

EMMANUEL F.A. TOUSSAINT

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EDUCATION

2014	Ph.D.	Ludwig Maximilian University of Munich, Munich, Germany.
2011	M.Sc.	Paris-Saclay University, Orsay, France.
2008	B.Sc.	Paris-Saclay University, Orsay, France.

PROFESSIONAL APPOINTMENTS

2019–present	Research Officer	Natural History Museum of Geneva, Geneva, Switzerland.
2017–2018	Post-doc	Kawahara Lab, University of Florida, Gainesville, USA.
2015–2016	Post-doc	Short Lab, University of Kansas, Lawrence, USA.

AWARDS, FELLOWSHIPS AND GRANTS

2021–2025	Swiss National Science Foundation (SNF) project 310030_200491: Evolution and genomic architecture of flight loss in <i>Calosoma</i> beetles. (PI). 584,179CHF.
2021	Natural History Museum of Geneva project: Phylogenomics of Manticorini tiger beetles using ultraconserved elements. (PI). 6,170 CHF.
2017	Mohamed bin Zayed Species Conservation Fund (MBZ) project 17051545: Conservation status of the Marquesan Snout butterfly, <i>Libythea collettei</i> . (Co-PI). 2,500\$
2016	17 th R.J.H. Hintelmann scientific award for zoological systematics. 5,000€.
2014–2015	German Research Foundation (DFG) project BA2152/20–1: Old World tropical biogeography and the evolution of <i>Charaxes</i> butterflies. (Co-PI). 32,000€.
2013–2018	Travel grants. 1850\$.

ADVISING AND MENTORING

2023–2025	Jérémy Gauthier (Post-doc, University of Geneva, Switzerland)
2022–2025	Cody Raul Cardenas (Ph.D. student, University of Geneva, Switzerland)
2020–2023	Marie Pauli (M.Sc. student, University of Geneva, Switzerland)
2021	Leonardo Platania (Ph.D. student, Pompeu Fabra University-IBE/CSIC, Spain)
2018–2021	Ryan St Laurent (Ph.D. student, University of Florida, USA)
2018	Amanda Widom (Undergraduate student, University of Florida, USA)
2017–2020	Harlan Gough (Ph.D. student, University of Florida, USA)
2017–2018	Chris Johns (Ph.D. student, University of Florida, USA)
2015–2017	Stephen Baca (M.Sc./Ph.D. student, University of Kansas, USA)
2015–2017	Marianna Simões (Ph.D. student, University of Kansas, USA)
2011–2014	Jérôme Morinière (M.Sc./Ph.D. student, Technische Universität München, Germany)
2012	Daniel Frank (M.Sc. student, Ludwig-Maximilians University, Germany)

AFFILIATIONS AND PROFESSIONAL MEMBERSHIPS

Courtesy Faculty at the Florida Museum of Natural History, Gainesville, USA (since 2018)
 Adjunct Research Associate of the KU Natural History Museum, Lawrence USA (since 2016)
 Member of the Linnean Society (Fellow since 2017)
 Member of the Société Entomologique de France (since 2020)

VOLUNTEER AND INTERN TRAINING

2020–present	Elsa Ricossa (Curation and digitization of Museum collections)
2022	Julie Seemann-Ricard (Digitization of Museum collections)
2021–2022	Kilian Brunschwig (Curation and digitization of Museum collections)
2019	Alexandre Singeorzan (Digitization of Museum collections)
2019	Stevan Karadzic (Digitization of Museum collections)

TEACHING AND WORKSHOPS

2020–present	14B013 CR / Advanced Studies in Systematics, CJB, Genève, Suisse. Lecturer.
2019–present	14B642 ST / Faune Genevoise, MHNG, Genève, Suisse. Lecturer.
2019	14B007 CR / Biogeography, University of Geneva, Switzerland. Lecturer.
2018	ENY6934: Seminar in Arthropod Phylogenetic Systematics, University of Florida, USA. Primary instructor.
2017	Divergence dating and time calibrations of phylogenetic trees (Frontiers in Insect Genomics Workshop, 15 th –22 nd October 2017, UNAM, Mexico). Primary instructor.
2017	Molecular divergence time estimation (Phylogenomics Workshop, 6 th –8 th September 2017, University of Florida, USA). Primary instructor.
2012	IGN-TTRC, Module II: DNA Barcoding (Summer 2012 / Undergraduate students) – Primary instructor (University of Andalas and University of Brawijaya, Indonesia).

JOURNAL AD HOC PEER REVIEWER

Annales de la Société entomologique de France (N.S.), Austral Entomology, Biodiversity Data Journal, Biological Journal of the Linnean Society, Biological Reviews, BMC Evolutionary Biology, Diversity, Ecography, Ecology Letters, European Journal of Entomology, Evolution, Global Ecology and Biogeography, Insect Systematics and Diversity, Insects, Integrative and Comparative Biology, Invertebrate Systematics, iScience, Journal of African Earth Sciences, Journal of Biogeography, Molecular Biology and Evolution, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Nature Communications, PeerJ, PLoS ONE, Royal Society Open Science, Scientific Reports, Systematics and Biodiversity, Systematic Biology, Systematic Entomology, Tropical Lepidoptera Research, Zoologica Scripta, Zoological Journal of the Linnean Society, ZooKeys, Zootaxa.

