

Marcelo Coelho Miguel Gehara

Postdoctoral researcher at the American Museum of Natural History  
Herpetology Department

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## HIGHEST DEGREE EARNED

Ph.D.

## AREA OF SPECIALIZATION

Population Genetics, Bioinformatics, Phylogeography, Phylogenetics, Taxonomy, Herpetology

## EDUCATION

Ph.D. in Natural Sciences, Technical University of Braunschweig, Germany, 2013

M.S. in Zoology, Pontificia Universidade Católica do Rio Grande do Sul, PUC RS, Porto Alegre, Brazil, 2009

B.S. in Biological Sciences, Universidade Federal de Juiz de Fora, UFJF, Juiz De Fora, Brazil, 2005

## PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION

Postdoctoral Fellow, Universidade Federal do Rio Grande do Norte –UFRN, Brazil 2013-2015

## FACULTY APPOINTMENTS

Adjunct Faculty, Graduate Course for Evolution and Systematics, Universidade Federal do Rio Grande do Norte, UFRN, Brazil, 2013-2015

## IDIOMES

Portuguese: Understands, Reads, Speaks, Writes (native)

English: Understands, Reads, Speaks, Writes (fluent)

Spanish: Understands, Reads, Speaks (basic)

German: Understands, Reads, Speaks (basic)

## CITATION INDEXES FROM GOOGLE SCHOLAR

Citations: 325

H-index: 9

i10-index: 9

## ARTICLE IN REFEREED JOURNALS

Google Scholar: <https://tinyurl.com/y6umgnrj>

**Total number of articles: 23**

1. Phylogeography of Muller's termite frog suggests the vicariant role of the Central Brazilian Plateau  
EF Oliveira, **M Gehara**, VA São-Pedro, GC Costa, FT Burbrink, GR Colli, MT Rodrigues, AA Garda,  
*Journal of Biogeography*, *in press*, doi.org/10.1111/jbi.13427, **2018**
2. The evolutionary history of *Lygodactylus* lizards in the South American open diagonal.  
FM Lanna, FP Werneck, **M Gehara**, EM Fonseca, GR Colli, JW Sites, MT Rodrigues, AA Garda.  
*Molecular Phylogenetics and Evolution*, 127, 638-645, **2018**

3. Diversification with gene flow and niche divergence in a lizard species along the South American “diagonal of open formations”.  
EM Fonseca, **M Gehara**, FP Werneck, FM Lanna, GR Colli, JW Sites Jr, MT Rodrigues, AA Garda. *Journal of Biogeography*, 45, 1688–1700, **2018**
4. The biogeography of deep time phylogenetic reticulation.  
FT Burbrink, **M Gehara**. *Systematic biology*, 67, 743–744, **2018**
5. Climatic suitability, isolation by distance and river resistance explain genetic variation in a Brazilian whiptail lizard.  
EF Oliveira, PA Martinez, VA São-Pedro, **M Gehara**, FT Burbrink, DO Mesquita, AA Garda, GR Colli, GC Costa. *Heredity*, 120:251–265, **2018**
6. Estimating synchronous demographic changes across populations using hABC, and its application for a herpetological community from Northeastern Brazil.  
**M Gehara**, AA Garda, FP Werneck, EF Oliveira, EM da Fonseca, F Camurugi, FM de Magalhães, FM Lanna, JW Sites, R Marques, R Silveira-Filho, VA São Pedro, GR Colli, GC Costa, FT Burbrink. *Molecular Ecology* 26, 4756–4771, **2017**
7. Model-based analyses reveal insular population diversification and cryptic frog species in the *Ischnocnema parva* complex in the Atlantic forest of Brazil.  
**M Gehara**, A Barth, EF de Oliveira, MA Costa, CFB Haddad, M Vences. *Molecular Phylogenetics and Evolution* 112, 68–78, **2017**
8. Integration of molecular, bioacoustical and morphological data reveals two new cryptic species of *Pelodytes* (Anura, Pelodytidae) from the Iberian Peninsula.  
J Díaz-Rodríguez, **M Gehara**, R Márquez, M Vences, H Gonçalves, F Sequeira, I Martínez-Solano, M Tejado. *Zootaxa* 4243 (1), 001–041, **2017**
9. Ancient female philopatry, asymmetric male gene flow, and synchronous population expansion support the influence of climatic oscillations on the evolution of South American sea lion (*Otaria flavescens*).  
LR de Oliveira, **MCM Gehara**, LD Fraga, F Lopes, JI Túnez, MH Cassini, P Majluf, S Cárdenas-Alayza, HJ Pavés, EA Crespo, N García, RL de Castro, AR Hoelzel, M Sepúlveda, C Olavarría, VH Valiati, R Quiñones, MJ Pérez-Alvarez, PH Ott, SL Bonatto. *PloS one* 12 (6), e0179442, **2017**
10. Multilocus Phylogeography of the Treefrog *Scinax eurydice* (Anura, Hylidae) Reveals a Plio-Pleistocene Diversification in the Atlantic Forest.  
L Menezes, C Canedo, H Batalha-Filho, AA Garda, **M Gehara**, MF Napoli. *PloS one* 11 (6), e0154626, **2016**
11. Speciation with gene flow in whiptail lizards from a Neotropical xeric biome.  
EF Oliveira, **M Gehara**, VA São-Pedro, X Chen, EA Myers, FT Burbrink, DO Mesquita, AA Garda, GR Colli, MT Rodrigues, FJ Arias, H Zaher, RML Santos, GC Costa. *Molecular Ecology*. v.24, Issue 23, **2015**

