/2009 attributed by the Portuguese Ministry of Science (FCT) |
| 2010 | Award for top-cited article during 2008-2010 |
| 2010 | Ph.D. grant BD/22320/2005 attributed by the Portuguese Ministry of Science (FCT) |
| 2007 | Travel grant - 32 nd FEBS Congress |
| 2005 | ERASMUS Fellowship |

PROFESSIONAL MEMBERSHIPS AND SERVICE

2021-Present	Member of the Editorial Board of Microbiology Link
2020-Present	Member of the Advisory Board of Heliyon (Cell group) Link
2020	Member of the Editorial Board of Genomics Link
2019-Present	Member of the Editorial Board of mSystems Link
2019-Present	Member of the Editorial Board of Scientific Reports (Nature group) Link
2019-Present	Member of the Editorial Board of Scientific Data (Nature group) Link
2019-Present	Member of the Editorial Board of BMC Microbiology Link
2019-Present	Member of the Editorial Board of BMC Biotechnology Link
2017-Present	Member of the Editorial Board of PLoS ONE Link
2017-Present	Member of the Editorial Board of Frontiers in Genetics Link
2017-Present	Member of the Editorial Board of Frontiers in Microbiology Link
2021	Reviewer of grant applications for the US National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) - Microbial Biology Panel Link
2021	Reviewer of grant applications for the Swiss National Science Foundation (SNSF) Link
2020	Reviewer of grant applications for Graduate Women in Science (GWIS) Link
2015	Lead Guest Editor of a <i>Special issue on Biotherapeutics</i> . Link
2012-Current	External Reviewer for multiple journals (e.g. : <i>PLoS Computational Biology, Nucleic Acids Research, Scientific Reports, Bioinformatics, BMC Genomics, Cell Death and Differentiation, Stem Cells</i>). Link

PUBLICATIONS

- ▶ **Oliveira PH[†]**, Fang G. Conserved DNA methyltransferases : a window into fundamental aspects of epigenetic regulation in Bacteria. *Trends in Microbiology* (2021). 29(1), 28-40 [Link](#)
- ▶ **Oliveira PH**, Ribis JW, Garrett EM, Trzilova D, Kim A, Sekulovic O, Mead EA, Pak T, Zhu S, Deikus G, Touchon M, Lewis-Sendari M, Beckford C, Zeitouni NE, Altman DR, Webster E, Oussenko I, Bunyavanich S, Aggarwal AK, Bashir A, Patel G, Wallach F, Hamula C, Huprikar S, Schadt EE, Sebra R, van Bakel H, Kasarskis A, Tamayo R, Shen A, Fang G. Epigenomic characterization of *Clostridioides difficile* finds a conserved DNA methyltransferase that mediates sporulation and pathogenesis. *Nature Microbiology* (2020). 5(1), 166-180 [Link](#)
- ▶ Cury J, **Oliveira PH**, de la Cruz F, Rocha EPC. Host range and genetic plasticity explain the coexistence of integrative and extrachromosomal mobile genetic elements. *Molecular Biology and Evolution*. (2018). 35(9), 2230-2239. [Link](#)
- ▶ **Oliveira PH^{††}**, Touchon M[†], Cury J, Rocha EPC. The chromosomal organization of gene transfer in bacteria. *Nature Communications*. (2017). 8(841), 1-11. [Link](#)
- ▶ **Oliveira PH[†]**, Touchon M, Rocha EPC. Regulation of genetic flux between bacteria by restriction-modification systems. *Proc. Natl. Acad. Sci. USA*. (2016). 113(20), 5658-5663. [Link](#)
- ▶ **Oliveira PH[†]**, Touchon M, Rocha EPC. The interplay of restriction modification systems with mobile genetic elements and their prokaryotic hosts. *Nucleic Acids Research*. (2014). 42(16), 10618-10631. [Link](#)
- ▶ **Oliveira PH[†]**, Lobato da Silva C, Cabral JMS. Genomic instability in human stem cells : current status and future challenges. *Stem Cells*. (2014). 32(11), 2824-2832. [Link](#)
- ▶ Gonçalves GAL[†], **Oliveira PH[†]**, Gomes AG, Lewis LA, Prather KLJ, Prazeres DMF, Monteiro GA. Evidence that the insertion events of IS2 transposition are biased towards abrupt compositional shifts in target DNA and modulated by a diverse set of culture conditions. *Applied Microbiology and Biotechnology*. (2014). 98(15), 6609-6619. [Link](#)
- ▶ **Oliveira PH[†]**, Prazeres DMF, Monteiro GA. DNA instability in bacterial genomes : causes and consequences. In *Genome Analysis : Current Procedures and Applications* (Poptsova M. Eds.). Caister Academic Press, UK, 2014. [Link](#)
- ▶ **Oliveira PH**, Mairhofer J. Marker-free plasmids for biotechnological applications – implications and perspectives. *Trends in Biotechnology*. (2013). 31, 539-547. [Link](#)
- ▶ **Oliveira PH[†]**, Lobato da Silva C, Cabral JMS. An appraisal of human mitochondrial DNA instability : new insights into the role of non-canonical DNA structures and sequence motifs. (2013). *PLoS ONE* 8(3) : e59907. [Link](#)
- ▶ **Oliveira PH**, Boura JS, Abecasis MM, Gimble JM, Lobato da Silva C, Cabral JMS. Impact of hypoxia and long-term cultivation on the genomic stability and mitochondrial performance of *ex-vivo* expanded human stem/stromal cells. *Stem Cell Research*.