FUNDING AGENCY AND TRAINING PROGRAM AD HOC PEER REVIEWER

German Research Foundation (DFG), National Science Center Poland (NCN), Norwegian Research School in Biosystematics (ForBio), PRESTIGE Postdoc program (Marie Curie Actions COFUND), UKRI Natural Environment Research Council (NERC).

OTHER PROFESSIONAL SERVICES

2021–present	Editorial Board Member for <i>BMC Ecology and Evolution</i>
2021–present	Editorial Board Member for <i>Revue suisse de Zoologie</i>
2020–present	Evaluator for the Coleopterists Society Graduate Student Research Enhancement Awards
2023	Judge for the student presentation competition. Biology23 meeting (16–17 th February 2023, Geneva, Switzerland)
2022	Judge for the student presentation competition. 4 th SAGE meeting (8–12 nd August 2022, Manila, Philippines)
2021	Ph.D. Opponent for Karen Salazar, Sorbonne University, France (defense 10 th December 2021)
2021	Ph.D. Opponent for Aslak Kappel Hansen, Natural History Museum of Denmark, University of Copenhagen, Denmark (defense 22 nd April 2021)
2019–2021	Organizer of the “Seminars in Systematics, Ecology, Evolution and Geosciences of Geneva” at the Natural History Museum of Geneva, Switzerland
2019–2020	Member of the Swiss Natural History Collections Network (SwissCollNet)
2015	Judge for the student presentation competition. Entomology 2015 - The Entomological Society of America 63 rd Annual Meeting (14–18 th November 2015, Minneapolis, USA)

MEDIA INTERACTION AND OUTREACH

- 2022 Interview in CQFD (RTS / Radio Télévision Suisse) – « Comment vont les insectes: des comportements bizarres ». (21st June 2022).
- 2021 Interview in Couleurs Locales (RTS / Radio Télévision Suisse) – « À la découverte des xylophages, ces insectes mangeurs de bois ». (15th September 2021).
- 2021 “Skype a Scientist”: 1st grade class, Virtual School Elementary (Halton District School Board), Oakville, Ontario, Canada. (Teacher: Sasha Crawford). (14th June 2021).
- 2021 Interview in 19h30 (RTS / Radio Télévision Suisse) – « Très importantes pour la biodiversité et l’environnement, les libellules sont menacées d’extinction ». (17th April 2021).
- 2021 Live streaming for the series “Museum LIVE” in the temporary exhibit Trésors of the Natural History Museum of Geneva (31st March 2021).
- 2021 “Skype a Scientist”: 7th grade class, St. Jerome School, Philadelphia, PA, USA. (Teacher: Tina Schmidt). (24th March 2021).
- 2020 Interview in Terre & Nature – « Nommer la nature qui nous entoure, c’est l’art menacé de la taxonomie » (story by Clément Grandjean). (8th October 2020).
- 2020 Article “Les Carabes, Calosomes et Cychres de Genève: détenteurs de mystères évolutifs et maillons essentiels au bon équilibre environnemental” on the museumlab-geneve web site (20th July 2020).
- 2020 “Skype a Scientist”: 5th grade class, MUSE School, Calabasas, CA, USA. (Teacher: Karen Ford). (5th May 2020).
- 2019 “Skype a Scientist”: 4th grade class, Catawba Springs Elementary, Denver, NC, USA. (Teacher: Kim Mileta). (1st April 2019).
- 2019 Interview in Genève Grandeur Nature (Léman Bleu Télévision) – « Papillons de Genève » (3rd April 2019).
- 2019 Interview in CQFD (RTS / Radio Télévision Suisse) – « L’origine des demoiselles géantes ». (19th March 2019).
- 2019 “Skype a Scientist”: 10th grade class, King William High School, King William, VA, USA. (Teacher: Lydia Gruber). (16th January 2019).
- 2018 “Skype a Scientist”: 4th grade class, Blue Mountain School District, Orwigsburg, PA, USA. (Teacher: Amy Krick). (20th November 2018).
- 2018 Interview in UF News – « Building a bug’s life / Meet the entomologist traversing the tropics to understand insect histories » (story by Darcy Herlihy). (15th August 2018).
- 2014 “Nuits des insectes au Manoir du Catel” / Light-trapping with a local community in a preserved landscape, the “clos-masure” - 31st European Heritage Days (20th–21st September 2014, Manoir du Catel, Ecretteville-lès-Baons, France).

PEER–REVIEWED PUBLICATIONS († equally contributing authors / § co-senior authors)

