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Personal

- Name: Carlos Eduardo Guerra Schrago
- Born: Rio de Janeiro, RJ, Brazil. 12 May 1979

Academic degrees

- 2004: Ph.D., Genetics. Federal University of Rio de Janeiro, Brazil.
- 2000: B.Sc., Biological Sciences. Federal University of Rio de Janeiro, Brazil

Professional experience

- 2015-date: Associate Professor of Genetics and Evolution, Federal University of Rio de Janeiro.
- 2006-2015: Assistant Professor of Genetics and Evolution, Federal University of Rio de Janeiro.
- 2012-2014: Head of the Graduate Program in Genetics, UFRJ, Brazil.
- 2006: Lecturer of Genetics and Evolution, Federal University of Rio de Janeiro.
- 2005-2006: Postdoctoral researcher, UFRJ.

Service for Journals and Funding agencies

- Associate Editor of *BMC Genomics*, 2014-2017.
- Marsden Fund Royal Society of New Zealand, 2013
- National Research Council of Brazil

Reviewer for

- Molecular Biology and Evolution
- Systematic Biology
- PLoS Neglected Tropical Diseases
- BMC Evolutionary Biology
- BMC Genomics
- Molecular Phylogenetics and Evolution
- Biology Letters
- Infection, Genetics and Evolution
- Animal Behaviour
- Gene
- Journal of Heredity
- Virology Journal
- Zoological Journal of the Linnaean Society

- Genetics and Molecular Biology

Society Membership

- Society of Systematic Biologists
- Society for Molecular Biology and Evolution

Top Publications by IF and citations

Schrigo, C.G. The effective population sizes of the anthropoid ancestors of the human-chimpanzee lineage provide insights on the historical biogeography of the great apes. *Molecular Biology and Evolution*, v. 31, p. 37-47, 2014.

Elshahawi, S. I. ; Trindade-Silva, A. E. ; Hanora, A. ; Han, A. W. ; Flores, M. ; Vizzoni, V. ; **Schrigo, C.G.** ; Concepcion, G. P. ; Soares, C. A. ; Distel, D. L. ; Schmidt, E. W. and Haygood, M.G. A boronated tartrolon antibiotic produced by symbiotic cellulose-degrading bacteria in shipworm gills. *Proceedings of the National Academy of Sciences of the United States of America*, v. 111, p. 1-10, 2013.

Fontella, R., Soares, M. A and **Schrigo, C.G.** The origin of South American HIV-1 subtype C: Lack of evidence for a Mozambican ancestry. *AIDS*, v. 23, p. 1926-1928, 2009.

Fontella, R., Soares, Marcelo A and **Schrigo, C.G.** On the origin of HIV-1 subtype C in South America. *AIDS*, v. 22, p. 2001-2011, 2008.

Schrigo, C.G. and Russo, C.A.M. Timing the origin of New World monkeys. *Molecular Biology and Evolution*, v. 20, p. 1620-1625, 2003.

CALVET, G. ; AGUIAR, R. S. ; MELO, A. S. O. ; SAMPAIO, S. A. ; FILIPPIS, I. ; FABRI, A. ; ARAUJO, E. S. ; SEQUEIRA, P. C. ; SANTOS, F. B. ; OLIVEIRA, L. ; TSCHOEKE, D. A. ; **SCHRAGO, C. G.** ; THOMPSON, F. L. ; NOGUEIRA, R. M. ; TANURI, A. ; FILIPPIS, A. M. B. . Detection and sequencing of Zika virus from amniotic fluid of fetuses with microcephaly in Brazil: a case study. *Lancet. Infectious Diseases (Print)*, p. 1-8, 2016.

SCHRAGO, C.G.. On the time scale of New World primate diversification. *American Journal of Physical Anthropology*, v. 132, p. 344-354, 2007.

SCHRAGO, C.G.; MELLO, B. ; SOARES, A. E. R. . Combining fossil and molecular data to date the diversification of New World Primates. *Journal of Evolutionary Biology (Printed ed.)*, v. 26, p. 1-9, 2013.

