

Professor Simonetta GRIBALDO

Born in Rome (Italy) 05/09/1969

Nationality: Italian

Head of Unit "Evolutionary Biology of the Microbial Cell"

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RESEARCH INTERESTS

Early evolution and diversity of microorganisms.

Main transitions on the Tree of Life.

Phylogenomics, metagenomics.

Global phylogenies of Bacteria and Archaea.

Origin, diversity and evolution of archaeal methanogens.

Origin, diversity and evolution of cell envelopes.

Non-model bacteria and archaea.

EDUCATION

2009	Habilitation à Diriger les Recherches (University Pierre et Marie Curie, Paris, France)
2001	PhD in Phylogenetics (University "La Sapienza", Rome, Italy)
1992	Laurea (B.A. Hon) in Biology (University of Catania, Italy)

POSITIONS HELD

2018-present	Head of Unit, Institut Pasteur, Paris
2013-2018	Associate Professor, (Directeur de Recherche), Institut Pasteur, Paris
2005-2013	Assistant Professor (Chargé de Recherche), Institut Pasteur, Paris
2004-2005	Assistant Lecturer (ATER), University Paris VI, Paris
2003-2004	Post-doctoral fellow, Institut Pasteur, Paris
2002-2003	Post-doctoral fellow, University of Orsay
2001-2002	Post-doctoral fellow, University Pierre et Marie Curie, Paris
1995-1996	Visiting Scientist, Central Public Health Laboratory, London

AWARDS & DISTINCTIONS

2019:	Visiting Professorship Award, Miller Institut, UC Berkeley
2019:	Elected Fellow of the American Academy of Microbiology
2016:	Prix Pasteur-Vallery Radot
2016:	Prix Fondation pour la Recherche iXcore

SELECTED CONFERENCES

2019	• Gordon Research Conference Archaea (Les Diableret, Switzerland) (Chair) • 7th Annual ELSI International Symposium (Tokyo, Japan) (Invited Speaker) • Life Sciences Switzerland (LS2) Annual Meeting (Zurich, Switzerland) (Invited Speaker) • NeLLi 2019 Symposium, "From New Lineages of Life To New Functions" (San Francisco, USA) (Invited Speaker)
2018	• Microbial Systematics for the Next Decade Workshop (Portland, USA) (Invited Speaker)

- 6th International Conference on Molecular Biology of the Archaea (Vienna, Austria) (Scientific Committee and Invited Speaker)
- ASM Microbe 2018 (Atlanta, USA) (Symposium Moderator and Invited Speaker “What’s new in the Tree of Life?”)
- 2017**
 - Franco-Australian School and Workshop on Exobiology, Canberra, Australia (Invited Speaker)
 - Meeting in honor of Lynn Margulis (Colegio National, Mexico City, Mexico) (Invited Speaker)
 - Gordon Conference Archaea (Waterville, US) (Invited Speaker)
- 2016**
 - ASM Microbe 2016 (Boston, USA) (Symposium Organizer “Growing the Tree of Life”)
 - 5th International Conference on Molecular Biology of the Archaea (London, UK) (Scientific Committee and Invited Speaker)
- 2015**
 - Meeting “Major Transitions in Evolution” (Mexico City, Mexico) (Invited Speaker)
 - Colloquium “Looking in the Right Direction: Carl Woese and the New Biology” (Urbana-Champaign, USA) (Invited Speaker)
 - Society for Molecular Evolution (SMBE) Annual Meeting (Vienna, Austria) (Symposium Organizer “The Golden Age of Archaea”)
- 2014**
 - 4th International Conference on Molecular Biology of the Archaea (IP Paris) (Organizer)
- 2013**
 - Gordon Conference Archaea (Lucca, Italy) (Invited Speaker)
- 2012**
 - International colloquium “Origin of sex and modern eukaryotes” (Fondation Des Treilles, France) (Organizer and Speaker)

PUBLICATIONS

78 articles, 4 book chapters 5 publications for the large audience (4 articles and one book).

H Factor 45 (Google Scholar).