79. Condamine FL, Allio R, Reboud EL, Dupuis JR, **Toussaint EFA**, Mazet N, Hu S-J, Lewis DS, Kunte K, Cotton AM, Sperling FAH (2023). A comprehensive phylogeny and revised taxonomy illuminate the origin and diversification of the global radiation of *Papilio* (Lepidoptera: Papilionidae). *Molecular Phylogenetics and Evolution* (in press).
78. Kawahara AY, Storer C, Carvalho APS, Plotkin DM, Condamine FL, Braga MP, Ellis EA, St Laurent RA, Li X, Barve V, Cai L, Earl C, Frandsen PB, Owens HL, Valencia-Montoya WA, Aduse-Poku K, **Toussaint EFA**, Dexter KM, Doleck T, Markee A, Messcher R, Nguyen Y-L, Badon JAT, Benítez HA, Braby MF, Buenavente PAC, Chan W-P, Collins SC, Childers RAR, Dankowicz E, Eastwood R, Fric ZF, Gott RJ, Hall JPW, Hallwachs W, Hardy NB, Sipe RLH, Heath A, Hinolan JD, Homziak NT, Hsu Y-F, Inayoshi Y, Itliong MGA, Janzen DH, Kitching IJ, Kunte K, Lamas G, Landis MJ, Larsen EA, Larsen TB, Leong JV, Lukhtanov V, Maier CA, Martinez JI, Martins DJ, Maruyama K, Maunsell SC, Mega NO, Monastyrskii A, Morais ABB, Müller CJ, Naïve MAK, Nielsen P, Padrón PS, Peggie D, Romanowski HP, Sáfián S, Saito M, Schröder S, Shirey V, Soltis D, Soltis G, Sourakov A, Talavera G, Vila R, Vlasanek P, Wang H, Warren AD, Willmott KR, Yago M, Jetz W, Jarzyna MA, Breinholt JW, Espeland M, Ries L, Guralnick RP, Pierce NE, Lohman DJ (2023) A global phylogeny of butterflies reveals their evolutionary history, ancestral hosts, and biogeographic origins. *Nature Ecology and Evolution* (in press).
77. Cosandey V, **Toussaint EFA** (2023) Catalogue of the Diptera type material housed in the collection of the Natural History Museum of Geneva, Switzerland. *Revue suisse de Zoologie* (in press).
76. **Toussaint EFA** (2023) Book Review: Ief Peeters 2022. *The Genus Carabus in Belgium* (Coleoptera: Carabidae). 2022. Phegea 50 (Supplement): 1-260. 389 photographs. Format: 21 x 29.7 cm. Price: 55€ (www.phegea.org). *Revue suisse de Zoologie* (in press).
75. Kawahara AY, Martinez JI, Plotkin DM, Markee A, Butterwort V, Couch C, **Toussaint EFA** (2023) Mezcal worm in a bottle: DNA evidence suggests a single moth species. *PeerJ*, 11: e14948.
74. **Toussaint EFA**, Braby MF, Müller CJ, Dexter KM, Storer CG, Lohman DJ, Kawahara AY (2023) Explosive Cenozoic origin and diversity-dependent diversification dynamics shaped the evolution of Australian skipper butterflies. *Evolutionary Journal of the Linnean Society*, 1(1): 1–10.
73. Bilton DT, Jäch M, Ribera I, **Toussaint EFA** (2023) Minute moss beetles in the Southern Hemisphere: Molecular phylogeny, historical biogeography and habitat shifts (Coleoptera: Hydraenidae). *Systematic Entomology*, 48(1): 142–162.
72. **Toussaint EFA**, Braby MF, Müller CJ, Petrie EA, Kawahara AY (2022) Molecular phylogeny, systematics and generic classification of the butterfly subfamily Trapezitinae (Lepidoptera: Papilionoidea: Hesperiiidae). *Zoological Journal of the Linnean Society*, 195(4): 1407–1421.
71. Baca SM[†], Gustafson GT[†], Alexander AM, Gough HM, **Toussaint EFA** (2021) Integrative phylogenomics reveals a Permian origin of Adephaga beetles. *Systematic Entomology*, 46(4): 968–990.
70. **Toussaint EFA**[†], Gauthier J[†], Bilat J, Gillett CPDT, Gough HM, Lundkvist H, Muñoz-Ramírez CP, Alvarez N (2021) HyRAD-X exome capture museomics unfolds giant ground beetle evolution. *Genome Biology and Evolution*, 13(7): evab112.
69. Carvalho APS, St Laurent RA, **Toussaint EFA**, Storer CG, Dexter KM, Aduse-Poku K, Kawahara AY (2021) Is sexual conflict a driver of speciation? A case study with a tribe of brush-footed butterflies. *Systematic Biology*, 70(3): 413–420.
68. **Toussaint EFA**, White LT, Shaverdo HV, Lam A, Surbakti S, Panjaitan R, Sumoked B, von Rintelen T, Sagata K, Balke M (2021) New Guinean orogenic dynamics and biota evolution revealed using a custom geospatial analysis pipeline. *BMC Ecology and Evolution*, 21: 51.

