AURÉLIEN GINOLHAC

Bioanalyst, Providing bioinformatic services to the *Life Sciences Research Unit*
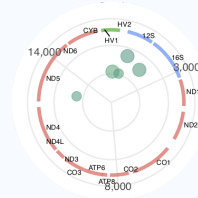
🎓 EDUCATION

2006
|
2003

PhD. In bioinformatics. Study of bacterial polyketide synthases
University Claude Bernard   📍 Lyon, France

• Joint supervision industry/ university (CIFRE)

2003
|
2001

Master in bioinformatics (french "DESS")
University of Rouen   📍 Rouen, France

• apprenticeship over one year in industry

💻 RESEARCH EXPERIENCE

2019
|
2014

Research Scientist
University of Luxembourg   📍 Belvaux, Luxembourg

• Head of the bioinformatic core for the *LSRU*

2014
|
2012

Postdoctoral fellow
Centre for GeoGenetics   📍 Copenhagen, Denmark

• Bioanalyst, equids evolution and ancient DNA
• Marie-Curie Fellowship

2012
|
2010

Postdoctoral fellow
Centre for GeoGenetics   📍 Copenhagen, Denmark

• ancient DNA

🏭 INDUSTRY EXPERIENCE

2010
|
2006

Research Scientist
LibraGen SA.   📍 Toulouse, France

• Biocatalysis, bioinformatics
• System administration

2006
|
2003

PhD Candidate
LibraGen SA.   📍 Lyon, France

• bioinformatics and metagenomic
• System administration

📥 Download a PDF of this CV

CONTACT

✉ ginolhac@gmail.com
🐙 github.com/ginolhac
🔗 lsru bioinfo core
📞 (352) 661-172104

SKILLS

Proficient in

® R
△ GNU/Linux environment
HPC with `slurm`

Experienced with

python
Bash
GNU AWK

Last updated on 2019-10-11.

🖥 TEACHING EXPERIENCE

2019 | 2014

● **Biostatistics 2. Bachelor in Life Sciences**
University of Luxembourg 📍 Belvaux, Luxembourg

• 60 hours with half hands-on. 7 ECTS
• https://biostat2.uni.lu/

2019 | 2016

● **Workshop on data processing with R tidyverse**
University of Luxembourg 📍 Belvaux, Luxembourg

• Four days course with half hands-on. 2 ECTS
• With Dr. Roland Krause via Elixir Luxembourg
• https://rworkshop.uni.lu/

2014 | 2012

● **Workshop on ancient DNA analysis**
Danish Technology University 📍 Lyngby, Denmark

• Practical course in the *Next Generation Sequencing* Analysis

2010

● **Paleogenomic workflows at the Center for GeoGenetics**
CNRS Summer School 📍 Cargese, France

• Lectures and hands-on sessions

📖 PUBLICATIONS

2019

● **Early Pleistocene enamel proteome from Dmanisi resolves Stephanorhinus phylogeny**

Cappellini, E. Welker, F. Pandolfi, L. Ramos-Madrigal, J. Samodova, D. Ruther, P. L. Fotakis, A. K. Lyon, D. Moreno-Mayar, J. V. Bukhsianidze, M. Rakownikow Jersie-Christensen, R. Mackie, M. **Ginolhac, A**. Ferring, R. Tappen, M. Palkopoulou, E. Dickinson, M. R. Stafford, T. W. Chan, Y. L. Gotherstrom, A. Nathan, S. K. S. S. Heintzman, P. D. Kapp, J. D. Kirillova, I. Moodley, Y. Agusti, J. Kahlke, R. D. Kiladze, G. Martinez-Navarro, B. Liu, S. Sandoval Velasco, M. Sinding, M. S. Kelstrup, C. D. Allentoft, M. E. Orlando, L. Penkman, K. Shapiro, B. Rook, L. Dalen, L. Gilbert, M. T. P. Olsen, J. V. Lordkipanidze, D. and Willerslev, E. *Nature* **574**, 103–107

