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Full Professor

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1. EDUCATION/TRAINING (Formação)

INSTITUTION	DEGREE	YEAR	FIELD OF STUDY
Universidade do Estado do Rio de Janeiro – UERJ (Brazil)	B. Sc.	1983	Cell Biology
Université Paris XI – Orsay (France)	Ph. D.	1989	Microbiology/Genetics
IJPB-INRA - Versailles (France)	Post Doc	1992	Molecular Biology
BSPM - CSU - Fort Collins (EUA)	Sabbatical	2005	Phytopathology

2. POSITIONS AND HONORS. (Histórico profissional, serviços e distinções acadêmicas e prêmios)

Positions and Employment

1989-2000	Assistant Professor, Plant Physiology Lab, Departamento de Botânica IB USP, Brazil
2000-2002	Assistant Tenure Professor, Plant Molecular Biology Lab, Departamento de Botânica IB USP, Brazil
2002-2006	Associate Professor, Plant Molecular Biology Lab Director, Departamento de Botânica IB USP, Brazil
2006-present	Full Professor, GaTELab Director, Departamento de Botânica IB USP, Brazil
2006-2008	President of the Research Committee of the IBUSP.
2007-2009	Vice Head of the Departamento de Botânica IBUSP.
2009-2012	Head of the Departamento de Botânica IBUSP

Other Experience and Professional Membership

2002 - 2005	> National Academy of Sciences committee member to review the California Pierce's Disease research program
2008 - 2018	> BIOEN Research Program Committee Member, FAPESP
2006 - present	> Faculty Affiliate to Agricultural Sciences and Pest Management, College of Agricultural Sciences, CSU
2008 - present	> Member of the Life Science Advisory Committee to the FAPESP Scientific Director
2016 - 2018	> Molecular Sciences Undergraduate Course Director
2016 – present	> Systems and Synthetic Biology Lab Coordinator @ INOVA USP Initiative.
2015-present	> Member of the EBP international committee.
Current Member	> Brazilian Society of Genetics, AAAS, ASM, British Plant Pathology Society

HONORS AND AWARDS

2023	Elected member TWAS (The World Academy of Sciences)
2017	Associated Professor to the BSPP Department at Colorado State University, since 2007
2016	Elected member of ABC (Brazilian Academy of Sciences)
2015	Elected member of ACIESP (Sao Paulo State Academy of Sciences)
2012	Distinguished Professor in Biology of Molecular Sciences Undergraduate Students
2006	Botany Full Professor
2000	State Science Honor Award Recipient (as a member of the ONSA Consortium)
2000	Women in Science Honor Award Recipient from the "Claudia Magazine" for the completion of the <i>Xylella fastidiosa</i> genome
1997	CNPq (Brazil) Research Award Fellowship (1997-2021) 1B
1995	Patronesse of Biological Sciences Undergraduate Students
1992	Distinguished Botany Professor of Undergraduate Students Year: 1992, 1993, 1994, 1996, 1997
1988	CNRS (France) doctoral Fellowship

3. SELECTED 05 MOST RELEVANT PEER-REVIEWED PUBLICATIONS (IN CHRONOLOGICAL ORDER)

(Lista de até 5 resultados de pesquisa mais relevantes e de maior impacto.)