A: Articles; R: Reviews; O: Opinion; E: Editorial; RH: Research Highlight (underlined names correspond to supervised students and postdocs).

2019:

A-78. Adam PS, Borrel G, Gribaldo S (2019) Increased genomic sampling reveals the deep archaeal roots of bacterial methylotrophy. *Nat Microbiol* (in press).

A-77. Aouad M, Borrel G, Brochier-Armanet C, Gribaldo S (2019) Evolutionary placement of Methanonatronarchaeia. *Nat Microbiol* 4(4):558-559. CORRESPONDENCE

A-76. Borrel G, Adam PS, McKay LG, Chen L, Sierra-García IN, Sieber CMK, Andersen GL, Li WJ, Hallam SJ, Muyzer G, Maia de Oliveira V, Inskeep WP, Banfield JF, and Gribaldo S. Genome resolved metagenomics illuminates the evolutionary landscape of methanogenic, methanotrophic, and short-chain alkane oxidizing archaea. *Nat Microbiol* 4(4):603-613.

2018:

A-74. Adam PS, Borrel G, Gribaldo S (2018) Evolutionary history of carbon monoxide dehydrogenase/acetyl-CoA synthase, one of the oldest enzymatic complexes. *Proc Natl Acad Sci U S A* 115(6): E1166-E1173.

2017:

A-73. Adam PS, Borrel G, Brochier-Armanet C, Gribaldo S (2017) The growing tree of Archaea: new perspectives on their diversity, evolution and ecology. *ISME J* 11(11): 2407-2425.

A-72. Poppleton DJ, Duchateau M, Hourdel V, Matondo M, Flechsler J, Klingl A, Beloin C, Gribaldo S (2017) Outer membrane proteome of *Veillonella parvula* : a diderm Firmicute of the human microbiome. *Front Microbiol* 8: 1215.

2016:

A-71. Gonçalves IR, Brouillet S, Soulie MC, Gribaldo S, Sirven C, Charron N, Boccara M, Choquer M (2016) Genome-wide analyses of chitin synthases identify horizontal gene transfers towards bacteria and allow a robust and unifying classification into fungi. *BMC Evol Biol* 16(1):252.

R-70. Dacks JB, Field MC, Buick R, Eme L, Gribaldo S, Roger AJ, Brochier-Armanet C, and Devos D. The changing view of eukaryogenesis: fossils, cells, lineages, and how they all come together. *J Cell Sci* 2016 Sep 26. pii: jcs.178566. [Epub ahead of print]. REVIEW

A-69. Antunes LS, Poppleton D, Klingl A, Criscuolo C, Dupuy B, Brochier-Armanet C, Beloin C, and Gribaldo S (2016) Phylogenomic analysis supports the ancestral presence of LPS outer membranes in the Firmicutes. *Elife* Aug 31;5. pii: e14589.

R-68. Borrel G, Adam PS, and Gribaldo S (2016) Methanogenesis and the Wood-Ljungdahl pathway: an ancient, versatile, and fragile association. *Genome Biol Evol.* 8(6):1706-11.

A-67. Poupel O, Moyat M, Groizeleau J, Antunes LC, Gribaldo S, Msadek T, Dubrac S. (2016) Transcriptional analysis and subcellular protein localization reveal specific features of the essential WalKR system in *Staphylococcus aureus*. *PLoS One* 11(3):e0151449.

A-66. Clermont D, Gomard M, Hamon S, Bonne I, Fernandez JC, Wheeler R, Malosse C, Chamot-Rooke J, Gribaldo S, Boneca IG, Bizet C. (2016) *Paenibacillus faecis* sp.nov., isolated from human faeces. *Int J Syst Evol Microbiol.* 65(12):4621-6.

2015:

A-65. Ooi CP, Rotureau B, Gribaldo S, Georgikou C, Julkowska D, Blisnick T, Perrot S, Subota I, Bastin P. (2015) The flagellar arginine kinase in *Trypanosoma brucei* is important for infection in Tsetse flies. *PLoS One* 10(7):e0133676.

