

James Edward Richardson  
Natural History of Tropical Plants Research Group  
Faculty of Natural Sciences  
Email: jamese.richardson@urosario.edu.co

## Employment

### Natural History of Tropical Plants Research Group

Universidad del Rosario  
Colombia  
Oct 1 2015 → present

### Faculty of Natural Sciences

Universidad del Rosario  
Colombia  
Jul 24 2015 → present

## Research output

### Phytosociological data and herbarium collections show congruent large-scale patterns but differ in their local descriptions of community composition

Bottin, M. J., Peyre, G., Vargas, C., Raz, L., Richardson, J. E. & Sanchez, A., Nov 1 2019, In : Journal of Vegetation Science. p. 1-9 9 p.

### The Family Placement of *Cyrtandromoea*

Richardson, J. E., Aug 1 2019, In : Systematic Botany. 44, 3, p. 616 630 p.

### Character Evolution and Recircumscription of the Northern Andean *Begonia* Section *Casparya* (Begoniaceae): *Begonia* character evolution

Jara-Muñoz, O. A., Richardson, J. E. & Madriñan, S., Feb 1 2019, In : Systematic Botany. 44, 1, p. 52-65 14 p.

### PHYLOGENY of TWO AFRICAN GENERA of SAPOTACEAE - ENGLEROPHYTUM and SYNSEPALUM: phylogeny Sapotaceae

Borg, D., Richardson, J. E., Harris, D. J., Gautier, L., Hughes, M. & MacKinder, B., Jan 1 2019, In : Edinburgh Journal of Botany. p. 1 37 p.

### Graphs in phylogenetic comparative analysis: Anscombe's quartet revisited

Revell, L. J., Schliep, K., Valderrama, E. & Richardson, J. E., Oct 1 2018, In : Methods in Ecology and Evolution. 9, 10, p. 2145-2154 10 p.

### Biotic homogeneity of putative biogeographic units in the Neotropics: A test with Sapotaceae

Serrano, J., Richardson, J. E., Pennington, T. D., Cortes-B, R., Cardenas, D., Elliott, A. & Jimenez, I., Aug 1 2018, In : Diversity and Distributions. 24, 8, p. 1121-1135 15 p.

### Peace in Colombia is a critical moment for Neotropical connectivity and conservation: Save the northern Andes-Amazon biodiversity bridge. La paz en Colombia es un momento crítico para la conectividad y la conservación neotropicales: salvar el puente de biodiversidad de los Andes del norte y el Amazonas.

Clerici, N., Salazar, C., Pardo-Díaz, C., Jiggins, C. D., Richardson, J. E. & Linares, M., Jul 13 2018, In : Conservation Letters. N/A, N/A, p. 1 7 p., 12594.

### Filters of floristic exchange: How traits and climate shape the rain forest invasion of Sahul from Sunda

Yap, J. Y. S., Rossetto, M., Costion, C., Crayn, D., Kooyman, R. M., Richardson, J. & Henry, R., Apr 1 2018, In : Journal of Biogeography. 45, 4, p. 838-847 10 p.

**Convergent morphology in alpinieae (Zingiberaceae): Recircumscribing amomum as a monophyletic genus**

de Boer, H., Newman, M., Poulsen, A. D., Jane Droop, A., Fér, T., Hièn, L. T. T., Hlavatá, K., Lamxay, V., Richardson, J. E., Steffen, K. & Leong-Škorničková, J., Mar 1 2018, In : *Taxon*. 67, 1, p. 6-36 31 p.

**Using dated molecular phylogenies to help reconstruct geological, climatic, and biological history: Examples from Colombia**

Richardson, J. E., Madriñán, S., Gómez-Gutiérrez, M. C., Valderrama, E., Luna, J., Banda-R., K., Serrano, J., Torres, M. F., Jara, O. A., Aldana, A. M., Cortés-B., R., Sánchez, D. & Montes, C., Jan 1 2018, (Accepted/In press) In : *Geological Journal*.

**Transcriptome mining for phylogenetic markers in a recently radiated genus of tropical plants (Renealmia L.f., Zingiberaceae)**

Valderrama, E., Richardson, J. E., Kidner, C. A., Madriñán, S. & Stone, G. N., 2018, In : *Molecular Phylogenetics and Evolution*. 119, p. 13-24 12 p.

