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11 May 2021

Botanical Society of America
Nomination for Marie-Stéphanie Samain
Corresponding Member

This letter serves as my nomination for Marie-Stéphanie Samain as a Corresponding Member of the Botanical Society of America. Dr. Samain is currently the director of the Patzcuaro branch of Instituto de Ecología, Michoacan, Mexico. I have worked with her in collaboration over the past five years as her students have come to my laboratory as visiting scholars to learn molecular techniques for their graduate studies. I have also conducted fieldwork with her in Mexico, and I am very impressed with her career path and her expertise.

Dr. Samain's letters of support come from Dr. Harry (Jack) Horner, Iowa State University, Dr. David Mabberly, University of Oxford, and Dr. Sara Oldfield, IUCN. Each of these scientists have known Dr. Samain for many years and have collaborated with her on various projects. Highlights from these letters include:

Dr. Horner: "Having reviewed nominees in the past as a chair of the BSA Corresponding Member CVommittee, I view Dr. Samain's nomination to be exceptionally strong and acceptable within the guidelines for BSA Corresponding Members…Dr. Samain's professional record clearly demonstrates excellence as a young, already well-recognized and established international plant taxonomist in the categories of research, teaching and administration…"

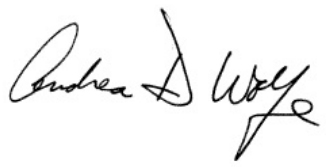
Dr. Mabberly: "…I have watched her career closely and been thrilled that this early promise has led to an astonishingly productive international career as is amply evidenced by her startlingly accomplished curriculum vitae."

Dr. Oldfield: "Marie-Stéphanie is an outstanding botanist. She enjoys and excels in planning projects, fundraising and all aspects of research including fieldwork, herbarium studies and preparing publications. She is a supportive colleague and teacher. Marie-Stéphanie has an excellent record of publications relating to taxonomy of Piperaceae, Hydrangeaceae and Magnoliaceae and conservation of threatened plants."

Dr. Samain speaks five languages, has served as Editor-in-Chief of Acta Botanica Mexicana, has 70 publication (four in review) in international peer-reviewed and indexed journals, an addition 14 in international peer-reviewed journals, and a book. In addition, she has several technical reports, 800 IUCN Red List assessments, and many published taxonomic treatments. Her funding record speaks for itself.

In summary, Dr. Marie-Stéphanie Samain is an excellent candidate for the Botanical Society of America Corresponding Member award.

Sincerely,



Andrea D. Wolfe
Professor
Wolfe.205@osu.edu
614-292-0267

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Department of Genetics, Development and Cell Biology & Roy J. Carver High-Resolution Mjcroscopy Facility, 2437 Pammel Drive, Iowa State University, Ames, IA 50011-1079 USA
hth@iastate.edu

May 10, 2021

Dr. Andrea Wolfe
Chair, Corresponding Member Committee
Botanical Society of America
<wolfe.205@osu.edu>

Dear Dr. Wolfe:

It is with great pleasure that I provide this letter of support for Dr. **Marie-Stephanie Samain** who has been nominated to be a *Corresponding Member* of the Botanical Society of America. Having reviewed nominees in the past as a chair of the BSA Corresponding Member Committee, I view Dr. Samain's nomination to be exceptionally strong and acceptable within the guidelines for BSA Corresponding Members.

