

CURRICULUM VITAE

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Education

- 2009 PhD in Biology. University Lyon 1, France, under the direction of Laurent Duret: Global trends of genomes evolution revealed by the analysis of the *Paramecium* genome
- 2006 MCs bioinformatics. University Paris 7, France
- 2003 Diploma of Higher Education (French: Diplôme Universitaire de Technologie) in Computer Science. University Paris 5, France

Appointments

- 2018-present Assistant Professor of Computational Biology, Mississippi State University
- 2017-18 Research Associate, Center for Mechanisms of Evolution at the Biodesign Institute, Arizona State University
- 2009 -17 Research Associate, Lynch lab, Indiana University

Teaching experience

- 2015 Guest lectures in BIOL-111 and BIOL-318 at Indiana University
- 2008-09 Guest lectures for Masters students at Ecole Normale Supérieure Lyon, France
- 2008 Teaching assistant at University Lyon 1, France (bioinformatics and biostatistics)

Awards

- 2008 Walter Fitch Award from the Society for Molecular Biology and Evolution

Publications

- Gout, J. F.**, Li, W., Fritsch, C., Li, A., Haroon, S., & Singh, L. (2017). The landscape of transcription errors in eukaryotic cells. *Science Advances* 3: e1701484.
- Lynch, M., Ackerman, M. S., **Gout, J. F.**, Long, H., Sung, W., Thomas, W. K., & Foster, P. L. (2016). Genetic drift, selection and the evolution of the mutation rate. *Nature Reviews Genetics*, 17(11), 704-714.
- Bright, L. J., **Gout, J. F.**, & Lynch, M. (2017). Early stages of functional diversification in the Rab GTPase gene family revealed by genomic and localization studies in Paramecium species. *Molecular biology of the cell*, 28(8), 1101-1110.
- JF Gout** and M Lynch (2015) Maintenance and loss of duplicated genes by dosage subfunctionalization. *Molecular Biology and Evolution* 32:2141-2148
- W Sung, MS Ackerman, **JF Gout**, SF Miller, E Williams, PL Foster, M Lynch (2015) Asymmetric Context-Dependent Mutation Patterns Revealed through Mutation–Accumulation Experiments. *Molecular Biology and Evolution* 32:1672-1683
- CL McGrath, **JF Gout**, P Johri, TG Doak, M Lynch (2014) Differential retention and divergent resolution of duplicate genes following whole-genome duplication. *Genome Research* 24:1665-1675
- CL McGrath, **JF Gout**, TG Doak, A Yanagi, M Lynch (2014) Insights into three whole-genome duplications gleaned from the Paramecium caudatum genome sequence. *Genetics* 197:1417-1428
- DP Singh, B Saudemont, G Guglielmi, O Arnaiz, **JF Gout**, Prajer, A Potekhin, et al. (2014) Genome-defence small RNAs exapted for epigenetic mating-type inheritance. *Nature* 509:447-452
- JF Gout**, WK Thomas, Z Smith, K Okamoto, M Lynch (2013) Large-scale detection of in vivo transcription errors. *Proceedings of the National Academy of Sciences* 110:18584-18589
- DR Schrider, **JF Gout**, MW Hanh (2011) Very Few RNA and DNA Sequence Differences in the Human Transcriptome. *PLoS ONE* 6 (10), e25842
- M Lynch, LM Bobay, F Catania, **JF Gout**, M Rho (2011) The repatterning of eukaryotic genomes by random genetic drift. *Annual review of genomics and human genetics* 12:347-366
- JK Nowak, R Gromadka, M Juszczuk, M Jerka-Dziadosz, K Maliszewska, MH Mucchielli, **JF Gout**, et al. (2011) Functional study of genes essential for autogamy and nuclear reorganization in Paramecium. *Eukaryotic cell* 10:363-372
- K Bouhouche, **JF Gout**, A Kapusta, M Bétermier, E Meyer (2011) Functional specialization of Piwi proteins in Paramecium tetraurelia from post-transcriptional gene silencing to genome remodeling. *Nucleic acids research* 39:4249-64
- O Arnaiz, **JF Gout**, M Bétermier, K Bouhouche, J Cohen, L Duret, A Kapusta, et al. (2010) Gene expression in a paleopolyploid: a transcriptome resource for the ciliate Paramecium tetraurelia. *BMC Genomics* 11:547

- JF Gout**, D Kahn, L Duret, Paramecium Post-Genomics Consortium (2010) The relationship among gene expression, the evolution of gene dosage, and the rate of protein evolution. *PLoS Genetics* e1000944
- JF Gout**, L Duret, D Kahn (2009) Differential retention of metabolic genes following whole-genome duplication. *Molecular biology and evolution* 26:1067-1072
- G Lepere, M Nowacki, V Serrano, **JF Gout**, G Guglielmi, S Duhaucourt, E Meyer (2009) Silencing-associated and meiosis-specific small RNA pathways in Paramecium tetraurelia. *Nucleic acids research* 37: 903-915
- L Duret, J Cohen, C Jubin, P Dessen, **JF Goût**, S Mousset, JM Aury, et al. (2008) Analysis of sequence variability in the macronuclear DNA of Paramecium tetraurelia: a somatic view of the germline. *Genome Research* 18: 585-596
- O Jaillon, K Bouhouche, **JF Gout**, JM Aury, B Noel, B Saudemont, M Nowacki, V Serrano, et al. (2008) Translational control of intron splicing in eukaryotes. *Nature* 451: 359-362