67. Short AEZ, Girón JC, **Toussaint EFA** (2021) Evolution and biogeography of acidocerine water scavenger beetles (Coleoptera: Hydrophilidae) shaped by Gondwanan vicariance and Cenozoic isolation of South America. *Systematic Entomology*, 46(2): 380–395.
66. **Toussaint EFA**, Chiba H, Yago M, Dexter KM, Warren AD, Storer CG, Lohman DJ, Kawahara AY (2021) Afrotropics on the wing: Phylogenomics and historical biogeography of awl and policeman skippers. *Systematic Entomology*, 46(1): 172–185.
65. **Toussaint EFA**, Ellis EA, Gott RJ, Warren AD, Dexter KM, Storer CG, Lohman DJ, Kawahara AY (2021) Historical biogeography of Heteropterinae skippers via Beringian and post-Tethyan corridors. *Zoologica Scripta*, 50(1): 100–111.
64. Ortiz-Acevedo E, Gomez JP, Espeland M, **Toussaint EFA**, Willmott KR (2020) The roles of wing color pattern and geography in the evolution of Neotropical Preponini butterflies. *Ecology and Evolution*, 10(23): 12801–12816.
63. Letsch H, Balke M, **Toussaint EFA**, Narakusumo RP, Fiedler K, Riedel A (2020) Transgressing Wallace’s Line brings hyperdiverse weevils down to earth. *Ecography*, 43(9): 1329–1340.
62. Gillett CPDT, **Toussaint EFA** (2020) Macroevolution and shifts in the feeding biology of the New World scarab beetle tribe Phanaeini (Coleoptera: Scarabaeidae: Scarabaeinae). *Biological Journal of the Linnean Society*, 130(4): 661–682.
61. **Toussaint EFA**, Müller CJ, Morinière J, Tänzler R, Balke M (2020) Glide over the Indo-Australian geological maze: Repeated transgressions of Lydekker’s and Wallace’s Lines in Archdukes, Barons and Dukes (Nymphalidae, Limenitidinae, Adoliadini). *Biological Journal of the Linnean Society*, 129(4): 810–821.
60. Letsch H, Balke M, **Toussaint EFA**, Riedel A (2020) Historical biogeography of the hyperdiverse hidden snout weevils (Coleoptera, Curculionidae, Cryptorhynchinae). *Systematic Entomology*, 45(2): 312–326.
59. Gough HM, Allen JM, **Toussaint EFA**, Storer CG, Kawahara AY (2020) Transcriptomics illuminate the phylogenetic backbone of tiger beetles. *Biological Journal of the Linnean Society*, 129(3): 740–751.
58. **Toussaint EFA**, Warren AD (2019) A review of red eye pigmentation and diel activity patterns in skippers (Lepidoptera, Papilionoidea, Hesperidae). *Journal of Natural History*, 53(35-36): 2165–2181.
57. Kawahara AY, Plotkin D, Espeland M, Meusemann K, **Toussaint EFA**, Donath A, Gimnich F, Frandsen PB, Zwick A, dos Reis M, Barber JR, Peters RS, Liu S, Zhou X, Mayer C, Podsiadlowski L, Storer CG, Yack JE, Misof B, Breinholt JW (2019) Phylogenomics reveals the evolutionary timing and pattern of butterflies and moths. *Proceedings of the National Academy of Sciences, USA*, 116(45): 22657–22663.
56. **Toussaint EFA**, Short AEZ (2019) Historical biogeography of Holarctic *Cymbiodyta* water scavenger beetles in the times of Cenozoic land bridge dispersal routes. *Insect Systematics and Diversity*, 3(5): 8.
55. **Toussaint EFA**, Vila R, Yago M, Chiba H, Warren AD, Aduse-Poku K, Storer CG, Dexter KM, Maruyama K, Lohman DJ, Kawahara AY (2019) Out of the Orient: Post-Tethyan transoceanic and trans-Arabian routes fostered the spread of Baorini skippers in the Afrotropics. *Systematic Entomology*, 44(4): 926–938.
54. **Toussaint EFA**, Dias FMS, Mielke OHH, Casagrande MM, Sañudo-Restrepo CP, Lam A, Morinière J, Balke M, Vila R (2019) Flight over the Proto-Caribbean seaway: Phylogeny and macroevolution of Neotropical Anaeni leafwing butterflies. *Molecular Phylogenetics and Evolution*, 137: 86–103.

53. **Toussaint EFA**, Bybee SM, Erickson RJ, Condamine FL (2019) Forest giants on different evolutionary branches: Ecomorphological convergence in helicopter damselflies. *Evolution*, 73(5): 1045–1054.
52. Simões MVP, Baca SM, **Toussaint EFA**, Windsor DM, Short AEZ (2019) Solving a thorny situation: DNA and morphology illuminate the evolution of the leaf beetle tribe Dorynotini (Coleoptera, Chrysomelidae, Cassidinae). *Zoological Journal of the Linnean Society*, 185(4): 1123–1136.
51. Gough HM, Duran DP, Kawahara AY, **Toussaint EFA** (2019) A comprehensive molecular phylogeny of tiger beetles (Coleoptera, Carabidae, Cicindelinae). *Systematic Entomology*, 44(2): 305–321.
50. **Toussaint EFA**, Turlin B, Balke M (2019) Biogeographical, molecular and morphological evidence unveils cryptic diversity in the Oriental Black Rajah *Charaxes solon* (Fabricius, 1793) (Lepidoptera, Nymphalidae, Charaxinae). *Biological Journal of the Linnean Society*, 126(1): 114–130.
49. Kergoat GJ[†], Condamine FL[†], **Toussaint EFA**, Capdevielle-Dulac C, Clamens AL, Barbut J, Goldstein PZ§, Le Ru BP§ (2018) Opposite macroevolutionary responses to environmental changes in grasses and insects during the Neogene grassland expansion. *Nature Communications*, 9: 5089.
48. Lam A, **Toussaint EFA**, Kindler C, Van Dam MH, Panjaitan R, Roderick GK, Balke M (2018) Stream flow alone does not predict population structure of diving beetles across complex tropical landscapes. *Molecular Ecology*, 27(17): 3541–3554.
47. Johns CA, **Toussaint EFA**, Breinholt JW, Kawahara AY (2018) Origin and macroevolution of micro-moths on sunken Hawaiian islands. *Proceedings of the Royal Society of London B*, 285: 20181047.
46. Kawahara AY, Breinholt JW, Espeland M, Storer CG, Plotkin D, Dexter KM, **Toussaint EFA**, St Laurent RA, Brehm G, Vargas S, Forero D, Pierce NE, Lohman DJ (2018) Phylogenetics of moth-like butterflies (Papilionoidea: Hedyliidae) based on a new 13-locus target capture probe set. *Molecular Phylogenetics and Evolution*, 127: 600–605.
45. **Toussaint EFA**, Short AEZ (2018) Transoceanic stepping–stones between Cretaceous waterfalls? The enigmatic biogeography of pantropical *Oocyclus* cascade beetles. *Molecular Phylogenetics and Evolution*, 127: 416–428.
44. Kawahara AY, **Toussaint EFA** (2018) Conservation note on the status of the rare endemic Marquesan snout butterfly, *Libythea collenettei*. *Proceedings of the Hawaiian Entomological Society*, 50: 25–34.
43. **Toussaint EFA**, Breinholt JW, Earl C, Warren AD, Brower AVZ, Yago M, Dexter KM, Espeland M, Pierce NE, Lohman DJ, Kawahara AY (2018) Anchored phylogenomics illuminates the skipper butterfly tree of life. *BMC Evolutionary Biology*, 18: 101.
42. Espeland M, Breinholt JW, Willmott KR, Vila R, **Toussaint EFA**, Maunsell SC, Aduse-Poku K, Talavera G, Eastwood R, Jarzyna MA, Ries L, Guralnick R, Lohman DJ, Pierce NE, Kawahara AY (2018) A comprehensive and dated phylogenomic analysis of butterflies. *Current Biology*, 28: 1–9.
41. **Toussaint EFA**, Gillett CPDT (2018) Rekindling Jeannel’s Gondwanan vision? Phylogenetics and evolution of Carabinae with a focus on *Calosoma* caterpillar hunter beetles. *Biological Journal of the Linnean Society*, 123(1): 191–207.
40. Short AEZ, Post D, **Toussaint EFA** (2017) Biology, distribution, and phylogenetic placement of the California endemic water scavenger beetle *Hydrochara rickseckeri* (Horn) (Coleoptera: Hydrophilidae). *The Coleopterists Bulletin*, 71(3): 461–467.