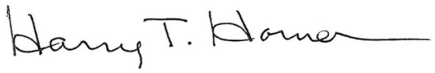
Dr. Samain's professional record clearly demonstrates excellence as a young, already well-recognized and established international plant taxonomist in the categories of research, teaching and administration since receiving her Ph.D. in 2008, only 13 years ago. She has accrued an amazing record in research as she has focused on three taxa, *Peperomia*, *Magnolia* and *Hydrangea* in the Neotropics. Most of this work has been accomplished through a number of important collaborations and plentiful financial support from a variety of funding sources. As a result, she has authored/co-authored about 81 substantial peer-reviewed publications, to date, a book, and three taxonomic treatments. She also has given many contributed and invited local national, and international presentations of her research. Among her publications, four on calcium oxalate crystals in the taxa *Peperomia* and *Piper*, and other members of the Piperales, were jointly published with me. This latter research created a professional and personal relationship between us, along with face-to-face meetings with her in Belgium and Germany. These interactions support my comments that Dr. Samain is an excellent plant scientist and a wonderful human being. It is clear her superb young track record will continue to exponentially grow over the remainder of her hopefully long professional career, and confirm her place among the best top international plant scientists in her field.

Her present position at the Ecology Institute at Pátzcuaro, Mexico provides her a unique place for her important work on the Neotropical plant groups she is studying. Her transition from Ghent University to Mexico has blossomed in other ways. She has taken on administrative duties as Director of the Regional Research Centre of the Institute and Head of the Department of Biological Diversity, affirming her ability to be a leader and visionary for her colleagues at the Institute there. These attributes parallel and compliment her research, teaching, and mentoring.

It is clear Dr. Samain enjoys teaching as part of her professional duties which she has done both at Ghent and in Mexico. Her expertise has also been expressed through her mentoring of many undergraduate, and M.S. and Ph.D. graduate students, as well as serving on a variety of graduate committees. All of these involvements further confirm Dr. Samain commands a great deal of respect for her expertise and ability to guide.

I could provide more detail but Dr. Samain's exceptional professional record is well identified in her curriculum vitae. As her excellent record serves as her best defense for her nomination and acceptance as a Corresponding Member of the Botanical Society of America, I will end by affirming my strongest support of her nomination without any reservations.

Respectfully,



Dr. Harry T. (Jack) Horner, Ph.D.
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https://www.bpmi.iastate.edu/
BSA Member Emeritus and a Past President (1994-1995)

David Mabberley
The Pike House
21 Salisbury Avenue
Mount Victoria, NSW 2786, Australia
email: david_mabberley@yahoo.co.uk

[As from: ***Wadham College, University of Oxford, Oxford OX1 3PN, United Kingdom***]

To whom it may concern **3 May 2021**

Marie-Stéphanie Samain

I have known Marie-Stéphanie Samain since she came, as a graduate student, to Universiteit Leiden - to take my International MSc Course in Economic Botany there. Over the twenty-three years I gave that course, she was by far the best student ever to attend.

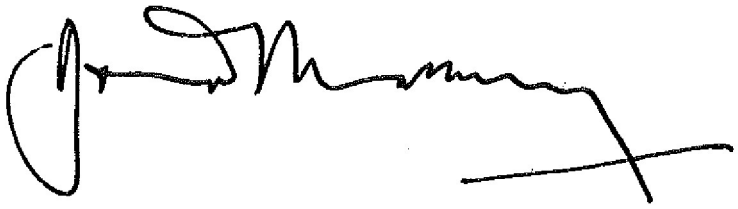
Since then, I have watched her career closely and been thrilled that this early promise has led to an astonishingly productive international career as is amply evidenced by her startlingly accomplished curriculum vitae.

Recently, I got in touch with her again as I was seeking her advice on Piperaceae, in which family she is of course the world authority. She unstintingly supported me in sorting out the matter (which led, deservedly, to my naming a species after her in recognition of her outstanding work on the group).

I think that this anecdote epitomizes her energy, commitment, international outlook, and meticulously, scholarly science, all of which are so characteristic of her work. I am delighted to know thar she is being considered as a candidate for Corresponding Member of the Botanical Society of America. I wholeheartedly support this initiative, as I can think of few more suited to this honour.

Please forgive my not being able to use institutional writing-paper, though I am sure you will understand that, because of federal COVID policies, I cannot get back to Europe, as no-one is currently allowed to leave Australia, save in the direst of circumstances

Yours sincerely



Professor David J Mabberley AM, DSc.

