

# JAMES EDWARD RICHARDSON

## CURRICULUM VITAE

### Personal Details

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### Professional Statement

A PhD qualified professional with significant research and teaching experience in public and private sectors including the management of research and teaching programs in the UK and overseas.

### Websites

<http://www.rbgecolombia.wordpress.com>

### Current Position

Professor, Biology Program, University of Rosario, Bogotá, Colombia. Director of the post-doctoral program, responsible for the management of 45 PhD students, reporting to the Dean of the Faculty.

Since July 2010: Adjunct Professor, The University of the Andes, Bogotá, Colombia.

Since July 2015. Research Associate, Royal Botanic Garden Edinburgh.

### Academic Qualifications and Work Experience

2005-2015: Head of Tropical Biogeography and Evolution, Royal Botanic Garden, Edinburgh, UK. Director of a research program that has included 12 PhD and 15 masters students, reporting to the Director of Science.

2003-2005: Assistant Professor in Plant Systematics, Wageningen University, The Netherlands. Development of a research program including PhD and Masters students. Teaching undergraduate plant systematics, reporting to the Head of the Department.

2001-2003: Post-doctoral researcher at the University of California at Santa Cruz, United States of America.

1999-2001: Post-doctoral researcher working on the molecular systematics and population genetics of the genus *Inga* (Leguminosae) based at the Royal Botanic Garden, Edinburgh, UK.

1995-1999: University of Edinburgh, Kings Buildings, Edinburgh, UK (research based at Royal Botanic Gardens, Kew). PhD on the molecular systematics of the genus *Phyllica* L. (Rhamnaceae) with an emphasis on the island species.

1992-1995: Research associate on the European Garden Flora project based at the Royal Botanic Garden, Edinburgh, UK. This involved the writing and editing of taxonomic accounts for the flora.

1991-1992: University of Reading, UK. MSc. Pure and applied plant and fungal taxonomy.

1987-1990: University of Leicester, , UK. BSc. Biological Sciences.

1980-1987: Marlborough School, Woodstock, Oxfordshire, UK. 'A' Levels: chemistry, biology, geography.

### Publications

Serrano, J., Richardson, J.E., Pennington, T.D., Cortes-B, R., Cardenas, D. & Jimenez, I. 2018. Biotic homogeneity of putative biogeographic units in the neotropics: a test with Sapotaceae. **Diversity and Distributions** 2018, 1-15. DOI: 10.1111/ddi.12752

Richardson, J.E., Madriñán, S., Gómez, 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. 2018. Using dated molecular phylogenies to reconstruct geological, climatic and biological history: examples from Colombia. **Geological Journal**. DOI: 10.1002/gj.3133