PERINI, F. A. ; RUSSO, C. A. M. ; **SCHRAGO, C.G.** . The evolution of South American endemic canids: A history of rapid diversification and morphological parallelism. *Journal of Evolutionary Biology*, v. 23, p. 311-322, 2010.

Complete List of Peer-reviewed Publications

2018

CAPELLAO, R. T. ; COSTA-PAIVA, E. M. ; **SCHRAGO, C.G.** . Appropriate assignment of fossil calibration information minimizes the difference between phylogenetic and pedigree mutation rates in humans. *Life*, v. 8, p. 49-60, 2018.

- SCHRAGO, C.G.**; MELLO, B. ; PEREIRA, A. G. ; FURTADO, C. ; SEUANEZ, H. N. . Impact of long-term chromosomal shuffling on the multispecies coalescent analysis of two anthropoid primate lineages. *Ecology and Evolution*, v. 8, p. 1206-1216, 2018.
- ROSSI, M. F. ; MELLO, B. ; **SCHRAGO, C.G.** . Comparative evaluation of macroevolutionary regimes of Ruminantia and selected mammalian lineages. *BIOLOGICAL JOURNAL OF THE LINNEAN SOCIETY*, p. 1-11, 2018.
- MELLO, BEATRIZ ; VILELA, JÚLIO F. ; **SCHRAGO, C. G.** . Conservation phylogenetics and computational species delimitation of Neotropical primates. *BIOLOGICAL CONSERVATION*, v. 217, p. 397-406, 2018.
- OLIVEIRA, ALBERTO ; BLEICHER, LUCAS ; **SCHRAGO, C. G.** ; SILVA JUNIOR, FLORIANO PAES . Conservation analysis and decomposition of residue correlation networks in the Phospholipase A2 superfamily (PLA2s): Insights into the structure-function relationships of snake venom toxins. *TOXICON*, v. 146, p. 1-5, 2018.
- PEREIRA, A. G. ; **SCHRAGO, C.G.** . Incomplete lineage sorting impacts the inference of macroevolutionary regimes from molecular phylogenies when concatenation is employed: An analysis based on Cetacea. *Ecology and Evolution*, p. 1-7, 2018.
- SAKURAGUI, C. M. ; CALAZANS, L. S. B. ; LOSS-OLIVEIRA, L ; MORAIS, E. B. ; BENKO-ISEPPON, A. M. ; VASCONCELOS, S. ; **SCHRAGO, C.G.** ; MAYO, S. J. . Recognition of the genus *Thaumatophyllum* Schott – formerly *Philodendron* subg. *Meconostigma* (Araceae) – based on molecular and morphological evidence. *PhytoKeys*, v. 98, p. 51-71, 2018.
- SCHRAGO, C.G.**; Aguiar, BO ; MELLO, B. . Comparative evaluation of maximum parsimony and Bayesian phylogenetic reconstruction using empirical morphological data. *JOURNAL OF EVOLUTIONARY BIOLOGY*, p. 1-6, 2018.
- HESSAB, T. ; ARANHA, R. ; MOURA-NETO, R. ; BALDING, D. ; **SCHRAGO, C.G.** . Evaluating DNA evidence in a genetically complex population. *Forensic Science International-Genetics*, p. 1-10, 2018.
- FREITAS, L. A. ; MELLO, B. ; **SCHRAGO, C.G.** . Multispecies coalescent analysis confirms standing phylogenetic instability in Hexapoda. *JOURNAL OF EVOLUTIONARY BIOLOGY*, v. 31, p. 1-7, 2018.