5 Marshall Road
Cambridge, CB1 7TY
UK

Botanical Society of America, Corresponding Membership Committee
Attention: Andi Wolfe

22 April 2021

Dear Andi

I am delighted to support the nomination of Dr Marie-Stéphanie Samain as a corresponding member of the Botanical Society of America. I first met Marie-Stéphanie at a Congress of Botanic Gardens Conservation International (BGCI) in 2010 when she approached me to suggest working on an IUCN Red List of Hydrangeas. Since then, we have worked closely on a number of projects.

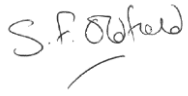
Marie-Stéphanie is an outstanding botanist. She enjoys and excels in planning projects, fundraising and all aspects of research including fieldwork, herbarium studies and preparing publications. She is a supportive colleague and teacher. Marie-Stéphanie has an excellent record of publications relating to taxonomy of Piperaceae, Hydrangeaceae and Magnoliaceae and conservation of threatened plants.

Marie-Stéphanie has been a valued member of the IUCN SSC Global Tree Specialist Group (GTSG) since 2010. She has contributed very significantly to the work of the GTSG which has the ambitious goal of carrying out a complete assessment of the status of the world's tree species by 2020. This is the largest species conservation assessment ever undertaken on behalf of IUCN and will be used to guide conservation action and policy. Marie-Stéphanie shared her expertise and knowledge initially in conservation assessments of Hydrangaceae and Magnoliaceae and subsequently in assessments of over 800 Mexican endemic trees. In the Mexican endemic tree project, Dr Samain has developed an impressive research team and coordinated enhanced approaches to the application of IUCN Red List categories and criteria for tree species. She has worked closely with botanists in the US on conservation assessments for tree species that occur in both Mexico and the US.

It is a pleasure to work with Dr Samain and to benefit from her diligent and scientifically rigorous attention to all tasks as well as her courteous and supportive manner with colleagues in the international botanical community.

I do hope her nomination as a corresponding member of the Botanical Society of America is successful and am happy to provide any more information required in support of this.

Yours sincerely,



Sara Oldfield, Co-Chair, IUCN SSC Global Tree Specialist Group

CURRICULUM VITAE

Marie-Stéphanie Samain
Gent, Belgium, 7 October 1978

I am a plant taxonomist passionate about biodiversity, evolution, systematics, biogeography and conservation of flowering plants, especially in the Neotropics. I mainly work in the families Piperaceae, Hydrangeaceae and Magnoliaceae.

Senior Researcher
Mexican National System of Researchers Level II
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ResearcherID: A-2316-2015
Scopus Author ID: 12138803500
Google Scholar: https://scholar.google.com/citations?user=fEhp6VgAAAAJ&hl=es

1. UNIVERSITY EDUCATION

1. Bachelor
   Kandidaat in de Biologie, Ghent University, Belgium, 2001
   Thesis title: Adaptation to APG 1998 of the Eudicot systematic part of the Botanical Garden. (in Dutch)
   Supervisor: Prof. Dr. Paul Goetghebeur

2. Master
   Licentiaat in de Biologie-optie Plantkunde, Ghent University, Belgium, 2003
   Thesis title: The Cyperaceae of Bénin for the 'Flore Analytique du Bénin'. (in Dutch)
   Supervisor: Prof. Dr. Paul Goetghebeur

3. PhD
   Doctor in Sciences: Biology, Ghent University, Belgium, 2008
   Thesis title: Tackling Pandora's Box. Order out of chaos in the giant genus *Peperomia* (Piperaceae).
   Supervisors: Prof. Dr. Paul Goetghebeur, Prof. Dr. Christoph Neinhuis (TUDresden, Germany)