A-64. Perras A, Daum B, Ziegler C, Takahashi KL, Ahmed M, Wanner G, Klingl A, Leitinger G, Kolb-Lenz D, Gribaldo S, Auerbach A, Mora M, Probst AJ, Belloack A, Moissl-Eichinger C (2015) S-layers at second glance? Altiarchaeal grappling hooks (hami) resemble archaeal S-layer proteins in structure and sequence. *Front Microbiol* 6:543.

A-63. Raymann K, Brochier-Armanet C, Gribaldo S (2015) The two-domain tree of life is linked to a new root for the Archaea. *Proc Natl Acad Sci U S A* 112(21): 6670-5.

A-62. Groussin M, Hobbs JK, Szollosi GJ, Gribaldo S, Arcus VL, Gouy M (2015) Toward more accurate protein genotype-phenotype reconstructions with the use of species tree-aware gene trees. *Mol Biol Evol* 32(1):13-22.

2014:

A-61. Gomez-Valero L, Rusniok C, Rolando M, Neou M, Dervins-Ravault D, Demirtas J, Rouy Z, Moore RJ, Chen H, Petty NK, Jarraud S, Etienne J, Steinert M, Heuner K, Gribaldo S, Médigue C, Glöckner G, Hartland E.L and C. Buchrieser (2014) Comparative analyses of *Legionella* species identifies genetic features of strains causing Legionnaires' Disease. *Genome Biol* 15(11):505.

A-60. Probst AJ, Weinmaier T, Raymann K, Perras A, Emerson JB, Rattei T, Wanner G, Klingl A, Berg IA, Yoshinaga M, Viehweger B, Hinrichs K, Thomas BC, Meck S, Auerbach AK, Heise M, Schintlmeister A, Schmidt M, Wagner M, Gribaldo S, Banfield JF, and Moissl-Eichinger C (2014) Biology of a widespread uncultivated archaeon that contributes to carbon fixation in the subsurface. *Nat Commun* 5:5497.

A-59. Appolaire A, Asunción Durá M, Ferruit M, Andrieu JP, Godfroy A, Gribaldo S, and Franzetti B (2014)

The TET2 and TET3 aminopeptidases from *Pyrococcus horikoshii* form a hetero-subunit peptidasome with enhanced peptide destruction properties. *Mol Microbiol* 94(4):803-14.

A-58. Borrel G, Parisot N, Harris HMB, Peyretailade E, Gaci N, Tottey W, Bardot O, Raymann K, Gribaldo S, Peyret P, O'Toole PW and Brugère JF (2014) Comparative genomics highlights the unique biology of Methanomassiliicoccales, a Thermoplasmatales-related seventh order of methanogenic archaea that encodes pyrrolysine. *BMC Genomics* 15:679.

O-57. Poole AM and Gribaldo S (2014) Eukaryotic origins: when and how was the mitochondrion acquired? *Cold Spring Harbor Perspectives in Biology* 6(12):a015990.

A-56. Muszkieta L, Aïmanianda V, Mellado E, Gribaldo S, Alcàzar-Fuoli L, Szewczyk E, Prevost MC, Latgé JP. (2014) Deciphering the role of the chitin synthase families 1 and 2 in the in vivo and in vitro growth of *Aspergillus fumigatus* by multiple gene targeting deletion. *Cell Microbiol.*16(12):1784-805.

A-55. Raymann K, Forterre P, Brochier-Armanet C, Gribaldo S (2014) Global phylogenomic analysis disentangles the complex evolutionary history of DNA replication in archaea. *Genome Biol Evol.* 6(1):192-212.

A-54. Borrel G, Gaci N, Peyret P, O'Toole PW, Gribaldo S, and Brugère JF (2014) Unique Characteristics of the Pyrrolysine System in the 7th Order of Methanogens: Implications for the Evolution of a Genetic Code Expansion Cassette. *Archaea*. Article ID 374146.

2013:

A-53. Borrel G, O'Toole P, Peyret P, Brugère JF, and Gribaldo S (2013) Phylogenomic data support a seventh order of methylotrophic methanogens and provide insights into the evolution of methanogenesis. *Genome Biol Evol.* 5(10):1769-80.