2017

- GUTERRES, ALEXANDRO ; DE OLIVEIRA, RENATA CARVALHO ; FERNANDES, JORLAN ; DE LEMOS, ELBA REGINA SAMPAIO ; **SCHRAGO, C.G.** . New bunya-like viruses: Highlighting their relations. *Infection, Genetics and Evolution (Print)*, v. 49, p. 164-173, 2017.
- ROSSI, M. F. ; MELLO, B. ; **SCHRAGO, C.G.** . Performance of hidden Markov models in recovering the standard classification of glycoside hydrolases. *Evolutionary Bioinformatics*, v. 13, p. 1-5, 2017.
- COSTA-PAIVA, E. M. ; WHELAN, N. V. ; WAITS, D. S. ; SANTOS, S. R. ; **SCHRAGO, C.G.** ; HALANYCH, K. . Discovery and evolution of novel hemerythrin genes in annelid worms. *BMC Evolutionary Biology (Online)*, v. 17, p. 85, 2017.
- PEREIRA, A. G. ; **SCHRAGO, C.G.** . Arrival and diversification of mabuyine skinks (Squamata: Scincidae) in the Neotropics based on a fossil-calibrated timetree. *PeerJ*, v. 5, p. e3194, 2017.
- PEREIRA, A. G. ; STERLI, J. ; MOREIRA, F. R. R. ; **SCHRAGO, C.G.** . Multilocus phylogeny and statistical biogeography clarify the evolutionary history of major lineages of turtles. *MOLECULAR PHYLOGENETICS AND EVOLUTION*, v. 112, p. 1-10, 2017.
- HAMDAN, B. ; PEREIRA, A. G. ; LOSS-OLIVEIRA, L ; RODDER, D. ; **SCHRAGO, C.G.** . Evolutionary analysis of *Chironius* snakes unveils cryptic diversity and provides clues to diversification in the Neotropics. *MOLECULAR PHYLOGENETICS AND EVOLUTION*, p. 1-6, 2017.

COSTA-PAIVA, E. M. ; **SCHRAGO, C.G.** ; HALANYCH, K. . Broad phylogenetic occurrence of the oxygen-binding hemerythrins in bilaterians. *Genome Biology and Evolution*, v. 9, p. 1-5, 2017.

GUTERRES, ALEXANDRO ; DE OLIVEIRA, RENATA CARVALHO ; FERNANDES, JORLAN ; MAIA, RENATA MALACHINI ; TEIXEIRA, BERNARDO RODRIGUES ; OLIVEIRA, FLÁVIO CÉSAR GOMES ; BONVICINO, CIBELE RODRIGUES ; D'ANDREA, PAULO SERGIO ; **SCHRAGO, C. G.** ; DE LEMOS, ELBA REGINA SAMPAIO . Co-circulation of Araraquara and Juquitiba Hantavirus in Brazilian Cerrado. *MICROBIAL ECOLOGY*, v. 74, p. 1-7, 2017.

2016

LOSS-OLIVEIRA, L ; SAKURAGUI, C. M. ; SOARES, M. L. ; **SCHRAGO, C. G.** . Evolution of (Araceae) species in Neotropical biomes. *PEERJ*, v. 4, p. e1744, 2016.

CALVET, G. ; AGUIAR, R. S. ; MELO, A. S. O. ; SAMPAIO, S. A. ; FILIPPIS, I. ; FABRI, A. ; ARAUJO, E. S. ; SEQUEIRA, P. C. ; SANTOS, F. B. ; OLIVEIRA, L. ; TSCHOEKE, D. A. ; **SCHRAGO, C. G.** ; THOMPSON, F. L. ; NOGUEIRA, R. M. ; TANURI, A. ; FILIPPIS, A. M. B. . Detection and sequencing of Zika virus from amniotic fluid of fetuses with microcephaly in Brazil: a case study. *Lancet. Infectious Diseases (Print)*, p. 1-8, 2016.

JUSTI, S. A. ; GALVAO, C. ; SCHRAGO, C.G. . Geological Changes of the Americas and their Influence on the Diversification of the Neotropical Kissing Bugs (Hemiptera: Reduviidae: Triatominae). *PLoS Neglected Tropical Diseases (Online)*, v. 10, p. e0004527, 2016.