39. **Toussaint EFA**, Short AEZ (2017) Biogeographic mirages? Molecular evidence for dispersal-driven evolution in Hydrobiusini water scavenger beetles. *Systematic Entomology*, 42(4): 692–702.
38. Short AEZ, Cole J, **Toussaint EFA** (2017) Phylogeny, classification, and evolution of the water scavenger beetle tribe Hydrobiusini inferred from morphology and molecules (Coleoptera: Hydrophilidae: Hydrophilinae). *Systematic Entomology*, 42(4): 677–691.
37. **Toussaint EFA**, Bloom D, Short AEZ (2017) Cretaceous West Gondwana vicariance shaped giant water scavenger beetle palaeobiogeography. *Journal of Biogeography*, 44(9): 1952–1965.
36. **Toussaint EFA**, Tänzler R, Balke M, Riedel A (2017) Transoceanic origin of microendemic and flightless New Caledonian weevils. *Royal Society Open Science*, 4: 160546.
35. **Toussaint EFA**, Hendrich L, Hájek J, Michat MC, Panjaitan R, Short AEZ, Balke M (2017) Evolution of Pacific Rim diving beetles sheds light on Amphi-Pacific biogeography. *Ecography*, 40(4): 500–510.
34. Hawlitschek O, **Toussaint EFA**, Gehring P-S, Ratsoavina FM, Cole N, Crottini A, Nopper J, Lam AW, Vences M, Glaw F (2017) Gecko phylogeography in the Western Indian Ocean region: The oldest clade of *Ebenavia inunguis* lives on the youngest island. *Journal of Biogeography*, 44(2): 409–420.
33. **Toussaint EFA**, Seidel M, Arriaga-Varela E, Hájek J, Král D, Sekerka s L, Short AEZ, Fikáček M (2017) The peril of dating beetles. *Systematic Entomology*, 42(1): 1–10.
32. Baca SM, **Toussaint EFA**, Miller KB, Short AEZ (2017) Molecular phylogeny of the aquatic beetle family Noteridae (Coleoptera: Adepaga) with an emphasis on data partitioning strategies. *Molecular Phylogenetics and Evolution*, 107: 282–292.
31. **Toussaint EFA**, Short AEZ (2016) Molecular phylogenetics of Atlantic shield *Platynectes* diving beetles (Coleoptera, Dytiscidae): A first glance at the evolution of the genus in the Amazon Basin. *Annales de la Société entomologique de France (N.S.)*, 52(4): 185–191.
30. **Toussaint EFA**, Morinière J, Lam A, Turlin B, Balke M (2016) Bayesian Poisson tree processes and multispecies coalescent models shed new light on the diversification of Nawab butterflies in the Solomon Islands (Nymphalidae, Charaxinae, *Polyura*). *Zoological Journal of the Linnean Society*, 178(2): 241–256.
29. **Toussaint EFA**, Balke M (2016) Historical biogeography of *Polyura* butterflies in the oriental Palaeotropics: trans-archipelagic routes and South Pacific island hopping. *Journal of Biogeography*, 43(8): 1560–1572.
28. **Toussaint EFA**, Fikáček M, Short AEZ (2016) India-Madagascar vicariance explains cascade beetle biogeography. *Biological Journal of the Linnean Society*, 118(4): 982–991.
27. **Toussaint EFA**, Hendrich L, Escalona HE, Porch N, Balke M (2016) Evolutionary history of a secondary terrestrial Australian diving beetle (Coleoptera, Dytiscidae) reveals a lineage of high morphological and ecological plasticity. *Systematic Entomology*, 41(3): 650–657.
26. **Toussaint EFA**, Morinière J, Lam A, Balke M (2016) New insights into the systematics of the genus *Polyura* Billberg, 1820 (Nymphalidae, Charaxinae) with an emphasis on the *P. athamas* group. *Journal of The Lepidopterists' Society*, 70(2): 145–152.
25. Morinière J, Van Dam MH, Hawlitschek O, Bergsten J, Michat MC, Hendrich L, Ribera I, **Toussaint EFA**, Balke M (2016) Phylogenetic niche conservatism explains an inverse latitudinal diversity gradient in freshwater arthropods. *Scientific Reports*, 6: 26340.
24. **Toussaint EFA**, Balke M, García M, Short AEZ (2016) Molecular systematics of the Neotropical diving beetle genus *Rugosus* García, 2001 (Coleoptera: Dytiscidae: Copelatinae). *The Coleopterists Bulletin*, 70(1): 53–58.

