

SYMPOSIUM 2: NEOTROPICAL DIVERSITY DYNAMICS: COMBINING PHYLOGEOGRAPHY, PALEOECOLOGY AND ECO-PHYSIOLOGY

Bonito, 19th June 2012 (Tuesday)

Craig Moritz (UC-Berkeley, USA)

Ana Carnaval (City University of New York, USA)

Integration of paleoecological and phylogeographic perspectives are generating new insights into responses of species to late Quaternary climate change and how this has shaped current patterns of diversity. These studies also point to considerable heterogeneity in response among species and biomes, which presumably relate to differences in eco-physiological limits of species. These, in turn should inform projections of response to future climate change in now heavily modified landscapes. This symposium explores the developing connections across ecophysiology, paleoecology and phylogeography with emphasis on eastern Brazil, especially the Cerrado and Atlantic forest and connection to Amazonia.

TALKS (Room Guaicurus, 14h00-18h00)

14h00-14h15 (S02.OC.01) **Slowly but surely, paleoecologists and phylogeographers integrate fossil, climate, and genetic data to understand diversity in the Atlantic forest hotspot.** *Ana Carnaval*

14h15-14h30 (S02.OC.02) **Last glacial and holocene Atlantic and Amazon rainforest dynamics.** *Luiz Carlos Pessenda*

14h30-14h45 (S02.OC.03) **Climatic stability in the Brazilian Cerrado: implications for biogeographical connections of South American savannas, species richness and conservation in a biodiversity hotspot.** *Gabriel Costa*

14h45-15h00 (S02.OC.04) **Connections between the Atlantic and the Amazonian forest avifaunas represent distinct historical events.** *Henrique Batalha Filho*

15h00-15h15 (S02.OC.05) **Historical biogeography of the antbirds (Thamnophilidae): investigating the splendid isolation of South America.** *Ricardo Belmonte-Lopes*

15h15-15h30 (S02.OC.06) **Phylogeography of an Atlantic forest montane bird: genetic structure and population expansion.** *Tiago da Silva Ribeiro*

Coffee Break

16h30-16h45 (S02.OC.07) **Atlantic forest plant phylogeography.** *Loreta Freitas*

16h45-17h00 (S02.OC.08) **Narrow endemism in the central corridor of the Atlantic forest.** *Craig Moritz*

17h00-17h15 (S02.OC.09) **Adjustments of physiology on long and short timescales: implications for species distribution.** *Carlos Navas*

17h15-17h30 (S02.OC.10) **Integrating physiology, modeling and phylogeography of Atlantic forest lizards at multiple scales.** *Roberta Damasceno.*

17h30-17h45 (S02.OC.11) **Mechanistic model linking niche theory, community ecology and biogeographical patterns in tropical ecosystems.** *Juliano Sarmiento Cabral*

17h45-18h00 (S02.OC.12) **Climate change and temperature tolerance in endemic Hawaiian picture-winged *Drosophila* on the slopes of Mauna Loa volcano, Hawaii island.** *Donald Price*

POSTERS (Karuha Space, 15h30-16h30)

S02.P.01. **Phylogeographic structure of *Leptolobium dasycarpum* (Leguminosae, Papilionoideae) in the Brazilian Cerrado.** *Wellington Santos Fava*

S02.P.02. **Transferability of nuclear and chloroplast microsatellite markers for conservation genetic studies of the inselberg bromeliad species *Vriesea botafogensis* Mez.** *Fabiano Salgueiro*

S02.P.03. **Drivers of diversity per genus in South-American crickets (Orthoptera: Grylloidea).** *Carlos Sperber*

S02.P.04. **Study of the critical temperature maximum in arthropods biomes.** *Antonio Carlos da Silva*

S02.P.05. **Phylogeographic study of *Araneus guttatus* and *A. omnicolor* (Araneae: Araneidae).** *Vera Nisaka Solferini*

S02.P.06. **Testing ecological niche models to predict the anuran species occurrence in fragmented landscape.** *Mario Sacramento*