

**Curriculum Vitae**     **ALISSON M. GONTIJO, PhD.**  
**Full name:** Alisson Marques de Miranda Cabral Gontijo  
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**Google Scholar:** <https://scholar.google.com/citations?user=F6MFDSAAAAJ&hl=en>  
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- **CURRENT POSITIONS**

2013-cur     FCT Investigator, FCT (Portuguese Research Council), Portugal.  
 2012-cur     Principal Investigator, CEDOC, NMS|FMC, NOVA University of Lisbon, Portugal.

- **PREVIOUS POSITIONS**

2007-12     Postdoctoral fellow, Instituto de Neurociencias, CSIC-UMH, Spain.  
 Advisor: Maria Dominguez. Field: Evol. Mol. Genetics, Dev. & Cancer Biology  
 2005-07     Postdoctoral fellow, Department of Neurosciences, Institut Pasteur, France.  
 Advisor: Bernard Lakowski. Field: Genetics and Developmental Biology  
 2004-05     Postdoctoral fellow, Department of Parasitology, Institut Pasteur, France.  
 Advisor: Arthur Scherf. Field: Gene regulation and epigenetics  
 2003-04     Postdoctoral fellow, Institut Curie, France.  
 Advisor: Genevieve Almouzni. Field: DNA repair in chromatin.

- **EDUCATION**

2002     PhD in Pathology (*Distinção e Louvor*)\*, Medical School of Botucatu, Unesp, Brazil.  
 Thesis advisor: Daisy M. Salvadori. Field: Pathology \*Highest honors  
 1998     BSc in Biomedical Sciences, Biosciences Institute of Botucatu, Unesp, Brazil.  
 Mentor: Ivan A. Guerrini. Field: Biomedical Sciences (Major: Physics and Biophysics)

- **FELLOWSHIPS**

2012     Invited Scientist Fellowship, CEDOC/FCM, Portugal.  
 2008-10     Marie Curie Intra-European Fellowship for Career Development, EU, Spain.  
 2005-07     Conseil Regional d'Ile-de-France Postdoctoral Fellowship, France.  
 2001-02     FAPESP (Sao Paulo Research Council) Direct Ph.D. Scholarship, Brazil.  
 2000-01     CNPq (Braz. National Research Council) M.Sc. Scholarship, Brazil.  
 1997-98     CNPq Young Researcher Fellowship, UNESP, Brazil.

- **AWARDS AND HONORS**

2013     GTPB Champion, Gulbenkian Training Program in Bioinformatics, Portugal.  
 2012     Selected for Science Without Borders "Young Talents" Program, Brazil. (declined)  
 2012     Selected Trainee Bursary: Canadian Developmental Biol. Conference (Mar 6-11, 2012).  
 2011     EU CORDIS Tech. Marketplace "Uncovering the switches that turn tumours on and off"  
 2003     Student Achievement Award - US Environmental Mutagen Society. (declined)  
 2002     Best Poster Award – PerkinElmer –Brazilian Society of Genetics.  
 2002     Student Achievement Award - U.S. Environmental Mutagen Society.  
 2001     Best Poster Award - Brazilian Environmental Mutagen Society & BANCO DO BRASIL.  
 2001     Student Travel Award and Home-stay program. IAEMS, Shizuoka, Japan.  
 2001     Honor Mention & Best M.Sc. Dissertation Award – Braz. Soc. of Pathology.

- **BIBLIOGRAPHY** (citations GoogleScholar – 9 Nov 2015)

### Publications

Garelli A\*#, Heredia F#, Casimiro AP#, Macedo A, Nunes C, Garcez M, Mantas Dias AR, Volonte YA, Uhlmann T, Caparros E, Koyama T, **Gontijo AM\***. Dilp8 requires the neuronal relaxin receptor Lgr3 to couple growth to developmental timing. **Nature Communications**. 2015 Oct 29, 6:8732. # equal contributors. \*corresponding authors. Lab members underlined.

de Castro Marcondes JP, de Oliveira ML, **Gontijo AM**, de Camargo JL, Salvadori DM. Genetic instability persists in non-neoplastic urothelial cells from patients with a history of urothelial cell carcinoma. **PLoS One**. 2014 Jan 22;9(1):e86162. Times cited: 1