● **Identification of genes under dynamic post-transcriptional regulation from time-series epigenomic data**

Becker, J. C. Gerard, D. **Ginolhac, A**. Sauter, T. Sinkkonen, L. *et al. Epigenomics* **11**, 619–638

● **TREM2 triggers microglial density and age-related neuronal loss**

Linnartz-Gerlach, B. Bodea, L. G. Klaus, C. **Ginolhac, A**. Halder, R. *et al. Glia* **67**, 539–550

● **Temporal enhancer profiling of parallel lineages identifies AHR and GLIS1 as regulators of mesenchymal multipotency**

Gerard, D. Schmidt, F. **Ginolhac, A**. Schmitz, M. Halder, R. *et al. Nucleic Acids Res.* **47**, 1141–1163

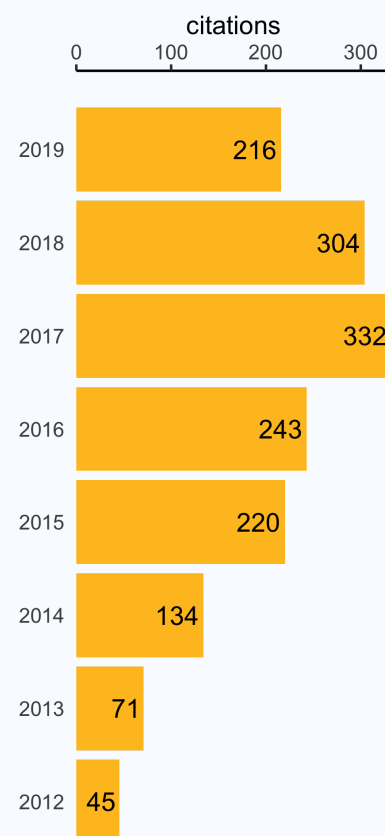
Summary

Total number of peer-reviewed publications: **29**

5 as leading author

Total number of citations: **1,692**
Average citation **60.43**
ORCID ID: 0000-0001-7665-9547

H-index: 18

citations

| 0 | 100 | 200 | 300 |

2019	216
2018	304
2017	332
2016	243
2015	220
2014	134
2013	71
2012	45

data from ISI Web of Knowledge

2018 ● **Cytokine-mediated modulation of the hepatic miRNome: miR-146b-5p is an IL-6-inducible miRNA with multiple targets**

Kirchmeyer, M. Servais, F. A. Hamdorf, M. Nazarov, P. V. **Ginolhac, A**. Halder, R. Vallar, L. Glanemann, M. Rubie, C. Lammert, F. *et al. J. Leukoc. Biol.* **104**, 987–1002

● **The PD-L1- and IL6-mediated dampening of the IL27/STAT1 anti-cancer responses are prevented by α-PD-L1 or α-IL6 antibodies**

Rolvering, C. Zimmer, A. D. **Ginolhac, A**. Margue, C. Kirchmeyer, M. Servais, F. Hermanns, H. M. Hergovits, S. Nazarov, P. V. Nicot, N. *et al. J. Leukoc. Biol.* **104**, 969–985

● **The miR-371 similar to 373 Cluster Represses Colon Cancer Initiation and Metastatic Colonization by Inhibiting the TGFBR2/ID1 Signaling Axis**

Ullmann, P. Rodriguez, F. Schmitz, M. Meurer, S. K. Qureshi-Baig, K. Felten, P. **Ginolhac, A**. Antunes, L. Frasquilho, S. Zugel, N. *et al. Cancer Res.* **78**, 3793–3808

2017 ● **Loss of Myosin Vb in colorectal cancer is a strong prognostic factor for disease recurrence**

Letellier, E. Schmitz, M. **Ginolhac, A**. Rodriguez, F. Ullmann, P. *et al. Br. J. Cancer* **117**, 1689–1701

● **Crosstalk between different family members: IL27 recapitulates IFN γ responses in HCC cells, but is inhibited by IL6-type cytokines**