2015

FERNANDES, N. M. ; DIAS, R. J. P. ; **SCHRAGO, C.G.** ; SILVA-NETO, I. D. . Redescription and Phylogenetic Position of Spiegel, 1926 (Ciliophora, Heterotrichea) from Guanabara Bay, Brazil. *The Journal of Eukaryotic Microbiology*, p. n/a-n/a, 2015.

DA SILVA, ANNA KAROLINE FAUSTO ; ROMANEL, ELISSON ; SILVA, TATIANE DA F. ; CASTILHOS, YAMÁ ; **SCHRAGO, C. G.** ; GALBIERI, RAFAEL ; BÉLOT, JEAN-LOUIS ; VASLIN, MAITE F. S. . Complete genome sequences of two new virus isolates associated with cotton blue disease resistance breaking in Brazil. *Archives of Virology*, v. 160, p. 1-4, 2015.

KRSTICEVIC, F. ; **SCHRAGO, C.G.** ; CARVALHO, A. B. . Long-Read Single Molecule Sequencing to Resolve Tandem Gene Copies: The Mst77Y Region on the *Drosophila melanogaster* Y Chromosome. *G3: Genes, Genomes, Genetics (Bethesda)*, v. 5, p. 1145-1150, 2015.

TRONCOSO, LIAN ; MUNIZ, CLÁUDIA ; SIQUEIRA, JULIANA ; CURTY, GISLAINE ; **SCHRAGO, C. G.** ; AUGUSTO, ANDERSON ; FEDULLO, LUIZ ; SOARES, MARCELO ; SANTOS, ANDRÉ . Characterization and comparative analysis of a simian foamy virus complete genome isolated from Brazilian capuchin monkeys. *Virus Research (Print)*, v. 205, p. 1-6, 2015.

FREITAS, L. A. ; RUSSO, C. A. M. ; VOLOCH, C. M. ; MUTAQUIHA, O. C. F. ; MARQUES, L. P. ; **SCHRAGO, C.G.** . Diversification of the Genus *Anopheles* and a Neotropical Clade from the Late Cretaceous. *Plos One*, v. 10, p. e0134462, 2015.

GUTERRES, ALEXANDRO ; OLIVEIRA, RENATA CARVALHO DE ; FERNANDES, JORLAN ; **SCHRAGO, C. G.** ; LEMOS, ELBA REGINA SAMPAIO DE . Detection of different South American Hantaviruses. *Virus Research (Print)*, v. 210, p. 1-5, 2015.

FERNANDES, N. M. ; PAIVA, T. S. ; SILVA-NETO, I. D. ; SCHLEGEL, M. ; **SCHRAGO, C.G.** . Expanded phylogenetic analyses of the class Heterotrichea (Ciliophora, Postciliodesmatophora) using five molecular markers and morphological data. *Molecular Phylogenetics and Evolution (Print)*, p. 1-18, 2015.