(2012). 9(3), 225-236. [Link](#)

- ▶ **Oliveira PH[†]**, Prazeres DMF, Monteiro GA. Structural and segregational instability in plasmid biology. In *Plasmids : Genetics, Applications and Health* (Gonzalez FER; Lopez MI Eds.). Nova Science Publishers, NY, USA, 2012. ISBN : 978-1-62081-370-6. pp. 79-100. [Link](#)
- ▶ Borlido L, Azevedo AM, Sousa AG, **Oliveira PH**, Roque AC, Aires-Barros MR. Fishing human monoclonal antibodies from a CHO cell supernatant with boronic acid magnetic particles. *Journal of Chromatography B*. (2012). 903, 163-170. [Link](#)
- ▶ Lewis LA., Astatke M, Umekubo PT, Alvi S, Saby R, Afrose J, **Oliveira PH**, Monteiro GA, Prazeres DMF. Protein-DNA interactions define the mechanistic aspects of circle formation and insertion reactions in IS2 transposition. *Mobile DNA*. (2012). 3(1):1. [Link](#)
- ▶ **Oliveira PH[†]**, Prather KLJ, Prazeres DMF, Monteiro GA. Mutation detection in plasmid-based biopharmaceuticals. *Biotechnology Journal*. (2011). 6(4), 378-391. [Link](#)
- ▶ **Oliveira PH[†]**, Prather KLJ, Prazeres DMF, Monteiro GA. Analysis of DNA repeats in bacterial plasmids reveals the potential for recurrent instability events. *Applied Microbiology and Biotechnology*. (2010). 87(6), 2157-2167. [Link](#)
- ▶ **Oliveira PH**, Prather KLJ, Prazeres, DMF, Monteiro GA. Structural instability of plasmid biopharmaceuticals : challenges and implications. *Trends in Biotechnology*. (2009). 27, 503-511. [Link](#)
- ▶ **Oliveira PH**, Prazeres DMF, Monteiro GA. Deletion formation mutations in plasmid expression vectors are disfavored by runaway amplification conditions and differentially selected under kanamycin stress. *Journal of Biotechnology*. (2009). 143(4), 231-238. [Link](#)
- ▶ **Oliveira PH**, Lemos F, Monteiro GA, Prazeres DMF. Recombination frequency in plasmid DNA containing direct repeats – predictive correlation with repeat and intervening sequence length. (2008). *Plasmid*. 60(2), 159-165. [Link](#)
- ▶ Ribeiro SC[‡], **Oliveira PH[†]**, Prazeres DMF, Monteiro GA. High frequency plasmid recombination mediated by 28 bp direct repeats. *Molecular Biotechnology*. (2008). 40(3), 252-260. [Link](#)
- ▶ **Oliveira PH**, Batagov A., Ward J, Baganz F, Krabben P. Identification of Erythrobactin, a hydroxamate-type siderophore produced by *Saccharopolyspora erythraea*. *Letters in Applied Microbiology*. (2006). 42(4), 375-380. [Link](#)
- ▶ Aleixo AI, **Oliveira PH**, Diogo HP, Minas da Piedade ME. Enthalpies of formation and lattice enthalpies of alkaline metal acetates. *Thermochimica Acta*. (2005). 428(1-2), 131-136. [Link](#)