2. LANGUAGES

Dutch, French, English, German, Spanish

3. WORK EXPERIENCE

- Assistant, Ghent University (Belgium), Department of Biology, Research Group Spermatophytes, 2003-2009.
- Assistant Professor, Ghent University (Bélgica), Department of Biology, Research Group Spermatophytes, 2009-2013.
- Visiting Professor, Ghent University (Belgium), 2016-
- Investigador Titular A, Instituto de Ecología, A.C., Centro Regional del Bajío, 2013-2014.
- Investigador Titular B, Instituto de Ecología, A.C., Centro Regional del Bajío, 2014-2020.
- Investigador Titular C, Instituto de Ecología, A.C., Centro Regional del Bajío, 2020-
- Director of the Centro Regional del Bajío, Instituto de Ecología, A.C., 2014-2017.
- Head of the Department Diversidad Biológica del Occidente Mexicano, Centro Regional del Bajío, Instituto de Ecología, A.C., 2017-2019.

4. EDITORIAL EXPERIENCE

- Editor in Chief, Acta Botanica Mexicana
- Section Editor (Flora of North America, Piperales), Phytotaxa
- Member of the International Editorial Board, Journal of Environmental Studies
- Review Editor, Frontiers in Plant Science

5. DESCRIPTION OF NEW TAXA AND NEW NAMES

1. *Kyllinga beninensis* Samain, Reynders & Goetgh. (2006)
2. Piperaceae subfam. *Verhuellioideae* Trel. ex Samain & Wanke (2008)
3. Piperaceae subfam. *Zippelioideae* Samain & Wanke (2008)
4. *Peperomia pseudophyllantha* Samain (2008)
5. *Peperomia ayacuchoana* Pino & Samain (2011)
6. *Peperomia wernerrauhii* Pino & Samain (2011)
7. *Peperomia palmiformis* Pino & Samain (2012)
8. *Peperomia mitoensis* Pino & Samain (2012)
9. *Peperomia mathieui* Pino & Samain (2012)
10. *Peperomia maijeri* Pino & Samain (2012)
11. *Hydrangea albostellata* Samain, Najarro & E.Martínez (2014)
12. *Peperomia* subgen. *Oxyrhynchum* (Dahlst.) Samain (2015)
13. *Peperomia* subgen. *Leptorhynchum* (Dahlst.) Trel. ex Samain (2015)
14. *Hydrangea platyarguta* Y.De Smet & Samain (2015)
15. *Hydrangea* sect. *Asperae* (Rehder) Y.De Smet & Samain (2015)
16. *Hydrangea* sect. *Broussaisia* (Gaudich.) Y.De Smet & Samain
17. *Hydrangea* sect. *Cardiandra* (Siebold & Zucc.) Y.De Smet & Samain (2015)
18. *Hydrangea* sect. *Chinenses* Y.De Smet & Samain (2015)
19. *Hydrangea* sect. *Decumaria* (L.) Y.De Smet & Samain (2015)
20. *Hydrangea* sect. *Deinanthe* (Maxim.) Y.De Smet & Samain (2015)
21. *Hydrangea* sect. *Dichroa* (Lour.) Y.De Smet & Samain (2015)
22. *Hydrangea* sect. *Hirtae* Y.De Smet & Samain (2015)
23. *Hydrangea* sect. *Macrophyllae* (E.M.McClint.) Y.De Smet & Samain (2015)
24. *Hydrangea* sect. *Schizophragma* (Siebold & Zucc.) Y.De Smet & Samain (2015)

25. *Hydrangea* sect. *Stylosae* Y.De Smet & Samain (2015)
26. *Hydrangea breedlovei* Samain, Najarro & E. Martínez (2019)
27. *Hydrangea carroniae* Samain & E.Martínez (2019)
28. *Hydrangea nahaensis* Samain & E.Martínez (2019)
29. *Hydrangea otontepecensis* Samain & E.Martínez (2019)
30. *Hydrangea sousae* Samain, Najarro & E.Martínez (2019)
31. *Hydrangea tapalapensis* Samain, Najarro & E.Martínez (2019)
32. *Peperomia ricardofernandezii* Pino & Samain (2020)