A-52. Borrel G, Harris H, Parisot N, Gaci N, Tottey W, Mihajlovski A, Deane A, Gribaldo S, Bardot O, Peyretailade E, Peyret P, O'Toole P, and Brugère JF. Genome sequence of "Candidatus Methanomassiliicoccus intestinalis" Issoire-Mx1, a third Thermoplasmatales-related methanogenic archaea from human feces. (2013) *ASM Genome Announcements* 11;1(4)

A-51. Raymann K, Bobay LM, Doak TG, Lynch M, Gribaldo S (2013) A genomic survey of Reb homologs suggests widespread occurrence of R-bodies in proteobacteria. *G3 (Bethesda)* 3(3):505-16.

2012:

A-50. Borrel G, Harris HM, Tottey W, Mihajlovski A, Parisot N, Peyretailade E, Peyret P, Gribaldo S, O'Toole PW, Brugère JF (2012) Genome sequence of "Candidatus Methanomethylophilus alvus" Mx1201, a methanogenic archaeon from the human gut belonging to a seventh order of methanogens. *J Bacteriol.* 194(24):6944-5.

O-49. Gribaldo S, Brochier-Armanet C (2012) Time for order in microbial systematics. *Trends in Microbiology* 20(5):209-10 OPINION

R-48. Brochier-Armanet C, Gribaldo S, Forterre P. (2011) Evolution: Spotlight on the Thaumarchaeota. *ISME J.* 6(2):227-30

2011:

A-47. Moriscot C, Gribaldo S, Jault JM, Krupovic M, Arnaud J, Jamin M, Schoehn G, Forterre P, Weissenhorn W, Renesto P. (2011) Crenarchaeal CdvA forms double-helical filaments containing DNA and interacts with ESCRT-III-like CdvB. *PLoS One.* 6(7):e21921.

A-46. Halter D, Cordi B, Gribaldo S, Gallien S, Goulhen-Chollet F, Heinrich-Salmeron A, Carapito C, Pagnout C, Montaut D, Seby F, Van Dorsselaer A, Schaeffer C, Bertin PN, Bauda P, Arsène-Ploetze F. (2011) Taxonomic and functional prokaryote diversity in mildly arsenic contaminated sediments. *Res Microbiol.* 162(9):877-87.

A-45. Criscuolo A and Gribaldo S (2011) Large-scale phylogenomic analyses indicate a deep origin of primary plastids within Cyanobacteria. *Mol Biol Evol.* 28(11):3019-32.

E-44. Gribaldo S, Forterre P, Brochier-Armanet C. Editorial: Archaea and the tree of life. (2011) *Res Microbiol.* 162(1):1-4. EDITORIAL

R-43. Brochier-Armanet C, Forterre P, Gribaldo S (2011) Phylogeny and evolution of the Archaea: one hundred genomes later. *Curr Opin Microbiol.* 14(3):274-81.

A-42. Krupovic M, Spang A, Gribaldo S, Forterre P, Schleper C. (2011) A thaumarchaeal provirus testifies for an ancient association of tailed viruses with archaea. *Biochem Soc Trans* 39(1):82-8.

A-41. Desmond E, Brochier-Armanet C, Forterre P, and Gribaldo S (2011) On the last eukaryotic common ancestor and early eukaryotic evolution: reconstructing the history of mitochondrial ribosomes. *Res Microbiol.* 162(1):53-70.

A-40. Gastebois A, Blanc Potard A, Gribaldo S, Beau R, Latgé JP and Mouyna I. (2011) Phylogenetic and functional analysis of *Aspergillus fumigatus* MGTC, a fungal protein homologous to a bacterial virulence factor. *Appl Environ Microbiology.* 77(13):4700-3.

A-39. Gaget V, Gribaldo S, Tandeau de Marsac N. (2011) A *rpoB* signature sequence provides unique resolution for the molecular typing of cyanobacteria. *Int J Syst Evol Microbiol.* 61:170-83.