1. Miranda RP, Turrini PCG, Bonadio DT, Zerillo MM, Berselli AP, Creste S, **Van Sluys MA**. Genome Organization of Four Brazilian *Xanthomonas albilineans* Strains Does Not Correlate with Aggressiveness. *Microbiology Spectrum*, *in press*, DOI:10.1128/spectrum.02802-22
2. Ishida, Juliane K; Bini, A; Creste S; **Van Sluys, MA**. Towards defining the core *Saccharum* microbiome: input from five genotypes. *BMC Microbiology*, 2022 Aug 8;22(1):193. doi: 10.1186/s12866-022-02598-8.
3. Partida, Vania Gabriela Sedano; Dias, Henrique Moura; Corcino, Diana Susana Martinez]; **Van Sluys, MA** . Sucrose-phosphate phosphatase from sugarcane reveals an ancestral tandem duplication. **BMC Plant Biology**, v. 21, p. 23, 2021.
4. Souza, GM, **Van Sluys, MA** Lembke, Carolina Gimiliani Lee, Hayan Margarido, Gabriel Rodrigues Alves Hotta, Carlos Takeshi Gaiarsa, Jonas Weissmann Diniz, Augusto Lima Oliveira, Mauro De Medeiros Ferreira, Sávio De Siqueira Nishiyama, Milton Yutaka Ten-Caten, Felipe Ragagnin, Geovani Tolfo Andrade, Pablo De Moraes De Souza, Robson Francisco Nicastro, Gianluca Gonçalves Pandya, Ravi Kim, Changsoo Guo, Hui Durham, Alan Mitchell Carneiro, Monalisa Sampaio Zhang, Jisen Zhang, Xingtang Zhang, Qing Ming, Ray , *et al.* ; Assembly of the 373k gene space of the polyploid sugarcane genome reveals reservoirs of functional diversity in the world's leading biomass crop. *GigaScience*, v. 8, p. 1, 2019. **(co-first author)**
5. Garsmeur O, Droc G, Antonise R, Grimwood J, Potier B, Aitken K, Jenkins J, Martin G, Charron C, Hervouet C, Costet L, Yahiaoui N, Healey A, Sims D, Cherukuri Y, Sreedasyam A, Kilian A, Chan A, **Van Sluys MA**, Swaminathan K, Town C, Bergès H, Simmons B, Glaszmann JC, van der Vossen E, Henry R, Schmutz J, D'Hont A. A mosaic monoploid reference sequence for the highly complex genome of sugarcane. **Nat Commun**. 2018 Jul 6;9(1):2638. doi: 10.1038/s41467-018-05051-5. PubMed PMID: 29980662; PubMed Central PMCID: PMC6035169.
6. Lewin HA, Robinson GE, Kress WJ, Baker WJ, Coddington J, Crandall KA, Durbin R, Edwards SV, Forest F, Gilbert MTP, Goldstein MM, Grigoriev IV, Hackett KJ, Haussler D, Jarvis ED, Johnson WE, Patrinos A, Richards S, Castilla-Rubio JC, **Van Sluys MA**, Soltis PS, Xu X, Yang H, Zhang G. Earth BioGenome Project: Sequencing life for the future of life. *Proc Natl Acad Sci U S A*. 2018 Apr 24;115(17):4325-4333. doi: 10.1073/pnas.1720115115. PMID: 29686065
7. Nagel R, Turrini PC, Nett RS, Leach JE, Verdier V, **Van Sluys MA**, Peters RJ. An operon for production of bioactive gibberellin A4 phytohormone with wide distribution in the bacterial rice leaf streak pathogen *Xanthomonas oryzae* pv. *oryzicola*. **New Phytol**. 2017 May;214(3):1260-1266. doi: 10.1111/nph.14441. Epub 2017 Jan 30. **(co-corresponding author)**
8. Ochoa-Cruz EA, Cruz GMQ , Vieira AP, Van Sluys MA, Virus-like attachment sites as structural landmarks of plants retrotransposons, *Mobile DNA* 2016 7:14 DOI: 10.1186/s13100-016-0069-5
9. Metcalfe, Cushla J. ; Oliveira, Sarah G. ; Gaiarsa, Jonas W. ; Aitken, Karen S. ; Carneiro, Monalisa S. ; Zatti, Fernanda; **Van Sluys, M.A.** Using Quantitative Pcr With Retrotransposon-Based Insertion Polymorphisms as Markers In Sugarcane. **Journal Of Experimental Botany**, V. 66, P. 4239-4250, 2015.
10. Cruz, Guilherme M. Q. ; Metcalfe, Cushla J. ; De Setta, Nathalia ; Cruz, Edgar A. O. ; Vieira, Andréia Prata ; Medina, Rosario ; Van Sluys, Marie-Anne . Virus-Like Attachment Sites And Plastic CpG Islands: Landmarks Of Diversity In Plant Del Retrotransposons. *Plos One*, V. 9, P. E97099, 2014.

4. CV identifiers

FULL LATTES CV AT CNPQ: [5131787064674647](#)

FUNDING AT FAPESP: [MARIE-ANNE VAN SLUYS](#)

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5. RESEARCH SUPPORT (RECENT):

2016/17545-8

01/10/2017-30/09/2022 FAPESP "Genes, genomes & transposable elements contribution to plant-microbe interaction: a sugarcane study case" **Role: Project Director**

2015/13824-7

25/10/2015-30/10/2015 IPMB 2015-11th international Congress of Plant Molecular Biology **Role: Chair**

2008/52074-0

01/05/2009-30/01/2015 FAPESP "Sugarcane genome sequence: plant transposable elements are active contributors to gene structure variation, regulation and function". **Role: Project Director**

308197/2010-0 & 315442/2021-2

(CNPq) **Role: Project Director**

6. Overall Publications (Indicadores Quantitativos)

1) BOOKS: 03

2) PEER REVIEWED PAPERS: 108

3) CHAPTERS: 10

4) MASTER Students

4.a) 11

4.b) ONGOING 02

5) PHD Students

5.a) 25

5.b) ONGOING 03

6) PD supervision

6.a) 18

6.b) ONGOING 02

7) Citation Index WoS 6234/ Scopus 7269/GScholar 11375

8) Patents:01

7. OTHERS (Outros)

TEACHING EXPERIENCE

Undergraduate level: Plant Physiology, Plant Molecular Biology, Molecular Biology and Biodiversity and phylogeny, Prokaryotes biodiversity, Mobile Genetic Elements

Graduate level: Plant Molecular Genetics; Genomics; Transposable elements

UNDERGRADUATE & OTHER SUPERVISION:

Undergrad students: 15 (Scholarship 04 FAPESP, 08 CNPq)

Technical training: 12 (Fellowship 05 FAPESP, 01 CNPq)

Ongoing supervision:

Undergrad students: 02

Technical training: 02 Fellowship: 02 FAPESP