Garelli A\*, **Gontijo AM\***, Miguela V, Caparros E, Dominguez M. Imaginal Discs Secrete Insulin-like Peptide 8 to Mediate Plasticity of Growth and Maturation. **Science**. 2012, 336:6081, 579-582. Evaluated 2x by Faculty of 1000: FFa 9 “Must read” & “New, Finding and Good for Teaching”. Kumar S: 2012 and Pan D and Zheng Y: 2012; Issue Highlight: “Peptide Keeps Fruit Fly Growth in Check”. Editor’s choice: VanHook AM. *Sci. Signal*. (2012). Perspective: “How Growth Abnormalities Delay “Puberty” in Drosophila” by I.K. Hariharan, *Sci. Signal* (2012). Featured in EMBO News, El Mundo, ScienceDaily etc. \* Equal contribution. Times cited: 112

**Gontijo AM\***, Miguela V, Whiting MF, Woodruff RC, Dominguez M. Intron retention in the *Drosophila melanogaster* Rieske iron sulfur protein gene generated a new protein. **Nature Communications**. 2011, 2:323 doi: 10.1038/ncomms1328. \*corresponding author. Times cited: 10

**Gontijo AM**, Aubert S, Roelens I, Lakowski B. Mutations in genes involved in nonsense mediated decay ameliorate the phenotype of sel-12 mutants with amber stop mutations in *Caenorhabditis elegans*. **BMC Genetics**. 2009, 10, 14. Times cited: 1

Barreto RE, **Gontijo AM**, Delicio HC. Correlations between pre- and post-fasting growth in Nile tilapia **Journal of Applied Animal Research**. 2008, 34, 113-116. Times cited: 3

Lopez-Rubio JJ, **Gontijo AM**, Nunes MC, Issar N, Hernandez Rivas R, Scherf A. 5' flanking region of var genes nucleate histone modification patterns linked to phenotypic inheritance of virulence traits in malaria parasites. **Molecular Microbiology**. 2007, 66, 1296-1305. Commentary in: *Mol Microbiol*. 2007 Dec;66(6):1291-5. Times cited: 135

Barreto RE\*, **Gontijo AM\***, Alves-de-Lima RO, Raymundi VC, Pinhal D, Reyes VA, Volpato GL, Salvadori DM. MS222 does not induce primary DNA damage in fish. **Aquaculture International**. 2007, 15, 163-168. \* Equal contribution. Times cited: 17

Pavao PR, **Gontijo AM**, Ribeiro DA, Salvadori DM. Lack of genotoxicity induced by steroids anabolic in bodybuilding practitioners. **Brazilian Journal of Physical Education and Sport**. 2007, 21, 5-10. ISSN 1981-4690 on-line version. Times cited: 5

Pinhal D\*, **Gontijo AM\***, Reyes VA, Ribeiro LR, Salvadori DM. Viable human buccal mucosa cells do not yield typical nucleoids: impacts on the single-cell gel electrophoresis/Comet assay. **Environmental Molecular Mutagenesis**. 2006, 47, 117-126. Erratum in: *Environ Mol Mutagen*. 2006, 47, 226. \* Equal contribution. Times cited: 17

Freitas-Junior LH, Hernandez-Rivas R, Ralph SA, Montiel-Condado D, Ruvalcaba-Salazar OK, Rojas-Meza AP, Mancio-Silva L, Leal-Silvestre RJ, **Gontijo AM**, Shorte S, Scherf A. Telomeric heterochromatin propagation and histone acetylation control mutually exclusive expression of antigenic variation genes in malaria parasites. **Cell**. 2005, 121, 25-36. Cover Article & Preview: Deitsch, K.W. *Cell*, 2005, 121, 1-2. Faculty of 1000 FFa 10 “Exceptional” together with Duraisingh et al., 2005; Soldati D: 2005. Times cited: 357