[‡] Equal contribution

[†] Corresponding author

Publications as **first (or co-first) author** : 19 out of 23

Publications as **corresponding author** : 10 out of 23

EDITORIALS ABOUT MY PUBLICATIONS

- ▶ Jungbauer A. Improved products and processes through biochemical engineering science. *Biotechnology Journal*. (2011). 6(4), 362-363. [Link](#)

COMMUNICATIONS

Oral communications (IS – invited speaker; SS – selected speaker)

- ▶ Vacherie B, Mairey B, Payen E, Guérin T, Engelen S, Cruaud C, Labadie K, **Oliveira PH**, Lemainque A, Wincker P. Detailed comparison of DNA extraction methods for Nanopore sequencing of complex plant and animal genomes. *Nanopore Community Meeting Online*, December 1-3, 2020. (SS)
- ▶ **Oliveira PH**. Conserved DNA methyltransferases as keystones of epigenetic regulation in Bacteria. *26th Boston Bacterial Meeting Online*. July 16-17, 2020. (SS) [Link](#)
- ▶ **Oliveira PH**. Epigenomics in the era of third-generation sequencing : a large-scale study of the human pathogen *Clostridioides difficile*. *SMRT Leiden Online*. May, 2020. (SS) [Link](#)
- ▶ **Oliveira PH**. Large-scale detection and integrative functional characterization of DNA modifications in Bacteria. *Ohio State University - Department of Microbiology*, Ohio, USA. December 17, 2019. (IS)