**Genetic diversity in the Andes: variation within and between the South American species of Oreobolus R. Br. (Cyperaceae)**

Gómez-Gutiérrez, M. C., Pennington, R. T., Neaves, L. E., Milne, R. I., Madriñán, S. & Richardson, J. E., Oct 1 2017, In : *Alpine Botany*. 127, 2, p. 155-170 16 p.

**A new species of Begonia section Casparya from the Colombian eastern cordillera and a key to the Colombian Casparya**

Jara-Muñoz, O. A., Richardson, J. E. & Madriñán, S., Sep 15 2017, In : *Phytotaxa*. 321, 2, p. 208-212 5 p.

**Origin of tropical diversity: from clades to communities**

Richardson, J. E. (ed.), Dec 2016, *Frontiers Media S. A. (Frontiers Research Topics)*

**Editorial: Origin of tropical diversity: From clades to communities**

Richardson, J. E. & Pennington, R. T., Oct 20 2016, In : *Frontiers in Genetics*.

**Colombia: Dealing in conservation**

Clerici, N., Richardson, J. E., Escobedo, F. J., Posada, J. M., Linares, M., Sanchez, A. & Vargas, J. F., Oct 14 2016, In : *Science*. 354, 6309, p. 190

**The significance of meristic changes in the flowers of Sapotaceae**

Kümpers, B. M. C., Richardson, J. E., Anderberg, A. A., Wilkie, P. & Ronse De Craene, L. P., Feb 1 2016, In : *Botanical Journal of the Linnean Society*. p. 161-192 32 p.

**Do Mediterranean-type ecosystems have a common history?-Insights from the Buckthorn family (Rhamnaceae)**

Onstein, R. E., Carter, R. J., Xing, Y., Richardson, J. E. & Linder, H. P., Mar 1 2015, In : *Evolution*. 69, 3, p. 756-771 16 p.

**Continental-scale diversification patterns in a megadiverse genus: The biogeography of Neotropical Begonia**

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**Corrigendum to Patterns of diversification amongst tropical regions compared: A case study in Sapotaceae**

Armstrong, K. E., Stone, G. N., Nicholls, J. A., Valderrama, E., Anderberg, A. A., Smedmark, J., Gautier, L., Naciri, Y., Milne, R. & Richardson, J. E., 2015, In : *Frontiers in Genetics*. 6, MAR

**Historical biogeography of the Neotropical legume genus *Dussia*: the Andes, the Panams Isthmus and the Choco**

Richardson, J-E., Winterton, C., Hart, M. L., Clark, A., Zamora, N. & Pennington, R. T., 2015, *Missouri Botanical Garden*.

**The age of chocolate: a diversification history of *Theobroma* and *Malvaceae***

Richardson, J-E., Whitlock, B. A., Madriñán, S. & Meerow, A. W., 2015, In : *Frontiers Science Series (Conferences and Proceedings)*. 10

**The influence of tectonics, sea-level changes and dispersal on migration and diversification of Isonandreae (Sapotaceae)**

Richardson, J. E., Bakar, A. M., Tosh, J., Armstrong, K., Smedmark, J., Anderberg, A. A., Slik, F. & Wilkie, P., Dec 16 2013, In : *Botanical Journal of the Linnean Society*. 174, 1, p. 130-140 11 p.

**Páramo is the world's fastest evolving and coolest biodiversity hotspot**

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**Genomic Treasure Troves: Complete Genome Sequencing of Herbarium and Insect Museum Specimens**

Staats, M., Erkens, R. H. J., van de Vossen, B., Wieringa, J. J., Kraaijeveld, K., Stielow, B., Geml, J., Richardson, J. E. & Bakker, F. T., Jul 2013, In : *PLoS One*. 8, 7, p. 1-11 11 p.

**West to east dispersal and subsequent rapid diversification of the mega-diverse genus *Begonia* (Begoniaceae) in the Malesian archipelago**

Thomas, D. C., Hughes, M., Phutthai, T., Ardi, W. H., Rajbhandary, S., Rubite, R., Twyford, A. D. & Richardson, J. E., Jan 1 2012, In : *Journal of Biogeography*. p. 98-113 16 p.

**Biotic Evolution and Environmental Change in Southeast Asia**

Richardson, J-E., 2012, Cambridge University Press.

**The Malesian Floristic Interchange**

Richardson, J-E., Costion, C. M. & Muellner, A., 2012, Cambridge University Press. 26 p.