Alves A, **De Miranda Cabral Gontijo AM**, Salvadori DM, Rocha NS. Acute bacterial cystitis does not cause deoxyribonucleic acid damage detectable by the alkaline comet assay in urothelial cells of dogs. **Veterinary Pathology**. 2004, 41, 299-301. Times cited: 5

**De Miranda Cabral Gontijo AM\***, Barreto RE\*, Speit G, Valenzuela Reyes VA, Volpato GL, Favero Salvadori DM. Anesthesia of fish with benzocaine does not interfere with comet assay results. **Mutation Research**. 2003, 534, 165-72. \* Equal contribution. Times cited: 56

Azevedo L, Gomes JC, Stringheta PC, **Gontijo AM**, Padovani CR, Ribeiro LR, Salvadori DM. Black bean (*Phaseolus vulgaris* L.) as a protective agent against DNA damage in mice. **Food & Chemical Toxicology**. 2003, 41, 1671-1676. Times cited: 111

**Gontijo AM\***, Green CM\*, Almouzni G. Repairing DNA damage in chromatin. **Biochimie**. 2003, 85, 1133-1147. \* Equal contribution. Times cited: 66

**Gontijo AM**, Marcondes JP, Elias FN, de Oliveira ML, de Lima RO, Salvadori DM, de Camargo JL. DNA damage in cytologically normal urothelial cells of patients with a history of urothelial cell carcinoma. **Environmental Molecular Mutagenesis**. 2002, 40, 190-199. Times cited: 17

**Gontijo AM**, Elias F, Salvadori DM, de Oliveira M, Correa LA, Goldberg J, Trindade JC, de Camargo JL. Single-cell gel (comet) assay detects primary DNA damage in nonneoplastic urothelial cells of smokers and ex-smokers. **Cancer Epidemiology Biomarkers & Prevention**. 2001, 10, 987-993. Times cited: 41

#### Patent

**Gontijo AM**, Mhlanga MM. "A synthetic genetic transcriptional-program sensor system for accessing, monitoring and intervening with any cell type and/or cell state in living organisms and its applications" Provisional patent request deposited, No108263, PPP50954/14, Portugal, 2015.

#### Book chapter

**Gontijo AM**, Tice RR. Comet assay for the detection of DNA damage and its repair at the single cell level. In: *Environmental Mutagenesis*. 2003, Ribeiro, L.R., Salvadori, D.M., Marques, E.K., ed. (ULBRA press). Times cited: 42

#### • INVITED AND SELECTED LECTURES AND CONFERENCE PRESENTATIONS (SELECTION)

- 2015 "Central sensing of peripheral growth perturbations", **Invited Talk**, IPO – Instituto Portugues de Oncologia, Lisbon, Portugal, Oct 29, 2015.
- 2015 "Dilp8 requires the neuronal relaxin receptor Lgr3 to couple growth to developmental timing", **Selected Talk**, 2015 Portuguese Drosophila Meeting, Tomar, Portugal, May 4-5, 2015.
- 2015 "A synthetic genetic transcriptional-program sensor system for accessing, monitoring and intervening with any cell type and/or cell state in living organisms", **Invited Lecturer**, Bioteams, MIT Portugal Program, May 14, 2015.
- 2014 "ARHGEF10 in degenerative diseases", **Talk**, The 4th Junior European Drosophila Investigator Meeting, Carry-le-Rouet, France, September 9-12, 2014.
- 2013 "Molecular physiology and evolution of a new pathway promoting developmental stability", **Invited Lecturer**, IMM, Lisbon, Portugal, December 2, 2013.
- 2013 "Molecular mechanisms of DILP8 activity", **Invited Talk**, 2<sup>nd</sup> Joint Meeting Portuguese and Spanish Societies for Developmental Biology (SPBD/SEBD), Lisbon, Nov 24-25, 2013.
- 2012 "Coordinating developmental timing with tissue growth", **Invited Lecturer**, CINVESTAV, Ciudad de Mexico, Mexico, June 8, 2012.
- 2012 "Coordinating developmental timing with tissue growth", **Invited Lecturer**, Department of Zoology, University of Cambridge, Cambridge, UK, May 31, 2012.
- 2012 "Coordinating developmental timing with tissue growth", **Invited Lecturer**, Institute of Integrative and Comparative Biology, University of Leeds, Leeds, UK, May 30, 2012.
- 2012 "Drosophila Insulin-like Peptide 8 and resource allocation decisions during development and adult life"; **Selected Poster Presentation**, 2012 Jacques Monod Conference "Emergence and Evolution of Developmental patterns", Roscoff, France, April 25-29, 2012.
- 2012 "Growing Imaginal Discs Secrete Insulin-like Peptide 8 to Mediate Plasticity of Growth and Maturation Time"; **Selected Talk**, 6<sup>th</sup> Canadian Dev. Biology Conf., Banff, Canada, Mar 8-11, 2012.