2010:

O-38. Gribaldo S, Poole AM, Daubin V, Forterre P, Brochier-Armanet C (2010) The origin of eukaryotes and their relationship with the Archaea: are we at a phylogenomic impasse? *Nat Rev Microbiol* 8(10):743-52.

A-37. Lundin D, Gribaldo S, Torrents E, Sjöberg BM, Poole AM. (2010) Ribonucleotide reduction – horizontal transfer of a required function spans all three domains. *BMC Evol Biol* 10(1):383.

A-36. Cortez D, Quevillon-Cheruel S, Gribaldo S, Desnoves N, Sezonov G, Forterre P, Serre MC. (2010) Evidence for a *Xer/dif* system for chromosome resolution in Archaea. *PLoS Genetics.* 6(10):e1001166.

A-35. Criscuolo A and Gribaldo S (2010) BMGE (Block Mapping and Gathering with Entropy): a New Software for Selection of Phylogenetic Informative Regions from Multiple Sequence Alignments. *BMC Evol Biol.* 13:10:210.

A-34. Sime-Ngando T, Lucas S, Robin A, Pause Tucker K, Colombet J, Bettarel Y, Desmond E, Gribaldo S, Forterre P, Breitbart M and Prangishvili D (2010) Diversity of virus-host systems in hypersaline Lake Retba, Senegal. *Environ Microbiol.* 13(8):1956-72

A-33. Krupovic M, Gribaldo S, Bamford DH, Forterre P. (2010) The evolutionary history of archaeal MCM helicases: a case study of vertical evolution combined with hitchhiking of mobile genetic elements. *Mol Biol Evol.* 27(12):2716-32.

A-32. Jambou R, Martinelli A, Pinto J, Gribaldo S, Legrand E, Niang M, Kim N, Pharath L, Volnay B, Ekala MT, Bouchier C, Fandeur T, Berzosa P, Benito A, Ferreira ID, Ferreira C, Vieira PP, Alecrim MG, Mercereau-Puijalon O, Cravo P. (2010) Geographic structuring of the *Plasmodium falciparum* sarco(endo)plasmic reticulum Ca²⁺ ATPase (PfSERCA) gene diversity. *PLoS One.* 25;5(2):e9424.

RH-31. Forterre P, Gribaldo S (2010) Bacteria with a eukaryotic touch: a glimpse of ancient evolution? *Proc Natl Acad Sci U S A*. 107(29):12739-40.

2009:

O-30. Gribaldo S, Brochier C (2009) Phylogeny of prokaryotes: does it exist and why should we care? *Res Microbiol*. 160 (7) :513-21.

A-29. Fondi M, Emiliani G, Liò P, Gribaldo S, and Fani R (2009) The evolution of histidine biosynthesis in Archaea: insights into the *his* genes structure and organization in LUCA. *J. Mol. Evol.* 69(5):512-26

A-28. Desmond E and Gribaldo S (2009) Phylogenomics of sterol synthesis: insights into the origin, evolution and diversity of a key eukaryotic feature. *Genome Biol Evol.* 2009:364-81.

A-27. Cortez D, Forterre P, Gribaldo S (2009) A hidden reservoir of integrative elements is the major source of recently acquired foreign genes and ORFans in archaeal and bacterial genomes. *Genome Biol.* 10(6):R65.

A-26. Gribaldo S, Talla E, Brochier-Armanet C (2009) Evolution of the haem copper oxidases superfamily: a rooting tale. *Trends Biochem Sci.* 34(8):375-81.

A-25. Emiliani G, Fondi M, Fani R, Gribaldo S (2009) A horizontal gene transfer at the origin of phenylpropanoid metabolism: a key adaptation of plants to land. *Biology Direct.* 16;4(1):7.

R-24. Forterre P, Gribaldo S, Brochier-Armanet C. (2009) Happy together: genomic insights into the unique Nanoarchaeum/Ignicoccus association. *J Biol.* 2009 8(1):7.

2008:

A-23. Brochier-Armanet C, Gribaldo S, and Forterre P (2008) A DNA Topoisomerase IB in Thaumarchaeota testifies for the presence of this enzyme in the last common ancestor of Archaea and Eucarya. *Biology Direct* 3:54.