- Yap, J.-Y., S., Rossetto, M., Costion, C., Crayn, D., Kooyman, R., Richardson, J.E. & Henry, R. 2018. Filters of floristic exchange: how traits and climate shape the invasion of Sahul from Sunda. **Journal of Biogeography** 1: 1-10. DOI: 10.1111/jbi.13143
- Richardson, J.E. & Pennington, R.T. 2017. Origin of tropical diversity: from clades to communities. **Frontiers in Genetics** e-book. ISBN 978-2-88945-050-3.
- Clerici, N., Richardson, J.E., Escobedo, F.J., Posada, J.M., Linares, M., Sanchez, A. & Vargas, J.F. 2016. Colombia: dealing in conservation. **Science** 354: 190. doi: 10.1126/science.aaj1459
- Richardson, J.E., Whitlock, B.A., Meerow, A.W. and Madriñán, S. 2015. The age of chocolate: a diversification history of *Theobroma* and Malvaceae. **Frontiers in Genetics** doi.org/10.3389/fevo.2015.00120
- Madriñán, S., Cortés, A.J. & Richardson, J.E. 2013. Páramo is the world's fastest evolving and coolest biodiversity hotspot. **Frontiers in Genetics**. doi: 10.3389/fgene.2013.00192.
- Sarkinen, T., Staats, M., Richardson, J. E., Cowan, R. & Bakker, F. T. 2012. How to open the treasure chest: Optimizing DNA extraction from herbarium specimens. **PLoS One**. doi: 10.1371/journal.pone.0043808.
- Warren, B.H., Bakker, F.T., Bellstedt, D.U., Bytebier, B., Claßen-Bockhoff, R., Dreyer, L.L., Edwards, D., Forest, F., Galley, C., Hardy, C.R., Linder, H.P., Muasya, A.M., Mummenhoff, K., Oberlander, K.C., Quint, M., Richardson, J.E., Savolainen, V., Schrire, B.D., van der Niet, T., Verboom, G.A., Yesson, C. & Hawkins, J.A. 2011. Consistent phenological shifts in the making of a biodiversity hotspot: the Cape flora. **BMC Evolutionary Biology** 11: 39.
- Haston, E., Richardson, J.E., Stevens, P.F., Chase, M.W. & Harris, D.J. 2009. The Linear Angiosperm Phylogeny Group (LAPG) III: a linear sequence of the families in APG III. **Botanical Journal of the Linnean Society** 161: 128–131.
- Hollingsworth, P.M., Forrest, L.L., Spouge, J.L., Hajibabaei, M., Ratnasingham, N., 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., Kress, W.J., Schneider, H., van Alphen Stahl, J., Barrett, S.C.H., van den Berg, C., Bogarin, D., Burgess, K.S., 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. 2009. A DNA barcode for land plants. **Proceedings of the National Academy of Sciences USA** 106: 12794-12797.
- Hollingsworth, M.L., Clark, A., Forrest, L.L., Richardson, J.E., Pennington, R.T., Long, D.G., Cowan, R., Chase, M.W., Gaudeul, M. & Hollingsworth, P.M. 2009. Selecting barcoding loci for plants: evaluation of seven candidate loci with species level sampling in three divergent groups of land plants. **Molecular Ecology Resources** 9: 439-457.
- Couvreur, T.L.P., Chatrou, L.W., Sosef, M.S.M. & Richardson, J.E. 2008. Molecular phylogenetics reveal multiple tertiary vicariance origins of African rain forest trees. **BMC Evolutionary Biology** 6: 54-63.
- Chase, M.W., Cowan, R.S., Hollingsworth, P.M., van den Berg, C., Madriñán, S., Petersen, G., Seberg, O., Cameron, K.M., Kress, W.J., Hedderson, T.A.J., Conrad, F., Salazar, G., Carine, M., Barraclough, T.G., Richardson, J.E., Hollingsworth, M., Jørgensen, T., Kelly, L. & Wilkinson, M. 2007. A proposal for a standardized protocol to barcode all land plants. **Taxon**. 56: 295-299.
- Hollingsworth, P.M., Dawson, I.K., Goodall-Copestake, W.P., Richardson, J.E., Weber, J.C., Sotelo Montes, C. & Pennington, R.T. 2005. Do farmers reduce genetic diversity when they domesticate tropical trees? A case study from Amazonia. **Molecular Ecology** 14: 497-501.
- Richardson, J.E., Chatrou, L.W. Mols, J.B., Erkens, R.H.J. & Pirie, M.D. 2004. Historical biogeography of two cosmopolitan families of flowering plants: Annonaceae and Rhamnaceae. **Philosophical Transactions of the Royal Society London** B59: 1495–1508.
- Calsbeek, R.G., Thompson, J.N. & Richardson, J.E. 2003. Patterns of molecular evolution and diversification in a biodiversity hotspot: the California Floristic Province. **Molecular Ecology** 12: 1021-1029.
- Richardson, J.E., Pennington, R.T., Pennington, T.D. & Hollingsworth, P.M. 2001. Rapid diversification of a species-rich genus of neotropical rain forest trees. **Science** 293: 2242-2245.
- Richardson, J.E., Weitz, F.M., Fay, M.F., Cronk, Q.C.B., Linder, H.P., Reeves, G. & Chase, M.W. 2001. Rapid and recent origin of species richness in the Cape flora of South Africa. **Nature** 412: 181-183.
- Richardson, J.E., Fay, M.F., Cronk, Q.C.B., Bowman, D. & Chase, M.W. 2000. A phylogenetic analysis of Rhamnaceae using *rbcl* and *trnL-F* plastid DNA sequences. **American Journal of Botany** 87: 1309-1324.