2014

- SCHRAGO, C. G.** . The effective population sizes of the anthropoid ancestors of the human-chimpanzee lineage provide insights on the historical biogeography of the great apes. *Molecular Biology and Evolution*, v. 31, p. 37-47, 2013.
- SCHRAGO, C.G.** and Voloch, C. M. Performance of genomic data sets on the estimation of the divergence time of New World and Old World anthropoids. *Genetics and Molecular Research*, v. 13, p. 1425-1437, 2014.
- GUTERRES, A. ; DE OLIVEIRA, RENATA CARVALHO ; FERNANDES, J. ; STRECHT, L. ; CASADO, F. ; OLIVEIRA, F. C. ; DANDREA, P. S. ; BONVICINO, C. R. ; **SCHRAGO, C.G.** ; LEMOS, E. R. S. . Characterization of Juquitiba Virus in *Oligoryzomys fornesi* from Brazilian Cerrado. *Viruses*, v. 6, p. 1473-1482, 2014.
- FERNANDES, N. M. ; SILVA-NETO, I. D. ; **SCHRAGO, C.G.** . Morphology and Phylogenetic Position of an Unusual *Stentor polymorphus* (Ciliophora: Heterotrichea) Without Symbiotic Algae. *The Journal of Eukaryotic Microbiology*, v. 61, p. 1-10, 2014.
- LOSS-OLIVEIRA, L ; CALAZANS, L. S. B. ; MORAIS, E. B. ; MAYO, S. J. ; **SCHRAGO, C.G.** ; SAKURAGUI, C. M. . Floral Evolution of *Philodendron* Subgenus *Meconostigma* (Araceae). *Plos One*, v. 9, p. e89701, 2014.
- MELLO, B. ; **SCHRAGO, C.G.** . Assignment of Calibration Information to Deeper Phylogenetic Nodes is More Effective in Obtaining Precise and Accurate Divergence Time Estimates. *Evolutionary Bioinformatics Online*, v. 10, p. 79, 2014.
- SCHRAGO, C.G.** . The limiting distribution of the effective population size of the ancestor of humans and chimpanzees. *Journal of Theoretical Biology*, v. 356, p. 1-10, 2014.
- SCHRAGO, C.G.** . Estimation of the ancestral effective population sizes of African great apes under different selection regimes. *Genetica (Dordrecht. Online)*, v. 142, p. 1-7, 2014.

2013

- SCHRAGO, C.G.** ; VOLOCH, C. M. . The precision of the hominid timescale estimated by relaxed clock methods. *Journal of Evolutionary Biology (Printed ed.)*, v. 26, p. 746-755, 2013.
- Elshahawi, S. I. ; TRINDADE-SILVA, A. E. ; HANORA, A. ; HAN, A. W. ; FLORES, M. ; VIZZONI, V. ; **SCHRAGO, C.G.** ; CONCEPCION, G. P. ; SOARES, C. A. ; DISTEL, D. L. ; SCHMIDT, E. W. ; HAYGOOD, M. G. . A boronated tetracycline antibiotic produced by symbiotic cellulose-degrading bacteria in shipworm gills. *Proceedings of the National Academy of Sciences of the United States of America*, v. 111, p. 1-10, 2013.
- VOLOCH, C. M. ; VILELA, J. F. ; LOSS-OLIVEIRA, L ; **SCHRAGO, C.G.** . Phylogeny and chronology of the major lineages of New World hystricognath rodents: insights on the biogeography of the Eocene/Oligocene arrival of mammals in South America. *BMC Research Notes*, v. 6, p. 160, 2013.
- MENEZES, A. N. ; VIANA, M. C. ; FURTADO, C. ; **SCHRAGO, C. G.** ; SEUANEZ, H. N. . Positive Selection along the evolution of Primate Mitogenomes. *Mitochondrion (Amsterdam. Print)*, v. 13, p. 01-10, 2013.
- GUTERRES, ALEXANDRO ; DE OLIVEIRA, RENATA CARVALHO ; FERNANDES, JORLAN ; D'ANDREA, PAULO SÉRGIO ; BONVICINO, CIBELE R. ; BRAGAGNOLO, CAMILA ; GUIMARÃES, GUSTAVO DUCCOFF ; ALMADA, GILTON LUIZ ; MACHADO, ROSANGELA ROSA ; LAVOCAT, MARÍLIA ; ELKHOURY, MAURO DA ROSA ; **SCHRAGO, C. G.** ; DE LEMOS, ELBA REGINA SAMPAIO . Phylogenetic Analysis of the S segment from Juquitiba hantavirus: Identification of two distinct lineages in *Oligoryzomys nigripes*. *Infection, Genetics and Evolution (Print)*, v. 18, p. 01-10, 2013.

Aguiar, BO ; **SCHRAGO, C. G.** . Conventional simulation of biological sequences leads to a biased assessment of multi-loci phylogenetic analysis. *Evolutionary Bioinformatics Online*, v. 9, p. 317-325, 2013.