**Vicariance or long-distance dispersal: Historical biogeography of the pantropical subfamily Chrysophylloideae (Sapotaceae)**

Bartish, I. V., Antonelli, A., Richardson, J. E. & Swenson, U., 2011, In : *Journal of Biogeography*. 38, 1, p. 177-190 14 p.

**Phylogeny and dating of *Aframomum* (Zingiberaceae)**

Richardson, J-E., 2010, Aarhus University Press.

**A DNA barcode for land plants**

Hollingsworth, P. M., Forrest, L. L., Spouge, J. L., Hajibabaei, M., Ratnasingham, S., van der Bank, M., Chase, M. W., Cowan, R. S., Erickson, D. L., Fazekas, A. J., Graham, S. W., James, K. E., Kim, K.-J., John Kress, W., Schneider, H., van AlphenStahl, J., Barrett, S. C. H., van den Berg, C., Bogarin, D., Burgess, K. S. & 32 others, Cameron, K. M., Carine, M., Chacón, J., Clark, A., Clarkson, J. J., Conrad, F., Devey, D. S., Ford, C. S., Hedderson, T. A. J., Hollingsworth, M. L., Husband, B. C., Kelly, L. J., Kesanakurti, P. R., Kim, J. S., Kim, Y-D., Lahaye, R., Lee, H-L., Long, D. G., Madriñán, S., Maurin, O., Meusnier, I., Newmaster, S. G., Park, C-W., Percy, D. M., Petersen, G., Richardson, J. E., Salazar, G. A., Savolainen, V., Seberg, O., Wilkinson, M. J., Yi, D-K. & Little, D. P., Jul 30 2009, In : *Proceedings of the National Academy of Sciences of the United States of America*. 106, 31, p. 12794-12797 4 p.

**Flanking regions of monomorphic microsatellite loci provide a new source of data for plant species-level phylogenetics**

Chatrou, L. W., Escribano, M. P., Viruel, M. A., Maas, J. W., Richardson, J. E. & Hormaza, J. I., 2009, In : *Molecular Phylogenetics and Evolution*. 53, 3, p. 726-733 8 p.

**Selecting barcoding loci for plants: Evaluation of seven candidate loci with species-level sampling in three divergent groups of land plants**

Hollingsworth, M. L., Andra Clark, A., Forrest, L. L., Richardson, J., Pennington, R. T., Long, D. G., Cowan, R., Chase, M. W., Gaudeul, M. & Hollingsworth, P. M., 2009, In : *Molecular Ecology Resources*. 9, 2, p. 439-457 19 p.

**Spatio-temporal dynamism of hotspots enhances plant diversity**

Chatrou, L. W., Couvreur, T. L. P. & Richardson, J. E., 2009, In : *Journal of Biogeography*. 36, 9, p. 1628-1629 2 p.

**The Linear Angiosperm Phylogeny Group (LAPG) III: A linear sequence of the families in APG III**

Haston, E., Richardson, J. E., Stevens, P. F., Chase, M. W. & Harris, D. J., 2009, In : *Botanical Journal of the Linnean Society*. 161, 2, p. 128-131 4 p.

**Multi-gene phylogeny of the pantropical subfamily Chrysophylloideae (Sapotaceae): Evidence of generic polyphyly and extensive morphological homoplasy**

Swenson, U., Richardson, J. E. & Bartish, I. V., Nov 2008, In : *Cladistics*. 24, 6, p. 1006-1031 26 p.

**Evolution of syncarpy and other morphological characters in African Annonaceae: A posterior mapping approach**

Couvreur, T. L. P., Richardson, J. E., Sosef, M. S. M., Erkens, R. H. J. & Chatrou, L. W., Apr 2008, In : *Molecular Phylogenetics and Evolution*. 47, 1, p. 302-318 17 p.

**Molecular phylogenetics reveal multiple tertiary vicariance origins of the African rain forest trees**

Couvreur, T. L. P., Chatrou, L. W., Sosef, M. S. M. & Richardson, J. E., 2008, In : *BMC Biology*. 6, 10 p.

**Recent oceanic long-distance dispersal and divergence in the amphi-Atlantic rain forest genus *Renealmia* L.f. (Zingiberaceae)**

Särkinen, T. E., Newman, M. F., Maas, P. J. M., Maas, H., Poulsen, A. D., Harris, D. J., Richardson, J. E., Clark, A., Hollingsworth, M. & Toby Pennington, R., Sep 2007, In : *Molecular Phylogenetics and Evolution*. 44, 3, p. 968-980 13 p.