- 12.** Genetic divergence in tropical anurans: deeper phylogeographic structure in forest specialists and in topographically complex regions.  
A Rodríguez, M Börner, M Pabijan, **M Gehara**, CFB Haddad, M Vences. *Evolutionary Ecology* 29 (5), 765-785, **2015**
- 13.** Distinct patterns of desynchronized limb regression in Malagasy scincine lizards (Squamata, Scincidae).  
A Miralles, CA Hipsley, J Erens, **M Gehara**, A Rakotoarison, F Glaw, J Müller, M Vences. *PloS one* 10 (6), e0126074, **2015**
- 14.** High Levels of Diversity Uncovered in a Widespread Nominal Taxon: Continental Phylogeography of the Neotropical Tree Frog *Dendropsophus minutus*.  
**M Gehara**, AJ Crawford, VGD Orrico, A Rodríguez, S Lötters, A Fouquet, LS Barrientos, F Brusquetti, I De La Riva, R Ernst, GG Urrutia, F Glaw, JM Guayasamin, M Hölting, M Jansen, PJR Kok, A Kwet, R Lingnau, M Lyra, J Moravec, J Pombal Jr., FJM Rojas-Runjaic, A Schulze, JC Señaris, M Solé, et al. *Plos One*, v. 9, p. e103958, **2014**
- 15.** Nuclear and mitochondrial multilocus phylogeny and survey of alkaloid content in true salamanders of the genus *Salamandra* (Salamandridae).  
M Vences, E Sanchez, JS Hauswaldt, D Eikelmann, A Rodríguez, S Carranza, D Donaire, **M Gehara**, V Helfer, S Lötters, P Werner, S Schulz, S Steinfartz. *Molecular Phylogenetics and Evolution* (Print), p. 208-216, **2014**
- 16.** From species divergence to population structure: A multimarker approach on the most basal lineage of Salamandridae, the spectacled salamanders (genus *Salamandrina*) from Italy.  
JS Hauswaldt, C Angelini, **M Gehara**, E Benavides, A Polok, S Steinfartz. *Molecular Phylogenetics and Evolution* (Print), v. 70, p. 1-12, **2014**
- 17.** From widespread to microendemic: molecular and acoustic analyses show that *Ischnocnema guentheri* (Amphibia: Brachycephalidae) is endemic to Rio de Janeiro, Brazil.  
**M Gehara**, CC Canedo, CFB Haddad, M Vences. *Conservation Genetics*, p. 973-982, **2013**
- 18.** Population expansion, isolation and selection: novel insights on the evolution of color diversity in the strawberry poison frog.  
**M Gehara**, K Summers, JL Brown. *Evolutionary Ecology*, v. 27, p. 797-824, **2013**
- 19.** Northern origin and diversification in the central lowlands? - Complex phylogeography and taxonomy of widespread day geckos (*Phelsuma*) from Madagascar.  
P-S Gehring, F Glaw, **M Gehara**, FM Ratsavina, M Vences. *Organisms Diversity & Evolution* (Print), v. 13, p. 605-620, **2013**