SCHRAGO, C.G. ; MELLO, B. ; SOARES, A. E. R. . Combining fossil and molecular data to date the diversification of New World Primates. *Journal of Evolutionary Biology (Printed ed.)*, v. 26, p. 1-9, 2013.

VILELA, J. F. ; MELLO, B. ; VOLOCH, C. M. ; **SCHRAGO, C.G.** . Sigmodontine rodents diversified in South America prior to the complete rise of the Panamanian Isthmus. *Journal of Zoological Systematics and Evolutionary Research*, v. 52, p. n/a-n/a, 2013.

2012

OLIVEIRA, R. C. ; GUTERRES, A. ; **SCHRAGO, C.G.** ; FERNANDES, J. ; TEIXEIRA, B. R. ; ZECCER, S. ; BONVICINO, C. R. ; DANDREA, P. S. ; LEMOS, E. R. S. . First record of *Akodon paranaensis* naturally infected with Jabora virus strain (Hantavirus) in Brazil. *Memórias do Instituto Oswaldo Cruz (Impresso)*, v. 107, p. 424-428, 2012.

MELLO, B. ; **SCHRAGO, C.G.** . Incorrect handling of calibration information in divergence time inference: An example from volcanic islands. *Ecology and Evolution*, v. 2, p. ece3.94, 2012.

COSTA, R. L. ; VOLOCH, C. M. ; **SCHRAGO, C.G.** . Comparative evolutionary epidemiology of dengue virus serotypes. *Infection, Genetics and Evolution (Print)*, v. 12, p. 309-314, 2012.

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ROMANEL, E. ; SOUSA, T. M. ; CORREA, R. L. ; FARINELLI, L. ; HAWKINS, J. S. ; **SCHRAGO, C.G.** ; VASLIN, M.F.S. . Global alteration of microRNAs and transposon-derived small RNAs in cotton (*Gossypium hirsutum*) during Cotton leafroll dwarf polerovirus (CLRVD) infection. *Plant Molecular Biology*, v. 80, p. 443-460, 2012.

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2011

ZALONA, A. C. J. ; LOPES, G. S. ; **SCHRAGO, C.G.** ; GONCALVES, R. T. ; ZALIS, M. G. ; VARELLA, R. B. . Molecular characterization of BK polyomavirus subtypes in renal transplant recipients in Brazil. *Journal of Medical Virology (Print)*, v. 83, p. 1401-1405, 2011.

SILVA, T. F. ; ROMANEL, E. ; ANDRADE, R. R. S. ; FARINELLI, L. ; DELUEN, C. ; CORREA, R. L. ; **SCHRAGO, C.G.** ; VASLIN, M.F.S. . Profile of small interfering RNAs from cotton plants infected with the polerovirus Cotton leafroll dwarf virus. *BMC Molecular Biology*, v. 12, p. 40, 2011.

BELLO, G. ; SOARES, M. A. ; **SCHRAGO, C.G.** . The use of bioinformatics for studying HIV evolutionary and epidemiological history in South America. *AIDS Research and Treatment*, v. 2011, p. 154945, 2011.

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2010

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Boldt, Angelica B.W. ; de Messias-Reason, Iara J. ; Meyer, Diogo ; **SCHRAGO, C.G.** ; Lang, Florian ; Lell, Bertrand ; Dietz, Klaus ; Kremsner, Peter G. ; Petzl-Erler, Maria Luiza ; Kun, Jürgen F. J. . Phylogenetic nomenclature and evolution of mannose-binding lectin (MBL2) haplotypes). *BMC Genetics (Online)*, v. 11, p. 38, 2010.

2009

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2008

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Corrêa, Luiz Gustavo Guedes ; Riaño-Pachón, Diego Mauricio ; **SCHRAGO, C.G.** ; Vicentini dos Santos, Renato ; Mueller-Roeber, Bernd ; Vincentz, Michel . The Role of bZIP Transcription Factors in Green

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2007

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2003-2006

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