#### • ADDITIONAL TRAINING (total: 128 h of training)

- 2013 Transcriptome Analysis, Automatic Functional Annotation & Data Mining, Gulbenkian Training Program in Bioinformatics, Portugal.
- 2013 Whole Exome Sequencing and RNA-seq data analysis, GTPB, Portugal.

- 2013 Bioinformatics using Python for Biologists, GTPB, Portugal.  
 2013 Introduction to Phylogenetic Tree Building, GTPB, Portugal.

#### • COMPETITIVE FUNDING

- 2016-2018 “Interorgan communication during growth perturbation”. PTDC/BEXBCM/1370/2014 FCT, Portugal. Amount €199 950 (to A Gontijo); PI: A Gontijo.  
 2015-2017 “Generation of genetically-modified hiPSC cell lines for the development of a new transcriptional program sensor system for diagnoses and therapeutics”. iNOVA4Health, Portugal. Amount €30 000 (to A Gontijo); PIs: A Gontijo/C Brito/J Ramalho.  
 2013-2017 “FLY-PHY” “The molecular physiology and the evolution of a new pathway promoting developmental stability” FP7-PEOPLE-2013-CIG. Amount €100 000; PI: A Gontijo.  
 2008-2010 “FINDMETASTASIS”; funded by EU FP7-PEOPLE 220341; Amount: €159 166 to: A Gontijo/M Dominguez.  
 2005-2007 “The biochemistry of *C. elegans* suppressor of presenilin proteins”; Funded by: Conseil d'Ile de France, Amount: ~€100 000 to: A Gontijo/B Lakowski.

#### • RESEARCH DIRECTION EXPERIENCE

##### Current team members at the Integrative Biomedicine Laboratory, CEDOC, Portugal:

Name	Role	Funding/Program
Dr Fabiana Heredia	Associate Researcher	FCT Fellowship, Portugal
Dr Andres Garelli	Associate Researcher	CONICET, Argentina
Angela Dias	PhD Student	FCT Fellowship, Portugal
Andre Macedo	PhD Student	FCT Fellowship, ProRegM, Portugal
Maria João Cruz	PhD Student	FCT Fellowship, PhDRegMed, Portugal
Andreia P Casimiro	Lab Manager	Marie Curie CIG, EU
Catarina Nunes	MSc Student	U. of Lisbon, Portugal

##### Defended Theses & Previous team members

- MSc Student  
 2014-2015 Marcia Garcez, MSc in Biochemistry for Health, NOVA U. of Lisbon, Portugal.  
 2013-2014 Andreia P Casimiro, CEDOC/Escola superior de Saúde Egas Moniz MSc Program, Portugal.  
 2012-2013 Andre Macedo, CEDOC/University of Lisbon MSc Program, Portugal.

##### Research Fellows

- 2013-2014 Ana Leal, Faculdade de Ciencias, U of Lisbon, CEDOC, Volunteer.

##### Undergraduate students

- 2014-2015 Beatriz Silva, Faculdade de Ciencias, U of Lisbon, CEDOC, Volunteer.  
 2014-2014 Mariana Gil, Faculdade de Ciencias, U of Lisbon, CEDOC, Volunteer.  
 2014-2014 Marco Louro Faculdade de Ciencias, U of Lisbon, CEDOC, Volunteer.  
 2013-2013 Maria João Pardelha da Cruz, Instituto Superior Tecnico, Lisboa. Portugal.  
 2013-2013 Maria Madelena Nabais, CEDOC/FCM PIATI Program, Portugal.  
 2013-2013 Elisa Sofia Martins da Silva, CEDOC/FCM PIATI Program, Portugal.