- ▶ **Oliveira PH.** Large-scale detection and integrative functional characterization of DNA modifications in Bacteria. *Université Claude Bernard Lyon 1 - Molecular Microbiology and Structural Biochemistry*, Lyon, France. November 12, 2019. **(IS)**
- ▶ **Oliveira PH.** Large-scale integrative characterization of bacterial methylomes. *Center for Integrative Biology*, Toulouse, France. September 17, 2019. **(IS)**
- ▶ **Oliveira PH.** Epigenomic landscape of the human pathogen *Clostridium difficile*. Institut Pasteur - Microbiology Department Seminar, Paris. March 21, 2019. **(IS)**
- ▶ **Oliveira PH,** Kim A, Sekulovic O, Pak T, Zhu S, Mead EA, Deikus G, Touchon M, Lewis M, Beckford C, Zeitouni NE, Altman D, Webster E, Oussenko I, Aggarwal AK, Bashir A, Patel G, Hamula C, Huprikar S, Roberts RJ, Tamayo R, Schadt EE, Sebra R, van Bakel H, Kasarskis A, Shen A, Fang G. Epigenomic landscape of the human pathogen *Clostridium difficile*. *6th International Clostridium difficile Symposium*. Bled, Slovenia, September 12-14, 2018. **(SS)**
- ▶ **Oliveira PH.** The chromosomal organization of horizontal gene transfer. *Genome Science*, Nottingham, UK, September 4-6, 2018. **(IS)**
- ▶ **Oliveira PH,** Touchon M, Rocha EPC. Genetic mobility and the distribution of restriction modification systems in prokaryotes. *Department Days of Institut Pasteur*, Saint-Aignan-sur-Cher, France, September 22-24, 2014. **(SS)**
- ▶ **Oliveira PH,** Rocha EPC. A comparative genomics approach provides new insights into the distribution and evolutionary history of restriction modification systems in bacteria. *Annual Meeting of the Society for Molecular Biology and Evolution*, Chicago, USA, July 7-11, 2013. **(SS)**
- ▶ **Oliveira PH.** Mechanistic definition of IS2 transposition and the basis for its non-random insertional specificity in relevant DNA-based biopharmaceuticals. *3rd Annual World Congress of Molecular and Cell Biology*. Suzhou, China, June 14-16, 2013. **(IS)**
- ▶ **Oliveira PH,** da Silva CL, Cabral JMS. An appraisal of human mtDNA instability : role of DNA topology and sequence motifs. *15th European Congress on Biotechnology-Biocrossroads*. Istanbul, Turkey, September 23-26, 2012. **(SS)**
- ▶ **Oliveira PH,** Lobato da Silva C, Cabral JMS. An appraisal of human mtDNA instability : role of DNA topology and composition. *3rd Scientific Meeting of the Institute for Biotechnology and Bioengineering*. Lisbon, Portugal, March 16-17, 2012. **(SS)**
- ▶ **Oliveira PH,** Boura JS, Abecasis MM, Gimble J, da Silva CL, Cabral JMS. Genetic stability during the *ex-vivo* expansion of human mesenchymal stem cells for clinical applications. *6th International Meeting of the Portuguese Society for Stem Cells and Cellular Therapy (SPCE-TC)*. Cantanhede, Portugal, April 28-29, 2011. **(SS)**
- ▶ **Oliveira PH.** Biofármacos : Desafios e Limitações. *Tertúlias FNACiência*, FNAC Guimarães, Portugal, June 2, 2011. **(IS)**
- ▶ **Oliveira PH.** Da sala de aula ao laboratório – Uma experiência na primeira pessoa. *Jornadas de Engenharia Química e Biológica (JEQB)*. Instituto Superior Técnico, Lisbon, Portugal, March 21-25, 2011. **(IS)**
- ▶ **Oliveira PH,** Boura JS, Abecasis MM, da Silva CL, Cabral JMS. An appraisal of genetic stability in human mesenchymal stem cells. *1st Portuguese Meeting in Bioengineering*. Lisbon, Portugal, March 1-4, 2011. **(SS)**
- ▶ **Oliveira, PH,** Lobato da Silva C, Cabral JMS. Bias in human mitochondrial DNA repeat distribution correlates with common deletion/amplification breakpoints involved in genetic disorders and cancer. *5th International Meeting of the Portuguese Society for Stem Cells and Cellular Therapy (SPCE-TC)*. Guimarães, Portugal, November 20-21, 2010. **(SS)**
- ▶ **Oliveira PH,** Lopes G, Prather KJ, Prazeres DMF, Monteiro GA. Structural instability in plasmid biopharmaceuticals for DNA vaccination. *2nd Scientific Meeting of the Institute for Biotechnology and Bioengineering*. Braga, Portugal, October 23-24, 2010. **(SS)**
- ▶ **Oliveira PH,** Prather KJ, Prazeres DMF, Monteiro GA. Structural instability in plasmid vectors for DNA vaccination. *III International Conference on Environmental, Industrial and Microbial Biotechnology (BioMicroWorld)*. Lisbon, Portugal, December 2-4, 2009. **(SS)**
- ▶ Santos R, Marques MPC, **Oliveira PH,** Carvalho F, Carvalho C, Monteiro GA, Cabral JMS, Frade R, Silva M, Fernandes P. The sunny side of mycobacteria. *30th Annual Congress of the European Society of Mycobacteriology*, Porto, Portugal, 5-8 July 2009. **(SS)**