Moreover, two Piperaceae taxa from Peru have been named after me:
- *Peperomia samainiae* Pino (2012)
- *Piper samainianum* Mabb. (2020)

6. FIELD EXPERIENCE

Ample field work experience for a duration of in total more than four years throughout the Neotropics, in Mexico, Panama, Peru, Cuba, Haiti, Costa Rica, Chile, Bolivia, Ecuador and Colombia, collecting mainly *Peperomia*, *Hydrangea* and *Magnolia*, including visits to local herbaria, always in cooperation with local botanists and students.

7. PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED INDEXED JOURNALS

(*=corresponding author)

1. GRANADOS MENDOZA, C., MARTÍNEZ SALAS, E.M., GOETGHEBEUR, P. WANKE, S. & **SAMAIN, M.S.** Molecular phylogeny, character evolution and biogeography of *Hydrangea* section *Cornidia*, Hydrangeaceae. Frontiers in Plant Science: in review.
2. HERNÁNDEZ RODRÍGUEZ, M., TESTÉ, E., VELTJEN, E., PALMAROLA BEJERANO, A., QUINTANA DELGADO, J., VALDÉS DE LA CRUZ, M., ASSELMAN, P., LARRIDON, I. **SAMAIN, M.S.** & GONZÁLEZ TORRES, L.R. Effect of the landscape on functional and spatial connectivity in *Magnolia cubensis* (Magnoliaceae) in two mountain massifs of Cuba. Conservation Genetics: in review.
3. DE SMET, Y., CIRES RODRÍGUEZ, E., GOETGHEBEUR, P., WANKE, S. & **SAMAIN, M.S.** (2020). Genome-wide RADseq data resolves phylogeny and species boundaries in the *Hydrangea aspera* species complex. Molecular Phylogenetics and Evolution: in review.
4. VELTJEN E., ASSELMAN P., GOETGHEBEUR P., **SAMAIN M.S**. & LARRIDON I. (2020). An integrative approach to understand the diversity of *Magnolia dodecapetala* (Magnoliaceae: *Talauma* subsect. *Talauma*) in the Lesser Antilles. Journal of Biogeography: in review.
5. VELTJEN E., TESTÉ E., PALMAROLA BEJERANO A., ASSELMAN P., HERNÁNDEZ RODRÍGUEZ M., GONZÁLEZ TORRES L. R., CHATROU L.W., GOETGHEBEUR P., LARRIDON I., **SAMAIN M.S.** (2020). The evolutionary history of the Caribbean Magnolias (Magnoliaceae): testing species delimitations and biogeographical hypotheses using molecular data. Molecular Phylogenetics and Evolution: in review.
6. ALDABA NÚÑEZ, F.A., VELTJEN, E., MARTÍNEZ SALAS, E.M. & **SAMAIN, M.S.** (2021). Disentangling species delineation and guiding conservation of endangered Magnolias in Veracruz, Mexico. Plants 10: 673. (2.762)
7. JOST, M., **SAMAIN, M.S.**, MARQUES, I., GRAHAM, S.W. & WANKE, S. (2021). Discordant phylogenomic placement of Hydnoraceae and Lactoridaceae within Piperales using data from all three genomes. Frontiers in Plant Science 12: 642598 (4.298)
8. GUZMÁN-DÍAZ, S., PÉREZ-CALIX, E. & **SAMAIN, M.S.** (2021). *Russelia tehuana* (Plantaginaceae), a new species from the tropical dry deciduous forest in Oaxaca, Mexico. Phytotaxa 491(3):249-256.
9. REDONDA-MARTÍNEZ, R. PLISCOFF, P. MOREIRA-MUÑOZ, A., MARTÍNEZ SALAS, E.M. & **SAMAIN, M.S.** (2021). Towards conservation of the remarkably high number of daisy trees (Asteraceae) in Mexico. Plants 10: 534. (2.762)