A-22. Brochier-Armanet C, Talla E, Gribaldo S (2008) The multiple evolutionary histories of dioxygen reductases: implications for the origin and evolution of aerobic respiration. *Mol Biol Evol.* 26(2):285-97.

A-21. Frangeul L, Quillardet P, Castets AM, Humbert JF, Matthijs HC, Cortez D, Tolonen A, Zhang CC, Gribaldo S, Kehr JC, Zilliges Y, Ziemert N, Becker S, Talla E, Latifi A, Billault A, Lepelletier A, Dittmann E, Bouchier C, Tandeau de Marsac N (2008) Highly plastic genome of *Microcystis aeruginosa* PCC7806, a ubiquitous toxic freshwater cyanobacterium. *BMC Genomics* 5;9(1):274.

A-20. Brochier-Armanet C, Boussau B, Gribaldo S, Forterre P. (2008) Mesophilic Crenarchaeota: proposal for a third archaeal phylum, the Thaumarchaeota. *Nat Rev Microbiol.* 6(3):245-52.

2007:

A-19. Desmond E, Brochier-Armanet C, Gribaldo S (2007) Phylogenomics of the archaeal flagellum: rare horizontal gene transfer in a unique motility structure. *BMC Evol Biol.* 2;7:106.

A-18. Yandoko EN, Gribaldo S, Finance C, Le Faou A, Rihn BH (2007) Molecular characterization of African orthobunyaviruses. *J Gen Virol.* 88(Pt 6):1761-6.

A-17. Forterre P, Gribaldo S, Gadelle D, Serre MC (2007) Origin and evolution of DNA topoisomerases. *Biochimie.* 89(4):427-46.

R-16. Forterre P and Gribaldo S (2007) The origin of modern terrestrial life. *Human Frontiers Science Program Journal* 1; 3:156-168. REVIEW

2006:

R-15. Gribaldo S and Brochier C (2006) The origin and evolution of the Archaea: a state of the art. *Proc Royal Acad Sci.* 361(1470):1007-22.

2005:

A-14. Brochier C, Gribaldo S, Forterre P (2005) An emerging phylogenetic core of Archaea: phylogenies of transcription and translation machineries converge following addition of new genome sequences. *BMC Evolutionary Biology* 5(1):36.

A-13. Brochier C, Gribaldo S, Zivanovic Y, Confalonieri F, Forterre P (2005) Nanoarchaea: representatives of a novel archaeal phylum or a fast-evolving euryarchaeal lineage related to Thermococcales? *Genome Biol* 6(5):R42.

2004:

A-12. Brochier C, Forterre P, Gribaldo S (2004) Archaeal phylogeny based on proteins of the transcription and translation machineries: tackling the *Methanopyrus kandleri* paradox. *Genome Biol* 5(3):R17.

2003:

A-11. Armengaud J, Fernandez B, Chaumont V, Rollin-Genetet F, Finet S, Marchetti C, Myllykallio H, Vidaud C, Pellequer JL, Gribaldo S, Forterre P, Gans P (2003) Identification, purification and characterization of a eukaryotic-like phosphopantetheine adenylyltransferase (coenzyme A biosynthetic pathway) in the hyperthermophilic archaeon *Pyrococcus abyssi*. *J. Biol. Chem.* 33: 31078-31087.

A-10. Gribaldo S, Casane D, Lopez P, Philippe H (2003) Functional divergence prediction from evolutionary analysis: a case study of vertebrate haemoglobin. *Mol. Biol. Evol.* 11: 1754-1759.

O-9. Baptiste E and Gribaldo S (2003) The genome reduction hypothesis and the phylogeny of eukaryotes. *Trends in Genetics* 19: 696-700.

A-8. Philippe H, Casane D, Gribaldo S, Lopez P, Meunier J (2003) Heterotachy and functional shift in protein evolution. *IUBMB Life* 55: 257-265.

2002:

A-7. Cammarano P, Gribaldo S, and Johann A (2002) Updating carbamoylphosphate synthase (CPS) phylogenies. Occurrence and phylogenetic identity of archaeal CPS genes. *J. Mol. Evol.* 55 (2): 153-160.

