

*Complete List of Publications***Overview**

In Google Scholar (as of October 18, 2023): >7,086 citations; h index 33; i10 index 48  
 Total of 77 peer-reviewed scientific publications, including 6 reviews (R-)

**Peer-reviewed Scientific Journals**

(times cited as of October 18, 2023)

- 53** Teulet A, Camuel A, **Perret X**, Giraud E (2022) The versatile roles of type III secretion systems in rhizobia-legume symbioses *Annu. Rev. Microbiol.* **76**: *in press*. (16)
- Unay J, **Perret X** (2020) A minimal genetic passkey to unlock many legume doors to root nodulation by rhizobia. *Genes* **11**: 521. (4)
- Fossou RK, Pothier JF, Zézé A, Barja F, **Perret X** (2020) *Bradyrhizobium ivorensense* sp. nov. as a potential bioinoculant for *Cajanus cajan* in Côte d'Ivoire. *Int. J. Syst. Evol. Microbiol.* **70**: 1421-1430. (14)
- 50** Cherni AE, **Perret X** (2019) Deletion of rRNA operons of *Sinorhizobium fredii* strain NGR234 and impact on symbiosis with legumes. *Frontiers Microbiol.* **10**: 154. (7)
- Saad MM, Michalet S, Fossou RK, Putnik-Delić M, Crèvecoeur M, Meyer J, de Malézieux C, Hopfgartner G, Maksimovic I, **Perret X** (2018) Loss of NifQ leads to accumulation of porphyrins and altered metal-homeostasis in nitrogen-fixing symbioses. *Mol Plant Microbe Interact.* **32**: 208-216. (9)
- Temprano-Vera F, Rodriguez-Navarro DN, Acosta-Jurado S, **Perret X**, Fossou RK, Navarro-Gómez P, Zhen T, Yu D, An Qi, Buendia-Claveria AM, Moreno J, López-Baena J, Ruiz-Sainz JE, Vinardell JM (2018) *Sinorhizobium fredii* strains HH103 and NGR234 form nitrogen fixing nodules with diverse wild soybeans (*Glycine soja*) from Central China but are ineffective on Northern China accessions. *Frontiers Microbiol.* **9**: 2843. (22)
- Fossou RK, Ziegler D, Zézé A, Barja F, **Perret X** (2016) Two major clades of bradyrhizobia dominate symbiotic interactions with pigeonpea in fields of Côte d'Ivoire. *Frontiers Microbiol.* **7**: 1793. (25)
- Andrés-Barrao C, Saad MM, Cabello Ferrete E, Bravo D, Chappuis ML, Ortega Pérez R, **Perret X**, Barja F (2016) Metaproteomic and ultrastructure characterization of *Komagataeibacter* spp. involved in high-acid spirit vinegar production. *Food Microbiol.* **55**: 112-122. (50)
- 45** Ziegler D, Pothier JF, Ardley J, Foussou RK, Pflüger V, de Meyer S, Vogel G, Tonolla M, Howieson J, Reeve W, **Perret X** (2015) Ribosomal protein biomarkers provide root nodule bacterial identification by MALDI-TOF MS. *Appl Microbiol Biotechnol.* **99**: 5547-5562. (59)
- Storelli N, Peduzzi S, Saad MM, Frigaard NU, **Perret X**, Tonolla M (2014) Proteomic analysis of the purple sulfur bacterium *Candidatus "Thiodictyon syntrophicum"* strain Cad16T isolated from Lake Cadagno. *EU Prot.* **2**: 17-30. (15)
- Storelli N, Peduzzi S, Saad MM, Frigaard NU, **Perret X**, Tonolla M (2013) CO<sub>2</sub> assimilation in the chemocline of Lake Cadagno is dominated by a few types of phototrophic purple sulfur bacteria. *FEMS Microbiol Ecol.* **84**: 421-432. (55)
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- Ziegler D, Mariotti A, Pflüger V, Saad M, Vogel G, Tonolla M, **Perret X**. (2012) *In situ* identification of plant-invasive bacteria with MALDI-TOF mass spectrometry. *PLoS One.* **7**: e37189. (53)
- 40** Peduzzi S, Storelli N, Welsh A, Peduzzi R, Hahn D, **Perret X**, Tonolla M (2012) *Candidatus "Thiodictyon syntrophicum"*, sp. nov., a new purple sulfur bacterium isolated from the chemocline of Lake Cadagno forms aggregates and specific associations with *Desulfocapsa* sp. *Syst Appl Microbiol.* **35**: 139-144. (32)
- Andrés-Barrao C, Saad MM, Chappuis ML, Boffa M, **Perret X**, Ortega Pérez R, Barja F (2012) Proteome analysis of *Acetobacter pasteurianus* during acetic acid fermentation. *J Proteomics* **75**: 1701-1717. (80)
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- 37** Masson-Boivin C, Giraud E, **Perret X**, Batut J (2009) Establishing nitrogen-fixing symbiosis with legumes: how many *rhizobium* recipes? *Trends Microbiol.* **17**: 458-466. (R-682)