10. CHÁVEZ-CORTAZAR, A., OYAMA, K., OCHOA-ZAVALA, M., MATA-ROSAS, M., VELTJEN, E., **SAMAIN, M.S.** & QUESADA, M. (2021). Conservation genetics of relict tropical species of *Magnolia* (section *Macrophylla*). Conservation Genetics 22(2): 1-15. (1.917)
11. ***SAMAIN, M.S.**, GRANADOS MENDOZA, C. & MARTÍNEZ SALAS, E.M. (2021). On *Hydrangea peruviana*, an endangered species from Ecuador, and *Hydrangea oerstedii*, very common in Costa Rica and Panama, and seven threatened Central and South American Hydrangeas, which have been confounded with these. PhytoKeys 171: 91-153.
12. PINO, G., FERNÁNDEZ, R. & **SAMAIN, M.S.** (2020). Succulent Peruvian species of *Peperomia* subgenus *Panicularia*. Haseltonia 27: 116-129.
13. ZACARÍAS-CORREA, A.G., PÉREZ-CALIX, E. **SAMAIN, M.S.** (2020). *Penstemon dugesii* (Plantaginaceae), a new species from Guanajuato, Mexico. Phytotaxa 447(3): 209-215.
14. ZACARÍAS-CORREA, A.G., LIRA-NORIEGA, A., PÉREZ-CALIX, E. **SAMAIN, M.S.** & WOLFE, A.D. (2020). Back to the future of a rare plant species of the Chihuahuan desert: tracing distribution patterns across time and genetic diversity as a basis for conservation actions. Biodiversity and Conservation 29: 1821-1840.
15. HERNÁNDEZ, M., PALMAROLA, A., TESTÉ, E., VELTJEN, E., ASSELMAN, P., LARRIDON, I., **SAMAIN, M.S.** & GONZÁLEZ-TORRES, L.R. (2020). Population structure and genetic diversity of *Magnolia cubensis* subsp. *acunae* (Magnoliaceae): effects of habitat fragmentation and implications for conservation. Oryx 54: 451-459.
16. CHÁVEZ-CORTAZAR, A., MATA-ROSAS, M., OYAMA, K., **SAMAIN, M.S.** & QUESADA, M. (2020). Induction of somatic embryogenesis and evaluation of genetic stability in regenerated plants of *Magnolia dealbata*. Biologia plantarum 64: 224-233.
17. MARTÍNEZ-BAUTISTA, B.G., BERNAL-RAMÍREZ, L.A., BRAVO-AVILEZ, D., **SAMAIN, M.S.**, RAMÍREZ AMEZCUA, J.M. & RENDÓN-AGUILAR, B. (2019). Traditional uses of the family Piperaceae in Oaxaca, Mexico. Tropical Conservation Science 12: 1-22.
18. **SAMAIN, M.S.***, HERNÁNDEZ NAJARRO, F. & MARTÍNEZ SALAS, E.M. (2019). The climbing Hydrangeas (Hydrangeaceae) of Mexico, including description of six (critically) endangered new species. Acta Botanica Mexicana 126: e1463.