23. **Toussaint EFA**[†], Condamine FL[†] (2016) To what extent do new fossil discoveries change our understanding of clade evolution? A cautionary tale from burying beetles (Coleoptera: *Nicrophorus*). *Biological Journal of the Linnean Society*, 117(4): 686–704.
22. **Toussaint EFA**, Beutel RG, Morinière J, Jia F, Xu S, Michat MC, Zhou X, Bilton DT, Ribera I, Balke M (2016) Molecular phylogeny of the highly disjunct cliff water beetles from South Africa and China (Coleoptera, Aspidytidae). *Zoological Journal of the Linnean Society*, 176(3): 537–546.
21. Tänzler R, Van Dam MH, **Toussaint EFA**, Suhardjono YR, Balke M, Riedel A (2016) Macroevolution of hyperdiverse flightless beetles reflects the complex geological history of the Sunda Arc. *Scientific Reports*, 6: 18793.
20. **Toussaint EFA**, Hendrich L, Shaverdo HV, Balke M (2015) Mosaic patterns of diversification dynamics following the colonization of Melanesian islands. *Scientific Reports*, 5: 16016.
19. Faille A[†], Tänzler R, **Toussaint EFA**[†] (2015) On the way to speciation: Shedding light on the karstic phylogeography of the microendemic cave beetle *Aphaenops cerberus* in the Pyrenees. *Journal of Heredity*, 106(6): 692–699.
18. **Toussaint EFA**, Tänzler R, Rahmadi C, Balke M, Riedel A (2015) Biogeography of Australasian flightless weevils (Curculionidae, Celeuthetini) suggests permeability of Lydekker's and Wallace's Lines. *Zoologica Scripta*, 44(6): 632–644.
17. Kergoat GJ, **Toussaint EFA**, Capdevielle-Dulac C, Clamens A-L, Ong'amo G, Conlong D, Van den Berg J, Cugala, D, Pallangyo B, Mubenga O, Chipabika G, Ndemah R, Sezonlin M, Bani G, Molo R, Catalayud P-A, Kaiser L, Silvain J-F, Le Ru BP (2015) Integrative taxonomy reveals six new species related to the Mediterranean corn stalk borer *Sesamia nonagrioides* (Lefèbvre) (Lepidoptera, Noctuidae, Sesamiina). *Zoological Journal of the Linnean Society*, 175(2): 244–270.
16. Condamine FL, **Toussaint EFA**, Clamens A-L, Genson G, Sperling FAH§, Kergoat GJ§ (2015) Deciphering the evolution of birdwing butterflies 150 years after Alfred Russel Wallace. *Scientific Reports*, 5: 11860.
15. **Toussaint EFA**, Morinière J, Müller CJ, Kunte K, Turlin B, Hausmann A, Balke M (2015) Comparative molecular species delimitation in the charismatic Nawab butterflies (Nymphalidae, Charaxinae, *Polyura*). *Molecular Phylogenetics and Evolution*, 91: 194–209.
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11. Hendrich L, **Toussaint EFA**, Balke M (2014) *Brancuporus* nov. gen. a new genus of hydroporine diving beetle (Coleoptera: Dytiscidae: Hydroporini) from Southwestern Australia. *Spixiana*, 37(1): 103–109.
10. **Toussaint EFA**, Hall R, Monaghan M, Sagata K, Ibalim S, Shaverdo HV, Vogler AP, Pons J, Balke M (2014) The towering orogeny of New Guinea as a trigger for arthropod megadiversity. *Nature Communications*, 5: 4001.
9. Tänzler R, **Toussaint EFA**, Suhardjono YR, Balke M, Riedel A (2014) Multiple transgressions of Wallace's Line explain diversity of flightless *Trigonopterus* weevils on Bali. *Proceedings of the Royal Society of London B*, 281(1782): 20132528.