- 20.** Radically different phylogeographies and patterns of genetic variation in two European brown frogs, genus *Rana*.  
M Vences, JS Hauswaldt, S Steifartz, O Rupp, A Goesmann, S Künzel, P Orozco-Terwengel, DR Vieites, S Nieto-Roman, S Haas, C Laugsch, **M Gehara**, S Bruchmann, M Pabijan, A Ludewig, D Rudert, C Angelini, JL Borkin, P Crochet, A Crottini, A Dubois, GF Ficetola, P Galan, P Geniez, M Hachtel, et al. *Molecular Phylogenetics and Evolution* (Print), v. 68, p. 657-670, **2013**
- 21.** Genetic diversity, phylogeny and evolution of alkaloid sequestering in Cuban miniaturized frogs of the *Eleutherodactylus limbatus* group.  
A Rodríguez, D Poth, S Schultz, **M Gehara**, M Vences. *Molecular Phylogenetics and Evolution* (Print), v. 68, p. 541-554, **2013**
- 22.** Predation on *Sibynomorphus newwiedi* (Serpentes: Dipsadidae) by *Leptodactylus labyrinthicus* (Anura: Leptodactylidae) in southeastern Brazil.  
M Fonseca, , RMH Carvalho, F Lanna, **M Gehara**. *Herpetology Notes*, v. 5, p. 167-168, **2012**
- 23.** Conhecimento popular de moradores do entorno do parque estadual do Ibitipoca (MG, Brazil) sobre o Gênero *Mazama* Rafinesque, 1817 (Cervidae).  
**MCM Gehara**, GC Ribeiro, EL Bisaggio, A Andriolo. *Sitientibus. Série Ciências Biológicas*, v. 9, p. 122-128, **2009**

#### SCIENTIFIC JOURNAL COVERS

*Systematic Biology* Volume 67, Issue 5, September 2018

#### GRANTS

Species richness and genetic diversity of the herpetofauna from the region of the Paranapanema river, Sao Paulo, Brazil. Vinicius A. Sao Pedro (PI: UFSC), Eliana F. de Oliveira (Co-PI: UFMT); Celio F.B. Haddad (Co-PI: UNESP); Marcelo Gehara (Co-PI). São Paulo Research Foundation. **In Review**

História da Herpetofauna das Formações Abertas da América do Sul: Evidências de filogeografia comparada e sequenciamento de nova geração. Adrian A. Garda (PI); Guarino R. Colli (Co-PI); Fernanda P. Werneck (Co-PI); Frank T. Burbrink (Co-PI); Marcelo Gehara (Co-PI); Sarah M. Barros; (Co-PI); Ricardo Rodrigues (Co-PI); Felipe M. Magalhães (PhD student); Felipe Camurugi (PhD student); Emanuel M. da Fonseca (PhD student); Flávia M. Lanna (PhD student); Ricardo Marques (PhD student). CNPq/Universal 2016: 431433/2016-0. **Funded 2016-present**

Towards understanding diversification on the Seasonally Dry Tropical Forest. Marcelo Gehara (PI: UFRN); Adrian A. Garda (PI: UFRN); Gabriel C. Costa (Co-Pi: UFRN); Eliana F. Oliveira (Co-PI: UFRN); Fernanda P. Werneck (Co-PI: INPA); Vinisions A. Sao Pedro (Co-PI: UFRN); Frank T. Burbrink (Co-PI: CUNY). Young Talent Researcher Grant (BJT), Science Without Borders Program, CAPES. **Funded 2013-2015**.

**AWARDS**

Section award at XII Seminário de Iniciação científica da UFJF: (Oral presentation) Conhecimento popular no estudo de Cervídeos do Parque Estadual do Ibitipoca e no seu entorno, MG. 2006. In: XII Seminário de Iniciação científica da UFJF, Brazil.

**FIELD RESEARCH**

2010 Atlantic Forest, Brazil  
2011 Atlantic Forest, Brazil  
2012 Cerrado, Brazil  
2013 Atlantic Forest, Brazil  
2014 Caatinga, Brazil

**TEACHING EXPERIENCE**

2002 – 2003 Teaching Science and Zoology, integrating schools and UFJF Zoology department

Lectures for the Graduate Program on Evolution and Systematics, UFRN

2013 – 2014 Molecular Phylogenetics

2013 – 2015 Population Genetics and Phylogeography

**FELLOW MENTORING****Undergraduate students**

*Department of Zoology, Universidade Federal do Rio Grande do Norte - UFRN, Brazil*

Jessica Coelho 2013 – 2014 (Principal advisor)

**Master Students**

*Graduate program in Ecology, Universidade Federal do Rio Grande do Norte - UFRN, Brazil*