- ▶ **Oliveira PH**, Prather KJ, Prazeres DMF, Monteiro GA. Structural instability in plasmid vectors for DNA vaccination. *MicroBiotec 2009*. Vilamoura, Portugal, November 28-30, 2009. (SS)
- ▶ Ribeiro SC, **Oliveira PH**, Prazeres DMF, Monteiro GA. Kanamycin-induced mutation in *E. coli* cells harbouring plasmids with direct repeats – The adaptive response. *31st FEBS Congress – Molecules in health and disease*. Istanbul, Turkey, June 24-29, 2006. (SS)
- ▶ Krabben P, **Oliveira PH**, Baganz F, Ward J. Exploring the substrate spectrum of the antibiotic producing bacteria *Saccharopolyspora erythraea*. *12th European Congress on Biotechnology*. Copenhagen, Denmark, August 21-24, 2005. (SS)

Poster communications

- ▶ Vacherie B, Mairey B, Payen E, Guérin T, Engelen S, Cruaud C, Labadie K, **Oliveira PH**, Lemainque A, Wincker P. Detailed comparison of DNA extraction methods for Nanopore sequencing of complex plant and animal genomes. *Nanopore Community Meeting Online*, December 1-3, 2020.
- ▶ Ribis J, **Oliveira PH**, Mead E, Sekulovic O, Tamayo R, Fang G, Shen A. Epigenetic regulation of *Clostridioides difficile* spore formation by a conserved orphan DNA methyltransferase. *Clostrpath 11*, Leiden, Netherlands, August 19-22, 2019.
- ▶ **Oliveira PH**, Touchon M, Rocha EPC. Genetic mobility and the distribution of restriction modification systems in prokaryotes. *13th European Conference on Computational Biology (ECCB 2014)*, Strasbourg, France, September 7-10, 2014. (Selected for F1000 Posters : [Link](#))
- ▶ **Oliveira PH**, Touchon M, Rocha EPC. Genetic mobility and the distribution of restriction modification systems in prokaryotes. *EMBO Conference on Microbiology after the Genomics Revolution : Genomes 2014*, Paris, France, June 24-27, 2014.
- ▶ Gonçalves GAL, **Oliveira PH**, Lewis LA, Prazeres DMF, Monteiro GA. Identification of IS2 transposition in pVAX1-based plasmid, a common vector for DNA vaccine development. *15th European Congress on Biotechnology-Biocrossroads*. Istanbul, Turkey, September 23-26, 2012.
- ▶ **Oliveira PH**, Gonçalves GAL, Lewis LA, Prazeres DMF, Monteiro GA. Preferential transposition of the mobile element IS2 into AT- and GC-skew polarity switches. *15th European Congress on Biotechnology-Biocrossroads*. Istanbul, Turkey, September 23-26, 2012.
- ▶ Gomes AG and **Oliveira PH**. Comparative genomic analysis indicates strand compositional asymmetries as regional landmarks in plasmid evolution. *15th European Congress on Biotechnology-Biocrossroads*. Istanbul, Turkey, September 23-26, 2012.
- ▶ **Oliveira PH**, da Silva CL, Cabral JMS. Unusual DNA structures and instability motifs correlate with human mitochondrial deletion breakpoints involved in genetic disorders and cancer. *11th International Symposium on Mutations in the Genome*. Santorini, Greece, June 6-10, 2011.
- ▶ **Oliveira PH**, Boura JS, Abecasis MM, Gimble J, da Silva CL, Cabral JMS. An appraisal of genetic stability during the *ex-vivo* expansion of human mesenchymal stem cells. *11th International Symposium on Mutations in the Genome*. Santorini, Greece, June 6-10, 2011.
- ▶ **Oliveira PH**, Prather KJ, Prazeres DMF, Monteiro GA. Genome-wide analysis of DNA repeats in bacterial plasmids identifies genetically unstable hotspots and candidate regions for minimization. *8th European Symposium on Biochemical Engineering Science (ESBES)*. Bologna, Italy, September 5-8, 2010.
- ▶ Gonçalves GAL, **Oliveira PH**, Prather KJ, Prazeres DMF, Monteiro GA. Rational engineering of *E. coli* strains and vectors for improved manufacturing of plasmid biopharmaceuticals. *2nd MIT-Portugal Annual Conference : Creating Value through Systems Thinking*. Porto, Portugal, 28th September, 2010.
- ▶ Gonçalves GAL, **Oliveira PH**, Bower DM, Prazeres DMF, Monteiro GA, Prather KLJ. Rational engineering of *E. coli* strains for plasmid biopharmaceutical manufacturing. *Science 2010 Meeting*, Lisbon, Portugal, 4-7th July, 2010.
- ▶ **Oliveira PH**, Prazeres DMF, Monteiro GA. Hotspots for recombination are widespread among plasmid vectors. *3rd FEMS congress*. Gothenburg, Sweden, June/July 28-02, 2009.
- ▶ **Oliveira PH**, Prather KJ, Prazeres DMF, Monteiro GA. Rational engineering of *E. coli* strains and vectors for improved manufacturing of plasmid biopharmaceuticals. *1st MIT-Portugal Annual Conference : Engineering for Better Jobs*. Lisbon, Portugal, 7th July, 2009.