8. Balke M, Warikar E, **Toussaint EFA**, Hendrich L (2013) *Papuadessus baueri* sp.nov. from Biak Island, Papua (Coleoptera: Dytiscidae: Hydroporinae). *Spixiana*, 36(2): 283–288.
7. Balke M, Hendrich L., **Toussaint EFA**, Zhou X, von Rintelen T, de Bruyn M (2013) Suggestions for a molecular biodiversity assessment of South East Asian freshwater invertebrates. Lessons from the megadiverse beetles (Coleoptera). *Journal of Limnology*, 72(2): 61–68.
6. Balke M, Schmidt S, Hausmann A, **Toussaint EFA**, Bergsten J, Buffington M, Häuser C, Kroupa A, Riedel A, Polaszek A, Ubaidillah R, Krogmann L, Zwick L, Fikáček M, Hájek J, Michat MC, Dietrich C, LaSalle J, Mantle B, Ng P (2013) Biodiversity into your hands - A call for a virtual global natural history 'metacollection'. *Frontiers in Zoology*, 10: 55.
5. Balke M, **Toussaint EFA**, Hendrich L, Hájek J (2013) A new species of the Australian genus *Necterosoma* from Timor (Coleoptera: Dytiscidae: Hydroporini). *Acta Entomologica Musei Nationalis Pragae*, 53(1): 65–74.
4. **Toussaint EFA**, Sagata K, Surbakti S, Hendrich L, Balke M (2013) Australasian sky islands act as a diversity pump facilitating peripheral speciation and complex reversal from narrow endemic to widespread ecological supertramp. *Ecology and Evolution*. 3(4): 1031–1049.
3. Condamine FL, **Toussaint EFA**, Cotton A, Sperling FAH, Genson G, Kergoat GJ (2013) Fine-scale biogeographic and temporal diversification processes of peacock swallowtails (*Papilio* subgenus *Achillides*) in the Indo–Australian Archipelago. *Cladistics*, 29(1): 88–111.
2. Hawlitschek O, Hendrich L, Espeland M, **Toussaint EFA**, Genner MJ, Balke M (2012) Pleistocene climate change promoted rapid diversification of aquatic invertebrates in South–East Australia. *BMC Evolutionary Biology*, 12: 142.
1. **Toussaint EFA**, Condamine FL, Kergoat GJ, Capdevielle–Dulac C, Barbut J, Silvain J-F, Le Ru BP (2012) Palaeoenvironmental shifts drove the adaptive radiation of a noctuid stemborer tribe (Lepidoptera, Noctuidae, Apameini) in the Miocene. *PLoS ONE*, 7(7): e41377.

TECHNICAL PUBLICATIONS

1. Hendrich L, Hawlitschek O, **Toussaint EFA**, Tänzler R, Balke M (2014) Wiederfund des Schwimmkäfers *Graphoderus austriacus* (Sturm, 1834) in Bayern sowie weitere aktuelle Vorkommen von *Graphoderus bilineatus* (De Geer, 1774) im Gebiet des Starnberger Sees (Coleoptera: Dytiscidae, Noteridae, Hydrophilidae & Hydraenidae). *Nachrichtenblatt der bayerischen Entomologen*, 63(1/2): 19–28.

ORAL PRESENTATIONS AND POSTERS (* invited)

32. **Toussaint EFA***. Phylogenomics and evolution of Adephaga beetles. Alpine Ecology Laboratory (LECA) Seminars (6th October 2022, Grenoble, France).
31. **Toussaint EFA***. A perspective on butterfly evolution in Southeast Asia. 4th Southeast Asian Gateway Evolution Meeting (8th–12th August 2022, Manila, Philippines).
30. **Toussaint EFA***. Évolution des insectes, des temps géologiques à nos jours. Green Talks of the Institute for Environmental Sciences (22nd March 2022, Geneva, Switzerland).
29. **Toussaint EFA***. New horizons in insect phylogenomics. University of Geneva Department of Genetics and Evolution Virtual Seminar (11th June 2021, online).
28. **Toussaint EFA***. HyRAD phylogenomics sheds light on giant ground beetle evolution. Virtual Genomic Social Hour, California Academy of Sciences (12th June 2020, online).
27. **Toussaint EFA***. New frontiers in insect phylogenomics. Entomo.ch 2020 (6th–7th March 2020, Basel, Switzerland).
26. **Toussaint EFA***. À la découverte de l'évolution des papillons Charaxinae (Nymphalidae) à l'aide de l'ADN. Réunion mensuelle de la Société entomologique de Genève. Museum of Natural History (16th May 2019, Geneva, Switzerland).
25. **Toussaint EFA**, Breinholt JW, Earl C, Warren AD, Brower AVZ, Yago M, Espeland M, Pierce NE, Lohman DJ, Kawahara AY. Reconstructing a comprehensive tree-of-life for skippers (Lepidoptera, HesperIIDae) using a combination of anchored phylogenomics, legacy data and museomics. 37th Meeting of the Willi Hennig Society (16th–20th September 2018, Barcelona, Spain).
24. **Toussaint EFA***. Macroevolutionary dynamics of insect biodiversity using integrative taxonomy and museomics. Museum of Natural History (29th June 2018, Geneva, Switzerland).
23. **Toussaint EFA**, Breinholt JW, Earl C, Warren AD, Brower AVZ, Yago M, Espeland M, Pierce NE, Lohman DJ, Kawahara AY. Skipper anchored phylogenomics: Progress toward a comprehensive evolutionary tree for an enigmatic family of butterflies. 8th International Conference on the Biology of Butterflies (11th–14th June 2018, Bangalore, India).
22. **Toussaint EFA***. Evolution of Charaxinae leafwing butterflies: A tale of Emperors, Forest Queens, Nawabs, Pashas and Rajahs. McGuire Center for Lepidoptera and Biodiversity Seminar (27th March 2018, Gainesville, USA).
21. **Toussaint EFA***. Mechanisms of lineage diversification in tropical butterflies. Frontiers in Insect Genomics (15th–22nd October 2017, Morelia, Mexico).
20. **Toussaint EFA***, Short A. Dwelling in Cretaceous waterfalls? Museum evolution of *Oocyclus* cascade beetles. 25th International Congress of Entomology (25th–30th September 2016, Orlando, USA).
19. **Toussaint EFA***. A water beetle's insights on Earth's geological history. 17th RJH Hintelmann award (15th January 2016, Munich, Germany).
18. **Toussaint EFA**, Short A. Deciphering the evolution of *Oocyclus* tropical waterfall beetles using Bayesian total evidence phylogenetics. Entomology 2015 - The Entomological Society of America 63rd Annual Meeting (14th–18th November 2015, Minneapolis, USA).
17. **Toussaint EFA***. Water beetles as an emerging model to study macroevolutionary processes. University of Alberta (23rd October 2015, Edmonton, Canada).