Emanuel Masieiro da Fonseca 2014 – 2016 (coadvisor)

Flavia Mol Lanna 2014 – 2015 (coadvisor)

**Ph.D Students**

*Graduate Program in Ecology, Universidade Estadual Santa Cruz - UESC, Bahia, Brazil*

Francisco Fonseca Ribeiro de Oliveira 2014 – present (coadvisor)

*Graduate Program in Zoology, Universidade Federal da Paraíba - UFPB, Brazil*

Felipe Camurugi 2014 – Present (coadvisor)

Felipe M. de Magalhaes 2017 – Present (coadvisor)

**COMMITTEES***Masters Defense*

2015 Institution: *Universidade Federal do Pará - UFPA, Brasil.*

Graduate Program in Zoology

Dissertation: *Filogeografia Multi-Locus de Kentropyx calcarata Spix 1825 (Reptilia: Teiidae) na Amazônia Oriental.*

Candidate: Áurea Aguiar Cronemberger

Advisor: Dra. Teresa Cristina Sauer de Ávila Pires

Cometee: Dr. Péricles Sena do Rêgo (UFPA), Dra. Lilian Giugliano (UNB), Dr. Fernando

Mendonça d'Horta (INPA), Dr. Marcelo Gehara (UFRN)

2014 Institution: *Universidade Federal do Pará - UFPA, Brasil.*

Graduate Program in Zoology

Dissertation: *Filogeografia de Gonatodes humeralis (Reptilia: Sphaerodactylidae) no baixo curso dos rios Amazonas e Tocantins*

Candidate: Geraldo Rodrigues de Lima Filho

Advisor: Dra. Teresa Cristina Sauer de Ávila Pires

Cometee: Dra. Maria Iracilda da Cunha Sampaio (UFPA), Dr. Péricles Sena do Rêgo (UFPA), Dra. Fernanda de Pinho Werneck (INPA), Dra. Ana Carolina Oliveira de Queiroz Carnaval (CUNY), Dr. Marcelo Gehara (UFRN).

## *Masters Qualifying Exam*

- 2014 Institution: *Universidade Federal do Rio Grande do Norte – UFRN, Brasil*  
Graduate Program on Evolution and Systematics  
Dissertation: *Relação entre a divergência de nicho e as características fenotípicas de Canídeos da América do Sul.*  
Candidate: Juan Pablo Zurano  
Advisor: Dr. Gabriel C. Costa  
Cometee: Dr. Carlos R. Fonseca, Dr. Marcelo Gehara
- 2013 Institution: *Universidade Federal do Rio Grande do Norte – UFRN, Brasil*  
Graduate Program on Evolution and Systematics  
Title: *Sistemática integrativa de dois ciclídeos (Perciformes: Cichlidae) do Nordeste do Brasil*  
Candidate: Waldir Miron Berbel Filho  
Advisor: Dr. Sérgio Maia Queiroz Lima.  
Cometee: Dr. Gabriel C. Costa, Dr. Marcelo Gehara

## *PhD Qualifying Exam*

- 2014 Institution: *Universidade Federal da Paraíba - UFP*  
Thesis: *Sistemática e Biogeografia das Espécies de Proceratophrys do Complexo P. cristiceps (Amphibia, Anura, Odontophrynidae).*  
Candidate: Sarah Mangia Barros  
Advisor: Dr. Adrian Garda  
Cometee Members: Dr. Marcelo Gehara, Dr. Márcio Bernardino da Silva.
- 2014 Institution: *Universidade Federal da Paraíba – UFP*  
Thesis: *Filogeografia de Philodryas nattereri Steindachner, 1870 (Squamata, Colubridae)*  
Candidate: Ricardo Rodrigues da Silveira Filho  
Advisor: Dr. Adrian Garda  
Co-advisor: Dr. Gustavo Henrique Calazans Vieira  
Cometee Members: Dr. Marcelo Gehara, Dr. Márcio Bernardino da Silva.

## **AD HOC REFEREE**

Systematic Biology, Molecular Ecology, Molecular Phylogenetics and Evolution, Zookeys, PlosOne, Journal of Herpetology, Journal of Biogeography, Anais da Academia Brasileira de Ciências, Scientific Reports, Biotropica, BMC Evolutionary Biology, Zootaxa, Herpetology Notes, Herpetologica

## **SCIENTIFIC EDITORIAL BOARD**

Associated Editor of CheckList (<https://biotaxa.org/CL>)  
Area: Herpetology