- ▶ Monteiro GA, Prazeres DMF, Azzoni A, Ribeiro S, Carvalho J, **Oliveira PH**, Freitas S, Magalhães S, Lima J, Beira J. Design and stability of plasmid vectors. *1st Scientific Meeting of the Institute for Biotechnology and Bioengineering (IBB)*. Faro, Portugal, 16th May, 2009.
- ▶ Prazeres DMF, Monteiro GA, Fonseca LP, Martins S, **Oliveira PH**, Azzoni A, Lima, J. Quality control and monitoring of plasmid biopharmaceuticals. *1st Scientific Meeting of the Institute for Biotechnology and Bioengineering (IBB)*. Faro, Portugal, 16th May, 2009.
- ▶ **Oliveira PH**, Prazeres DMF, Monteiro GA. Plasmid DNA instability mediated by direct repeats and type-2 insertion sequences. *EMBO conference Recombination Mechanisms*. Il Ciocco, Italy, May 19-23, 2008.
- ▶ **Oliveira PH**, Nunes SC, Ribeiro SC, Prazeres DMF, Monteiro GA. Kanamycin-induced recombination in *E. coli* cells harbouring plasmids with direct repeats. *32nd FEBS Congress – Molecular Machines*. Vienna, Austria, July 7-12, 2007.
- ▶ **Oliveira PH**, Prazeres DMF, Monteiro GA. Plasmid recombination by direct repeats and type 2 insertion sequences. *MicroBio-tec'07*. Lisbon, Portugal, 30 November – 2nd December, 2007.
- ▶ **Oliveira PH**, Marques MPC, Santos R, Claudino M, Monteiro GA, Cabral JMS, Fernandes P. Searching for a multipurpose *Mycobacterium*. *MicroBio-tec'07*. Lisbon, Portugal, 30 November – 2nd December, 2007.
- ▶ **Oliveira PH**, Linde E, Baganz F, Ward JM, Krabben P. From genome to improved antibiotic production by *Saccharopolyspora erythraea*. *ExGen - Exploiting Genomics Grant Holders*. Cambridge, UK, 19-20 July, 2006.
- ▶ **Oliveira PH**, Ribeiro SC, Prazeres DMF, Monteiro GA. Deletions in *Escherichia coli* plasmids harbouring direct repeats – Environmental factors and the adaptive response. *XVth National Congress of Biochemistry*. Aveiro, Portugal, December 8-10, 2006.
- ▶ Aleixo AI, **Oliveira PH**, Diogo HP, Minas da Piedade ME. Enthalpies of formation of alkaline metal acetates. *6th Mediterranean Conference on Calorimetry and Thermal Analysis*. Porto, Portugal, July 27-30, 2003.