**A linear sequence of Angiosperm Phylogeny Group II families**

Haston, E., Richardson, J. E., Stevens, P. F., Chase, M. W. & Harris, D. J., Feb 2007, In : *Taxon*. 56, 1, p. 7-12 6 p.

**A proposal for a standardised protocol to barcode all land plants**

Chase, M. W., Cowan, R. S., Hollingsworth, P. M., Van Den Berg, C., Madriñán, S., Petersen, G., Seberg, O., Jørgensen, T., Cameron, K. M., Carine, M., Pedersen, N., Hedderson, T. A. J., Conrad, F., Salazar, G. A., Richardson, J. E., Hollingsworth, M. L., Barraclough, T. G., Kelly, L. & Wilkinson, M., 2007, In : *Taxon*. 56, 2, p. 295-299 5 p.

**Description of four new species of *Monodora* and *Isolona* (Annonaceae) from Tanzania and an overview of Tanzanian Annonaceae diversity**

Couvreur, T. L. P., Gereau, R. E., Wieringa, J. J. & Richardson, J. E., 2006, In : *Adansonia*. 28, 2, p. 243-266 24 p.

**Insights into the historical construction of species-rich biomes from dated plant phylogenies, neutral ecological theory and phylogenetic community structure**

Pennington, R. T., Richardson, J. E. & Lavin, M., 2006, In : *New Phytologist*. 172, 4, p. 605-616 12 p.

**the Evolution of Pink: Morphological and Genetic Variation Among Three *Lithophragma* (Saxifragaceae) Species**

Hufft, R. A. & Richardson, J. E., 2006, In : *Madroño*. 53, 1, p. 25-35 11 p.

**Do farmers reduce genetic diversity when they domesticate tropical trees? A case study from Amazonia**

Hollingsworth, P. M., Dawson, I. K., Goodall-Copestake, W. P., Richardson, J. E., Weber, J. C., Montes, C. S. & Pennington, R. T., 2005, In : *Molecular Ecology*. 14, 2, p. 497-501 5 p.

**Historical biogeography of two cosmopolitan families of flowering plants: Annonaceae and Rhamnaceae**

Richardson, J. E., Chatrou, L. W., Mols, J. B., Erkens, R. H. J. & Pirie, M. D., Oct 2004, In : *Philosophical Transactions of the Royal Society B: Biological Sciences*. 359, 1450, p. 1495-1508 14 p.

**Introduction and synthesis: plant phylogeny and the origin of major biomes**

Richardson, J. E., Cronk, Q. & Pennington, R. T., 2004, In : *Philosophical Transactions of the Royal Society B: Biological Sciences*. p. 1455-1464 10 p.

**Patterns of molecular evolution and diversification in a biodiversity hotspot: The California Floristic Province**

Calsbeek, R., Thompson, J. N. & Richardson, J. E., 2003, In : *Molecular Ecology*. 12, 4, p. 1021-1029 9 p.

**Species delimitation and the origin of populations in island representatives of *Phyllica* (Rhamnaceae)**

Richardson, J. E., Fay, M. F., Cronk, Q. C. B. & Chase, M. W., 2003, In : *Evolution*. 57, 4, p. 816-827 12 p.

**Rapid diversification of a species-rich genus of neotropical rain forest trees**

Richardson, J. E., Pennington, R. T., Pennington, T. D. & Hollingsworth, P. M., Sep 21 2001, In : Science. 293, 5538, p. 2242-2245 4 p.

**Rapid and recent origin of species richness in the Cape flora of south Africa**

Richardson, J. E., Weitz, F. M., Fay, M. F., Cronk, Q. C. B., Linder, H. P., Reeves, G. & Chase, M. W., Aug 2001, In : Nature. 412, 6843, p. 181-183 3 p.

**Phylogenetic analysis of *Phylica* L. (Rhamnaceae) with an emphasis on island species: Evidence from plastid trnL-F and nuclear internal transcribed spacer (ribosomal) DNA sequences**

Richardson, J. E., Weitz, F. M., Fay, M. F., Cronk, Q. C. B., Peter Linder, H., Reeves, G. & Chase, M. W., May 2001, In : Taxon. 50, 2, p. 405-427 23 p.