R-6. Gribaldo S and H Philippe (2002) Ancient phylogenetic relationships. *Theor. Popul. Biol.* 61: 391-408.

2000:

A-5. Bocchetta M, Gribaldo S, Sanangelantoni A, and P. Cammarano (2000) Phylogenetic depth of the bacterial genera *Aquifex* and *Thermotoga* inferred from analysis of ribosomal protein, elongation factor and RNA polymerase subunit sequences. *J. Mol. Evol.* 50 (4): 366-380.

1999:

A-4. Gribaldo S, Lumia V, Creti R, Conway de Macario E, Sanangelantoni A, and P. Cammarano (1999) Discontinuous occurrence of the *hsp70(dnaK)* gene among Archaea and sequence features of Hsp70 suggests a novel outlook on the evolution of this protein. *J. Bacteriol.* 181(2): 434-443.

1998:

A-3. Gribaldo S, and P. Cammarano (1998) The root of the universal tree of life inferred from anciently duplicated genes encoding components of the protein-targeting machinery. *J. Mol. Evol.* 47(5): 508-516.

1997:

A-2. Gribaldo S, Cookson B, Saunders N, Marples R, and J. Stanley (1997) Rapid identification by specific PCR of coagulase-negative staphylococcal species important in hospital infection. *J. Med. Microbiol.* 46(1): 45-53.

1996:

A-1. Agodi A, Stefani S, Corsaro C, Campanile F, Gribaldo S and G. Sichel (1996) Study of a melanic pigment of *Proteus mirabilis*. *Res. Microbiol.* 147(3): 167-174.

BOOK CHAPTERS

Gomez-Valero L, Neou Bonora M, Gribaldo S, Buchrieser C (2013) Interdomain horizontal gene transfer shaped the genomes of *Legionella pneumophila* and *Legionella longbeachae*. In "Lateral Gene Transfer in Evolution" Ed. Springer.

Forterre P, Gribaldo S, Brochier C (2006) Natural history of the archaeal domain. In *Archaea - physiology, molecular biology and evolution*. Eds R Garrett and HP Klenk. Ed. Blackwell Publishing, Oxford.

Forterre P, Zivanovic Y, Gribaldo S (2006). Structure and evolution of archaeal genomes. In *Archaea: molecular cell biology*. Ed R Cavicchioli. Ed. AMCB press.

Gribaldo S and Forterre P (2005). Looking for "most primitive" life forms: pitfalls and progresses. In *Lectures in Astrobiology - Vol I. Part 2: From Prebiotic Chemistry to the Origin of Life on Earth*. Eds. Gargaud, M., Barbier, B., Martin, H. and Reisse, J. Ed. Springer-Verlag.

Gribaldo S and Philippe H (2004) Pitfalls in tree reconstruction and the phylogeny of eukaryotes. In *Organelles, Genomes and Eukaryote Phylogeny*. Eds RP Hirt and DS Horner. CRC press Raton FL.

SCIENCE FOR THE LARGE AUDIENCE:

Articles:

Interviewed in "Sclavi B. and Herrick J. La place des Bactéries en Evolution" (Special issue *Pour la Science*, November 2016).

Gribaldo S and Brochier-Armanet C (2013) LUCA, ancêtre de tous les êtres vivants. *Les Dossiers de La Recherche* N.2 pg 29-31.

Brochier-Armanet C, Gribaldo S (2012) Les défis de la systématique face au monde microbien. *Biofutur* (328):49-52

Gribaldo S, Forterre P, Brochier-Armanet C (2008) Les Archaea, évolution et diversité du troisième domaine du vivant. *Bulletin de La Société Française de Microbiologie* 23(3): 137-145.

Forterre P, Gribaldo S, Brochier C (2005) Luca: the last universal common ancestor *Med Sci (Paris)* 21(10):860-5.

Books:

Gribaldo S, Maurel MC, Vannier J (2007) Les Débuts de la vie. Editions Le Pommier.