MEDIA AND PUBLIC OUTREACH

- ▶ Participation in the Podcast series *Convidado Extra* (in Portuguese) from Jornal Observador (September 2020) [Link](#)
- ▶ Participation in the video series *Teach Me In 10* from Technology Networks (July 2020) [Link](#)
- ▶ Oliveira *et al.* (2020). Nature Microbiology highlighted by [GenomeWeb](#) [EurekAlert](#) [Phys](#) [TechnologyNetworks](#) [News Medical](#) [Mount Sinai](#) [Público](#) [Expresso](#) [DN](#) [JN](#) [IST](#) [RTP1](#) [MedPage Today](#) [JN](#) [Observador](#) [PacBio](#) [Visão](#)
- ▶ Profile highlighted in the journal Scientific Reports [Link](#)
- ▶ Oliveira *et al.* (2017). Nature Communications highlighted by [GEN](#) [Science et Vie](#) [GenomeWeb](#) [IST](#)
- ▶ Oliveira *et al.* (2016). PNAS highlighted by the Portuguese media [DN](#) [SIC](#)
- ▶ Interview given to Radio Antena 1 (in Portuguese) [Link](#)
- ▶ Interview given to Fundação Francisco Manuel dos Santos (in Portuguese) [Link](#)
- ▶ Research profile highlighted in the book *Conversas com Ciência*. ISBN : 978-989-89559-2-0 (in Portuguese) [Link](#)
- ▶ Interview given to project Ciência Com Vida (in Portuguese) [Link](#)
- ▶ Interview given to Radio channel Antena 1 (in Portuguese) [Link](#)
- ▶ Research profile highlighted in the Portuguese newspaper Público [Link](#)
- ▶ Book chapter on *Biopharmaceuticals* for a general audience (in Portuguese). Marcos JC and **Oliveira PH**. (2012). Biofármacos : Desafios e Limitações. In *Conversas com Ciência*. Escola de Ciências da Universidade do Minho, Braga, Portugal, 2012. ISBN : 978-989-98077-0-9, pp. 63-65. [Link](#)

STUDENT SUPERVISION / TEACHING

- 2021 Hadrien Guichard (Master student (M2) at Genoscope, Évry, France) : *The Anti-Phage Defensome of Complex Microbial Communities* - Role as PI (100%)
- . 2021 Angelina Beavogui (Master student (M1) at Genoscope, Évry, France) : *The Anti-Phage Defensome of Complex Microbial Communities* - Role as PI (100%)
- . 2016-2017 Alex Kim (Research Fellow at Mount Sinai School of Medicine, NY, USA) : *Epigenomic Landscape in the Human Pathogen Clostridioides difficile* - Role as co-PI (50%)
- . 2014 Invited Academic Seminars. *Therapeutic Potential of Human Stem Cells*. Université Paris 3 – Sorbonne Nouvelle, Paris, France.
- 2012 Invited Academic Seminars. *Genomic Instability*. MIT-Portugal course, Instituto Superior Técnico, Lisbon, Portugal.
- 2011-2012 Invited Academic Seminars. *Biological Reactors*. Instituto Politécnico de Setúbal (IPS). Portugal.
- 2010-2012 Márcia Mata (Research Fellow at Instituto Superior Técnico, Lisbon, Portugal) : *Scalable Reactor Systems for the Production of Human Mesenchymal Stem Cells* - Role as co-PI (80%)
- . 2008 Principal investigator of the MIT-Portugal program i-Teams with the project entitled : *Fermentative Siderophore Production*.
- 2007 Fanny Trouvat (Research Fellow at Instituto Superior Técnico, Lisbon, Portugal) : *Plasmid Instability Mediated by Direct-Repeats* - Role as co-PI (90%)
- .

LANGUAGES

Portuguese	●	●	●	●	●
English	●	●	●	●	●
French	●	●	●	○	○
Mandarin	●	○	○	○	○

OTHER INTERESTS

➤ Photography  Link