- 36** Schmeisser C, Liesegang H, Kryszak D, Bakkou N, Le Quéré, A, Wollherr A, Heinemeyer I, Morgenstern B, Pommering-Röser A, Flores M, Palacios R, Brenner S, Gottschalk G, Schmitz RA, Broughton WJ, **Perret X**, Strittmatter AW, Streit WR (2009) *Rhizobium* sp. strain NGR234 possesses a remarkable number of secretion systems. *Appl Environ Microbiol* **75**: 4035-4045. (189)
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- 30** Kobayashi H, Naciri-Graven Y, Broughton WJ, **Perret X** (2004) Flavonoids induce temporal shifts in gene-expression of nod-box controlled loci in *Rhizobium* sp. NGR234. *Mol Microbiol* **51**: 335-347. (167)
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- 25** Izallalen M, Levesque RC, **Perret X**, Broughton WJ, Antoun A (2002) Broad-host-range mobilizable suicide vectors promoter trapping in Gram-negative bacteria. *Biotech* **33**: 1038-1040. (6)
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- Perret X**, Parsons J, Viprey V, Reichwald K, Broughton WJ (2001) Séquences répétées des génomes de *Rhizobium* sp. NGR234 et *Sinorhizobium meliloti*: une analyse comparative par séquençage aléatoire. *Can J Microbiol* **47**: 548-558. (7)
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- Perret X**, Freiberg C, Rosenthal A, Broughton WJ, Fellay R (1999) High resolution transcriptional analysis of the symbiotic replicon of *Rhizobium* sp. NGR234. *Mol Microbiol* **32**: 415-425. (164)
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- 14** Flores M, Mavingui P, Girard L, **Perret X**, Broughton WJ, Martínez-Romero E, Dávila G, Palacios R (1998) Three replicons of *Rhizobium* sp. strain NGR234 harbor symbiotic gene sequences. *J Bacteriol* **180**: 6052-6053. (33)

- 13 **Perret X**, Broughton WJ (1998) Rapid identification of *Rhizobium* strains by Targeted PCR Fingerprinting. *Plant Soil* **204**:21-34. (60)
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- 10 Rochepeau P, Fellay R, Jabbouri S, **Perret X**, Broughton WJ (1997) Region II of *Rhizobium* sp. NGR234 inhibits nodulation of *Medicago sativa* by *R. meliloti nodJ* and *nodQ1* mutants. *Mol Plant-Microbe Interact* **10**: 978-983. (3)
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- 5 Fellay R, **Perret X**, Broughton WJ, Brenner S (1995) Organization of host-inducible transcripts on the symbiotic plasmid of *Rhizobium* species NGR234. *Mol Microbiol* **16**: 657-667. (74)
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## Peer-reviewed Books

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- 9 Unay J, Perret X (2019) Synthetic plasmids to challenge symbiotic nitrogen fixation between rhizobia and legumes. In "*Methods in Rhizosphere Biology Research*", eds Sharma AK, Reinhardt D; 3-18. (9)
- Ziegler D, Tonolla M, **Perret X** (2015) Rapid identification of nodule bacteria with MALDI-TOF mass spectrometry. In "*Biological Nitrogen Fixation*", vol. 2, ed de Bruijn FJ (Wiley, UK) pp. 1153-1162. (-)
- Huyghe A, Bakkou N, **Perret X** (2015) Profiling symbiotic responses of *Sinorhizobium fredii* strain NGR234 with RNA-seq. In "*Biological Nitrogen Fixation*", vol. 2, ed de Bruijn FJ (Wiley, UK) pp. 649-658. (7)
- Mavingui P, **Perret X**, Broughton WJ (2005) Genomic architecture of the multiple replicons of the promiscuous *Rhizobium* species NGR234. In "*Genomes and genomics of nitrogen fixing organisms*", eds Palacios R, Newton WE (Springer, Netherlands) pp. 83-98. (1)
- 5 **Perret X** (2001) BIME, ERIC, REP, RIME, and other short bacterial repeated elements. In "*Encyclopedia of Genetics*", eds Brenner S, Miller JH (Academic Press, USA) p.p 214-215. (1)
- Viprey V, **Perret X**, Broughton WJ (2000) Host-plant invasion by rhizobia. In "*Bacterial Invasion into Eukaryotic Cells*", eds Hacker J, Olschläger T (Plenum Publishing Company) pp. 437-456. (13)
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- Perret X**, Broughton WJ (2000) Exchange of Molecular Signals Coordinates Gene Expression in Rhizobia and Legume-Hosts. In "*Integrated Plant Systems*", eds Greppin H, Penel C, Broughton WJ, Strasser R (University of Geneva) pp. 151-160. (-)
- 1 **Perret X**, Broughton WJ (1998) Rapid identification of *Rhizobium* strains by Targeted PCR Fingerprinting. In "*Molecular Microbial Ecology of the Soil*", eds Hardarson G, Broughton WJ (Kluwer Academic Publishers, Netherlands) pp. 21-34. (-)

## Peer-reviewed Conference Proceedings

(times cited on March 24, 2022)

- 15** **Perret X**, Liesegang H, Schmeisser C, Schmitz R, Streit W, Broughton WJ (2006) A high resolution physical and genetic map of the megaplasmid of *Rhizobium* sp. NGR234. In “**Biology of Molecular Plant-Microbe Interactions**”, 12<sup>th</sup> International Congress on Molecular Plant-Microbe Interactions (Mérida, 2005), eds Sanchez F, Quinto C, Lopez-Lara IM, Geiger O (Soc Mol Plant-Microbe Interac USA) pp. 480-483. (-)
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- 5** Palacios R, Boistard P, Davila G, Fonstein M, Göttfert M, **Perret X**, Ronson C, Sobral B (1998) Genome structure in nitrogen-fixing organisms. In “**Biological Nitrogen Fixation for the 21<sup>st</sup> Century**”, 11<sup>th</sup> International Congress on Nitrogen Fixation (Paris 1997) eds Elmerich C, Kondorosi A, Newton WE (Kluwer Academic Publishers, Netherlands) pp. 541-548. (8)
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### Other publications - Newspaper Articles

- Guignard B.** (2021) Des bactéries symbiotiques indigènes pourraient booster les légumineuses *Terre & Nature*, p9 (édition du 25 février 2021).
- Perret X** (2019) Quand les racines des légumineuses se parent de pourpre *The Science Breaker*, p.12.
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