**Molecular data confirm the affinities of the south-west Australian endemic *Granitites* with *Alphitonia* (Rhamnaceae)**

Fay, M. F., Lledó, M. D., Richardson, J. E., Rye, B. L. & Hopper, S. D., 2001, In : Kew Bulletin. 56, 3, p. 669-675 7 p.

**A phylogenetic analysis of Rhamnaceae using rbcL and trnL-F plastid DNA sequences**

Richardson, J. E., Fay, M. F., Cronk, Q. C. B., Bowman, D. & Chase, M. W., 2000, In : American Journal of Botany. 87, 9, p. 1309-1324 16 p.

**A revision of the tribal classification of Rhamnaceae**

Richardson, J. E., Fay, M. F., Cronk, Q. C. B. & Chase, M. W., 2000, In : Kew Bulletin. 55, 2, p. 311-340 30 p.

**Family relationships of the enigmatic rosid genera *Barbeya* and *Dirachma* from the Horn of Africa region**

Thulin, M., Bremer, B., Richardson, J., Niklasson, J., Fay, M. F. & Chase, M. W., 1998, In : Plant Systematics and Evolution. 213, 1-2, p. 103-119 17 p.

**Molecular data support the inclusion of *Duckeodendron cestroides* in Solanaceae**

Fay, M. F., Olmstead, R. G., Richardson, J. E., Santiago, E., Prance, G. T. & Chase, M. W., 1998, In : Kew Bulletin. 53, 1, p. 203-212 10 p.

**Correlations between leaf flavonoids, taxonomy and plant geography in the genus *Disporum***

Richardson, J. E., Williams, C., Greenham, J. & Eagles, J., Aug 1993, In : Phytochemistry. p. 197-203 7 p.