Rolvering, C. Zimmer, A. D. Kozar, I. Hermanns, H. M. Letellier, E. Vallar, L. Nazarov, P. V. Nicot, N. **Ginolhac, A**. Haan, S. *et al. Biochim Biophys Acta Mol Cell Res* **1864**, 516–526

2016 ● **Hypoxia-responsive miR-210 promotes self-renewal capacity of colon tumor-initiating cells by repressing ISCU and by inducing lactate production**

Ullmann, P. Qureshi-Baig, K. Rodriguez, F. **Ginolhac, A**. Nonnenmacher, Y. Ternes, D. Weiler, J. Gabler, K. Bahlawane, C. Hiller, K. *et al. Oncotarget* **7**, 65454–65470

2015 ● **Role of Calprotectin as a Modulator of the IL27-Mediated Proinflammatory Effect on Endothelial Cells**

Dorosz, S. A. **Ginolhac, A**. Kahne, T. Naumann, M. Sauter, T. *et al. Mediators Inflamm.* **2015**, 737310

Evolutionary Genomics and Conservation of the Endangered Prze-walski's Horse

Der Sarkissian, C. Ermini, L. Schubert, M. Yang, M. A. Librado, P. Fumagalli, M. Jonsson, H. Bar-Gal, G. K. Albrechtsen, A. Vieira, F. G. Petersen, B. **Ginolhac, A**. Seguin-Orlando, A. Magnussen, K. Fages, A. Gamba, C. Lorente-Galdos, B. Polani, S. Steiner, C. Neuditschko, M. Jagannathan, V. Feh, C. Greenblatt, C. L. Ludwig, A. Abramson, N. I. Zimmermann, W. Schafberg, R. Tikhonov, A. Sicheritz-Ponten, T. Willerslev, E. Marques-Bonet, T. Ryder, O. A. McCue, M. Rieder, S. Leeb, T. Slatkin, M. and Orlando, L. *Curr. Biol.* **25**, 2577–2583

2014

Prehistoric genomes reveal the genetic foundation and cost of horse domestication

Schubert, M. Jonsson, H. Chang, D. Der Sarkissian, C. Ermini, L. **Ginolhac, A**. Albrechtsen, A. Dupanloup, I. Foucal, A. Petersen, B. *et al. Proc. Natl. Acad. Sci. U.S.A.* **111**, E5661–5669

Speciation with gene flow in equids despite extensive chromosomal plasticity

Jonsson, H. Schubert, M. Seguin-Orlando, A. **Ginolhac, A**. Petersen, L. Fumagalli, M. Albrechtsen, A. Petersen, B. Korneliussen, T. S. Vilstrup, J. T. *et al. Proc. Natl. Acad. Sci. U.S.A.* **111**, 18655–18660

Characterization of ancient and modern genomes by SNP detection and phylogenomic and metagenomic analysis using PALEOMIX

Schubert, M. Ermini, L. Der Sarkissian, C. Jonsson, H. **Ginolhac, A**. Schaefer, R. Martin, M. D. Fernandez, R. Kircher, M. McCue, M. *et al. Nat Protoc* **9**, 1056–1082

2013

A comparative study of ancient environmental DNA to pollen and macrofossils from lake sediments reveals taxonomic overlap and additional plant taxa

Pedersen, Mikkel Winther **Ginolhac, A**urelien Orlando, Ludovic Olsen, Jesper Andersen, Kenneth *et al. Quaternary Science Reviews* **75**, 161–168

Recalibrating Equus evolution using the genome sequence of an early Middle Pleistocene horse

Orlando, L. **Ginolhac, A**. Zhang, G. Froese, D. Albrechtsen, A. Stiller, M. Schubert, M. Cappellini, E. Petersen, B. Moltke, I. *et al. Nature* **499**, 74–78

mapDamage2.0: fast approximate Bayesian estimates of ancient DNA damage parameters

Jonsson, H. **Ginolhac, A**. Schubert, M. Johnson, P. L. Orlando, L. *et al. Bioinformatics* **29**, 1682–1684