19. ZACARÍAS-CORREA, A.G., WOLFE, A.D., MARTÍNEZ SALAS, E.M. & **SAMAIN, M.S.*** (2019). *Penstemon reidmoranii* (Plantaginaceae), a new species from Baja California, Mexico. Phytotaxa 387: 63-70.
20. VELTJEN, E., ASSELMAN, P., HERNÁNDEZ RODRÍGUEZ, M., PALMAROLA BEJERANO, A., TESTÉ LOZANO, E., GONZÁLEZ TORRES, L.R., GOETGHEBEUR, P., LARRIDON, I. & **SAMAIN, M.S.** (2019). Genetic patterns in Neotropical Magnolias (Magnoliaceae) using *de novo* developed microsatellite markers. Heredity 122: 485-500.
21. LARRIDON, I., VELTJEN, E., SEMMOURI, I., ASSELMAN, P., GUERRERO, P.C., DUARTE, M., WALTER, H.E., CISTERNAS, M.A. & **SAMAIN, M.S.** (2018). Investigating taxon boundaries and extinction risk in endemic Chilean cacti (*Copiapoa* subsection *Cinerei*, Cactaceae) using chloroplast DNA sequences, microsatellite data and 3D mapping. Kew Bulletin 73: 55.
22. SALOMO, K. SMITH, J.F., FEILD, T.S., **SAMAIN, M.S.**, BOND, L., DAVIDSON, C., ZIMMERS, J., NEINHUIS, C & WANKE, S. (2017). The emergence of earliest angiosperms may be earlier then fossil evidence indicates. Systematic Botany 42 (4): 607-619. (1.240)
23. WANKE, S., GRANADOS MENDOZA, C., MÜLLER, S., PAIZANNI GUILLÉN, A., NEINHUIS, C., LEMMON, A.R., LEMMON, E.M. & **SAMAIN, M.S.** (2017). Recalcitrant deep and shallow nodes in *Aristolochia* (Aristolochiaceae) illuminated using anchored hybrid enrichment. Molecular Phylogenetics and Evolution 117: 111-123. (4.419)
24. DE SMET, Y., DE CLERCK, O., UEMACHI, T., GRANADOS MENDOZA C., WANKE, S., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2017). Multilocus coalescent species delimitation to evaluate traditionally defined morphotypes in *Hydrangea* sect. *Asperae* (Hydrangeaceae). Molecular Phylogenetics and Evolution 114: 415–425. (4.419)
25. VERGARA-RODRÍGUEZ, D., MATHIEU, G., **SAMAIN, M.S.**, ARMENTA-MONTERO S. & KRÖMER, T. (2017). Diversity, distribution and conservation status of *Peperomia* (Piperaceae) in the state of Veracruz, Mexico. Tropical Conservation Science 10: 1-28. (1.410)