16. **Toussaint EFA***. Les coléoptères aquatiques, un nouveau modèle pour l'étude des processus macroévolutifs. Centre National de la Recherche Scientifique (11th September 2015, Gif-sur-Yvette, France).
15. **Toussaint EFA***. From molecular taxonomy to macroevolutionary pattern inference: a case study with the charismatic Nawab butterflies (Nymphalidae, Charaxinae, *Polyura*). Muséum National d'Histoire Naturelle (8th September 2015, Paris, France).
14. **Toussaint EFA***. Intégration des approches moléculaires pour l'étude de la systématique et des dynamiques macro-évolutives des insectes. Centre de Biologie et de Gestion des Populations (4th September 2015, Montpellier, France).
13. **Toussaint EFA***. Insects as a model to test macroevolutionary hypotheses in the Australasian archipelago. Museum of Zoology (20th May 2015, Barcelona, Spain).
12. **Toussaint EFA***. From molecular taxonomy and systematics to macroevolution in Lepidoptera. Zoological Research Museum Alexander Koenig (23rd October 2014, Bonn, Germany).
11. **Toussaint EFA***. Les insectes d'un clos-masure au cœur de la biodiversité. 31st European Heritage Days (20th–21st September 2014, Manoir du Catel, Ecreteville-lès-Baons, France).
10. **Toussaint EFA**, Morinière J, Müller CJ, Kunte K, Turlin B, Hausmann A, Balke M. Cryptic diversification of ornamental butterflies across tropical biodiversity hotspots. 7th International Conference on the Biology of Butterflies (11th–14th August 2014, Turku, Finland). (Poster).
9. **Toussaint EFA**, Hall R, Monaghan M, Sagata K, Ibalim S, Shaverdo HV, Vogler AP, Pons J, Balke M. The towering orogeny of New Guinea as a trigger for arthropod megadiversity. 10th European Congress of Entomology (3rd–8th August 2014, York, England).
8. **Toussaint EFA**, Condamine FL, Hawlitschek O, Watts CHS, Porch N, Hendrich L, Balke M. Unveiling the diversification dynamics of Australasian predaceous diving beetles in the Cenozoic. 33rd Meeting of the Willi Hennig Society (6th–10th July 2014, Trento, Italy).
7. **Toussaint EFA**, Condamine FL, Hawlitschek O, Watts CHS, Hendrich L, Balke M. Unveiling the diversification dynamics of Australasian predaceous diving beetles in the Cenozoic. International Biogeography Society Early Career Conference (7th–10th January 2014, Canberra, Australia).
6. **Toussaint EFA***, Hall R, Monaghan M, Sagata K, Ibalim S, Shaverdo HV, Vogler AP, Pons J, Balke M. Deciphering the origins of massive radiations in the New Guinean archipelago. Entomology 2013 - The Entomological Society of America 61st Annual Meeting (10th–13th November 2013, Austin, USA).
5. **Toussaint EFA***, Condamine FL, Hawlitschek O, Watts CHS, Hendrich L, Balke M. Evolutionary dynamics of beetles during the Australian drying-out. Entomology 2013 - The Entomological Society of America 61st Annual Meeting (10th–13th November 2013, Austin, USA).
4. **Toussaint EFA***, Balke M. Massive orogeny as a biodiversity pump for the emerging Papuan giant. 32nd Meeting of the Willi Hennig Society (3rd–7th August 2013, Rostock, Germany).
3. **Toussaint EFA**, Shaverdo HV, Hendrich L, Balke M. Deciphering the origins of massive radiations in the Indo–Australian archipelago - The New Guinean archipelago as a major diversity pump in Australasia. 2nd Southeast Asian Gateway Evolution Meeting (11th–17th March 2013, Berlin, Germany).
2. **Toussaint EFA**, Kergoat GJ, Capdevielle-Dulac C, Barbut J, Silvain J-F, Le Ru BP. Using a phylogenetic integrative approach to infer evolutionary patterns: Evolution, biodiversity and ecology of tropical African stem borer species of the subtribe Sesamiina (Lep. Noctuidae, Apameini). The 4th Printemps de Baillarguet (26th–27th May 2011, Montpellier, France).

1. **Toussaint EFA**, Kergoat GJ, Capdevielle-Dulac C, Barbut J, Silvain J-F, Le Ru BP. Using a phylogenetic integrative approach to infer evolutionary patterns: Evolution, biodiversity and ecology of tropical African stem borer species of the subtribe Sesamiina (Lep. Noctuidae, Apameini). LEGSeriales 2011 (30th–31st May 2011, Cernay-la-Ville, France).