Mitochondrial phylogenomics of modern and ancient equids

Vilstrup, J. T. Seguin-Orlando, A. Stiller, M. **Ginolhac, A**. Raghavan, M. Nielsen, S. C. Weinstock, J. Froese, D. Vasiliev, S. K. Ovodov, N. D. *et al. PLoS ONE* **8**, e55950

2012

Improving ancient DNA read mapping against modern reference genomes

Schubert, M. **Ginolhac, A**. Lindgreen, S. Thompson, J. F. Al-Rasheid, K. A. *et al. BMC Genomics* **13**, 178

Improving the performance of true single molecule sequencing for ancient DNA

Ginolhac, A. Vilstrup, J. Stenderup, J. Rasmussen, M. Stiller, M. Shapiro, B. Zazula, G. Froese, D. Steinmann, K. E. Thompson, J. F. *et al. BMC Genomics* **13**, 177

Proteomic analysis of a pleistocene mammoth femur reveals more than one hundred ancient bone proteins

Cappellini, E. Jensen, L. J. Szklarczyk, D. **Ginolhac, A**. da Fonseca, R. A. Stafford, T. W. Holen, S. R. Collins, M. J. Orlando, L. Willerslev, E. *et al. J. Proteome Res.* **11**, 917–926

2011

True single-molecule DNA sequencing of a pleistocene horse bone

Orlando, L. **Ginolhac, A**. Raghavan, M. Vilstrup, J. Rasmussen, M. Magnussen, K. Steinmann, K. E. Kapranov, P. Thompson, J. F. Zazula, G. *et al. Genome Res.* **21**, 1705–1719

mapDamage: testing for damage patterns in ancient DNA sequences

Ginolhac, A. Rasmussen, M. Gilbert, M. T. Willerslev, E. Orlando, L. *et al. Bioinformatics* **27**, 2153–2155

2008

Drugs from hidden bugs: their discovery via untapped resources

Lefevre, F. Robe, P. Jarrin, C. **Ginolhac, A**. Zago, C. *et al. Res. Microbiol.* **159**, 153–161

2007

Environmental metagenomics: An innovative resource for industrial biocatalysis

Lefevre, Fabrice Jarrin, Cyrille **Ginolhac, A**urelien Auriol, Daniel Nalin, Renaud *et al. Biocatalysis & Biotransformation* **25**, 242-250

2005

Type I polyketide synthases may have evolved through horizontal gene transfer

Ginolhac, A. Jarrin, C. Robe, P. Perriere, G. Vogel, T. M. *et al. J. Mol. Evol.* **60**, 716–725

2004

Phylogenetic analysis of polyketide synthase I domains from soil metagenomic libraries allows selection of promising clones

Ginolhac, A. Jarrin, C. Gillet, B. Robe, P. Pujic, P. Tuphile, K. Bertrand, H. Vogel, T. M. Perriere, G. Simonet, P. *et al. Appl. Environ. Microbiol.* **70**, 5522–5527

2000

Functional cytochrome oxidase histochemistry in the honeybee brain

Armengaud, C. Causse, N. Ait-Oubah, J. **Ginolhac, A**. Gauthier, M. *et al. Brain Res.* **859**, 390–393

🌐 PATENTS

2010

Hydrosoluble [6)-O- \(\alpha\) -D-Glcp-(1 \(\rightarrow\)]\(_n\)-6-O-\(\beta\)-D-Glcp-(1\(\rightarrow\))-phenolic Derivatives With Dermo-cosmetic, Nutritional And Therapeutic Applications, And Compositions Containing Said Water Soluble Compounds

Auriol, D. **Ginolhac, A**. Lefevre, F. *et al. Patent* **WO 2010/072754 A1**,

2009

Method For Preparing C-6 Phosphorylated D-aldohexoses And C-6 Phosphorylated D-aldohexoses Derivatives And New C-6 Phosphorylated D-aldohexoses Derivatives

Auriol, D. Nalin, R. Lefevre, F. **Ginolhac, A**. De Guembecker, D. *et al. Patent* **WO 2008/142155 A3**,