##### Other co-supervisions:

- 2007-2012 Two Postdocs / 2 PhD students / 1 Technician, with Dr M Dominguez, at CSIC/UMH, Spain.  
 2005-2007 One Technician with Dr B. Lakowski, at Institut Pasteur, France.  
 1999-2002 Five undergraduate students, with Dr DM Salvadori, at Unesp, Brazil.

#### • TEACHING ACTIVITIES

- 2015 Invited Lecturer, MSc Program in Evolution and Development, U. of Lisbon, Portugal.  
 2015 Invited Lecturer, “Cellular and Molecular Mechanisms of Disease” course, FCT PhD Program: PhD Program in Aging and Chronic Diseases (PhDOC), Portugal.  
 2015 Lecturer, Module: “Development” & “Cancer”, FCT PhD ProRegeM, Portugal.

- 2015 Invited Lecturer, PhD Program in Bioengineering – Cell Therapies and Regenerative Medicine, Instituto de Medicina Molecular, Portugal.
- 2014 Lecturer, Module: “Development” & “Cancer”, FCT PhD ProRegeM, Portugal.
- 2014 Invited Lecturer, MSc Program in Evolution and Development, U. of Lisbon, Portugal.
- 2013 Invited Lecturer, MSc Program in Evolution and Development, U. of Lisbon, Portugal.
- 2008-11 Invited Lecturer, “Genetic Analysis” and “Neurogenesis and specification” modules, Instituto de Neurociencias PhD program, Spain.

- **OUTREACH ACTIVITIES**

- 2015 Participation in the European Corner of the European Researchers’ Night. Lisbon, Portugal, as a Marie Curie Program grantee. Two hours of direct interaction and discussions with the public.

- **INSTITUTIONAL RESPONSIBILITIES**

- 2014- Graduate Student Advisor, Evolution & Developmental Biology MSc program, U. of Lisbon, Portugal.
- 2014- Graduate Student Advisor, MSc Program in Biochemistry, NOVA U. of Lisbon, Portugal.
- 2013- Graduate Student Advisor, FCT PhD Program in Bioengineering, IST, Portugal.
- 2013- Graduate Student Advisor, FCT PhD Program in Regenerative Medicine, Portugal.
- 2012-2016 Faculty Member, FCT PhD Program in Regenerative Medicine, Portugal.

- **COMMISSIONS OF TRUST**

**Invited to Prize Juries, Scientific Evaluation Panels, Conference Organization**

- 2015-16 Member of the 2016 Portuguese Drosophila Meeting organizing committee.
- 2015 Evaluation Panel: *Fundação AstraZeneca Innovate Competition*, iMed 6.0 Conf., Lisbon.
- 2013-14 Evaluation Panel: *Fundação AstraZeneca Innovate Competition*, iMed 4.0 & 5.0 Conf., Lisbon.
- 2013 Prize Jury Member: *Fundação AstraZeneca Innovate Competition*, iMed 4.0 Conf., Lisbon.

**Invited Member of PhD and MSc committees & examinations**

- 2015 Ana Eugenio, MSc Thesis Examination, supervised by Patricia Beldade, IGC, Portugal.
- 2015 Denis Herrmann, PhD Thesis Examination, supervised by Ma Luisa Vasconcelos, CNP, Portugal.
- 2015 Om Rathore, PhD Thesis Committee, supervised by Rui Martinho, U. of Algarve, Portugal.
- 2014 Marisa Oliveira, PhD Thesis Examination, supervised by Christen Mirth, IGC, Portugal.
- 2014 Susana Ponte, MSc Thesis Examination, supervised by L Carvalho/A Jacinto, FCT, Portugal.
- 2014 Raquel Santos, PhD Thesis Examination, supervised by Elio Sucena, IGC, Portugal.
- 2013 Mariluz Gomez R., PhD Thesis Examination, supervised by Lars Jansen, IGC, Portugal.