## Press / Media

**Advisory: First issued under embargo**

James Edward Richardson

6/7/19

2 items of Media coverage

**ARTS CALENDAR**

James Edward Richardson

4/4/16

1 item of Media coverage

**Birthday Honours 2019: The full UK list**

James Edward Richardson

6/8/19 → 6/10/19

2 items of Media coverage

**Botanist on the front lines of battle to save chocolate**

James Edward Richardson

7/8/16

2 items of Media coverage

**Cacao Dates Back 10 Million Years**

James Edward Richardson

11/11/15

1 item of Media coverage

**Cacao evolution study could yield sweet results for chocolate industry**

James Edward Richardson

11/12/15

1 item of Media coverage

**Cacao tree originated 10 million years ago: scientists**

James Edward Richardson

11/13/15

1 item of Media coverage

**Cacao tree will survive climate change, says study**

James Edward Richardson

11/11/15 → 11/12/15

10 items of Media coverage

**'Chocolate Trees' Are Older and More Genetically Diverse Than Previously Thought**

James Edward Richardson

11/16/15

1 item of Media coverage

**Cocoa plant dates back 10 million years**

James Edward Richardson

11/11/15

1 item of Media coverage

**Cocoa plant dates back 10 million years, new research reveals**

James Edward Richardson

11/11/15

1 item of Media coverage

**Crop production clinics planned**

James Edward Richardson

12/30/14

1 item of Media coverage

**Crude Oil Price Surges Lead to Recessions**

James Edward Richardson

5/12/18

1 item of Media coverage

**Evolution can be so sweet**

James Edward Richardson

11/11/15

1 item of Media coverage

**Kamala's Dirty Laundry**

James Edward Richardson

1/30/19

1 item of Media coverage

**Lewis Center welcomes new faculty member**

James Edward Richardson

6/21/17

1 item of Media coverage

**Olivia Colman CBE: Actress 'humbled' as she's named...**

James Edward Richardson

6/8/19

1 item of Media coverage

**Olivia Colman CBE: Actress 'humbled' as she's named in Queen's Birthday Honours list 2019**

James Edward Richardson

6/8/19

3 items of Media coverage

**Origin of chocolate discovered: 10 million years ago!**

James Edward Richardson

11/11/15 → 11/13/15

2 items of Media coverage

**Queen's birthday honours list 2019 in full: here's everyone being recognised this year**

James Edward Richardson

6/11/19

1 item of Media coverage

**Scientists date the origin of the cacao tree to 10 million years ago**

James Edward Richardson

11/10/15 → 11/17/15

3 items of Media coverage

**Scientists Date the Origin of the Cacao Tree to 10 Million Years Ago**

James Edward Richardson

11/12/15

1 item of Media coverage

**Scientists date the origin of the cacao tree to 10 million years ago Frontiers**

James Edward Richardson

11/10/15

1 item of Media coverage

**Secret that kept cavemen sweet... chocolate plant is 10m-years-old**

James Edward Richardson

11/11/15

1 item of Media coverage

**Sharif wins Holmes National Poetry Prize**

James Edward Richardson

8/24/17

1 item of Media coverage

**Study: Cacao tree was born 10 million years ago**

James Edward Richardson

11/11/15

2 items of Media coverage

**Study: Cacao Tree Was Born 10 Million Years Ago**

James Edward Richardson  
11/11/15  
2 items of Media coverage

**Sweet Beginnings: Origins of Chocolate Found**

James Edward Richardson  
11/10/15 → 11/11/15  
5 items of Media coverage

**Sweet History: You Should Thank 10 Million Years Of Cacao Tree Evolution For That Chocolate You Love**

James Edward Richardson  
11/11/15  
2 items of Media coverage

**The GOP Party Platform: "Extreme," "frightening," hideously anti-LGBT**

James Edward Richardson  
7/20/16  
1 item of Media coverage

**This natural chocolate factory is ten million years old**

James Edward Richardson  
11/12/15  
2 items of Media coverage

**Thursday, April 19, 2018**

James Edward Richardson  
4/19/18  
1 item of Media coverage

**Treasury Auctions Set for the Week of June 20**

James Edward Richardson  
6/19/16  
1 item of Media coverage

**Treasury Auctions Set for This Week**

James Edward Richardson  
6/20/16  
1 item of Media coverage

**Tulane professors join Louisiana budget reform task force**

James Edward Richardson  
4/7/16  
1 item of Media coverage

**Why you shouldn't vote SNP in Scotland**

James Edward Richardson  
6/6/17  
3 items of Media coverage

**Projects**

**Begonia phylogeny**

Richardson, J. E. & Jara, O. A.  
10/1/12 → 12/31/20



**Biogeography of Sloanea**

Richardson, J. E. & Niissalo, M.  
7/1/16 → 12/1/18

**Biography of mutualism between plants (Triplaris) and ants (Pseudomyrmex)**

Sanchez Andrade, A. & Richardson, J. E.  
1/1/16 → 1/1/19

**Botanical Resources Available Online for the Colombian Flora**

Richardson, J. E.  
11/1/17 → 3/31/19

**Chocolate Valor**

Richardson, J. E. & Vargas Duque, J. F.  
1/1/16 → 7/1/18

**Diversification rates in Berberis**

Richardson, J. E. & Lavandero, N.  
5/1/15 → 12/31/20

**Ecological Plots of Colombia**

Richardson, J. E.

**Evolution of Coffea (Rubiaceae) in Africa**

Richardson, J. E.  
1/1/15 → 7/1/18

**Evolution of Guyana plants and white sand forests**

Richardson, J. E.  
1/1/15 → 7/1/18

**Filogenia de Hevea**

Richardson, J. E. & Fabriani, F.  
1/1/16 → 7/1/18

**Micropholis Barcodes**

Richardson, J. E. & Cortes, R.  
9/1/15 → 1/1/18

**New species of Begonia - Begonia filogenia**

Richardson, J. E. & Jara, O. A.  
7/1/16 → 12/1/18

**Oreobolus genetics of populations**

Richardson, J. E.  
7/1/16 → 12/1/18

**Oreobolus genetics de poblaciones**

Richardson, J. E. & Gomez, M. C.  
10/1/10 → 10/31/17

**Patterns of diversity and connectivity in the wilderness**

Sanchez Andrade, A., Bottin, M. J. & Richardson, J. E.

2/13/17 → 2/13/18

**Phylogeny and phylogeography of Cocoa**

Richardson, J. E.

**Phylogeny of Renealmia - Diversification rates in Renealmia**

Richardson, J. E. & Valderrama, E.

7/1/16 → 12/1/18

**Plants and ants**

Richardson, J. E. & Torres, M. F.

1/1/14 → 12/31/20

**Rates of diversification in Renealmia**

Richardson, J. E. & Valderrama, E.

10/1/11 → 10/31/20

**Sapotaceae de Colombia**

Richardson, J. E. & Serrano, J.

10/1/13 → 12/31/20

**Sapotaceae of Africa**

Richardson, J. E. & Gauthier, L.

7/1/16 → 12/1/18