26. HORNER, H.T., WANKE, S., OELSCHLÄGEL, B & **SAMAIN, M.S.** (2017). Peruvian window-leaved Peperomia taxa display unique crystal macropatterns in high-altitude environments. International Journal of Plant Sciences 178: 157-167. (1.536)
27. FRENZKE, L., GOETGHEBEUR, P., NEINHUIS, C., **SAMAIN, M.S.** & WANKE, S. (2016). Evolution of epiphytism and fruit traits act unevenly on the diversification of the species-rich genus *Peperomia* (Piperaceae). Frontiers in Plant Sciences 7: 1145. (4.495)
28. Samain, M.S. (2016). Acta Botanica Mexicana, towards an electronic magazine of high quality. Acta Botanica Mexicana 117: 5-6.
29. *PAIZANNI GUILLÉN, A., SANTANA MICHEL, F.J., RAMÍREZ AMEZCUA, J.M., WAGNER, S.T., MÜLLER, S., MONTERO CASTRO, J.C., WANKE, S. & **SAMAIN, M.S.** (2016). Four new species of *Aristolochia* subsection *Pentandrae* from Western Mexico. Systematic Botany 41: 128-141. (1.098)
30. LARRIDON, I., WALTER, H.E., GUERRERO, P.C., DUARTE, M., CISTERNAS, M.A., PEÑA HERNÁNDEZ, C., BAUTERS, K., ASSELMAN, P., GOETGHEBEUR P. & **SAMAIN, M.S** (2015). An integrative approach to understanding the evolution and diversity of *Copiapoa* (Cactaceae), a threatened endemic Chilean genus from the Atacama Desert. American Journal of Botany: 1506-1520. (2.811)
31. *DE SMET, Y., GRANADOS MENDOZA, C., WANKE, S., GOETGHEBEUR P. & **SAMAIN, M.S.** (2015). Molecular phylogenetics and new (infra)generic classification to alleviate polyphyly in tribe Hydrangeeae (Hydrangeaceae, Cornales). TAXON 64: 741-753. (2.907)
32. DE SMET, Y., LARRIDON, I., BAUTERS, K., GOETGHEBEUR, P., WANKE, S. & **SAMAIN, M.S.** (2015). Re-discovering *Hydrangea sargentiana*, a taxon in need of conservation action. Acta Horticulturae 1087: 221-224. (0.17)
33. WIEDEMANN, M., MEINL, K., **SAMAIN, M.S.**, KLOCKE, E., ABEL, S. & WANKE, S. (2015). Intergeneric hybrids between species of *Hydrangea* and *Dichroa* - their germination in vivo and in vitro and molecular verification by RAPD analysis. Acta Horticulturae 1087: 333-338. (0.17)
34. GRANADOS MENDOZA, C., NAUMANN, J., **SAMAIN, M.S.**, GOETGHEBEUR, P. DE SMET, Y. & WANKE, S. (2015). A genome-scale mining strategy for recovering novel rapidly-evolving nuclear single-copy genes for addressing shallow-scale phylogenetics in Hydrangea. BMC Evolutionary Biology 15: 132 (3.406)
35. *FRENZKE, L., SCHEIRIS, E., PINO, G., SYMMANK, L. GOETGHEBEUR, P. NEINHUIS, C., WANKE, S. & **SAMAIN, M.S.** (2015). A revised infrageneric classification of the genus *Peperomia* (Piperaceae). TAXON 64: 424-444. (2.907)
36. HORNER, H.T., **SAMAIN, M.S.**, WAGNER, S.T. & WANKE, S. (2015). Towards uncovering evolution of lineage-specific calcium oxalate crystal patterns in Piperales. Botany 93: 159-169. (1.317)
37. GRANADOS MENDOZA, C., ISNARD, S., CHARLES-DOMINIQUE, T., VAN DEN BULCKE, J., VAN ACKER, J., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2014). Bouldering: An alternative root-climbing style in *Hydrangea* section *Cornidia* (Hydrangeaceae). Journal of the Royal Society Interface 11: 20140611. (3.818)
38. BUCHWALDER, K., **SAMAIN, M.S.**, SANKOWSKY, G., NEINHUIS, C. & WANKE, S. (2014). Nomenclatural updates of *Aristolochia* subgenus *Pararistolochia* (Aristolochiaceae), Australian Systematic Botany 27: 48-55. (0.648)
39. WAGNER, S.T., HESSE, L., ISNARD, S., **SAMAIN, M.S.**, BOLIN, J., MAASS, E., NEINHUIS, C., ROWE, N., & AND WANKE, S. (2014). Major trends in stem anatomy and growth forms in the perianth-bearing Piperales, with special focus on *Aristolochia.* Annals of Botany 113(7):1139-1154. (3.982)
40. LARRIDON, I., SHAW, K., CISTERNAS, M.A., PAIZANNI GUILLÉN, A., SHARROCK, S., OLDFIELD, S., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2014). Is there a future for the Cactaceae genera *Copiapoa*, *Eriosyce* and *Eulychnia*? A status report of a prickly situation. Biodiversity and Conservation 23 (5): 1249-1287. (2.258)
41. ***SAMAIN, M.S.**, HERNÁNDEZ NAJARRO, F. & MARTÍNEZ SALAS, E. (2014). First record of the critically endangered *Hydrangea steyermarkii* Standl. (Hydrangeaceae) in Mexico, and description of a new widespread Hydrangea species of Mesoamerica. Phytotaxa 162 (4): 181-197. (1.087)
42. GONZÁLEZ, F., WAGNER, S., SYMMANK, L., SALOMO, K., **SAMAIN, M.S.**, ISNARD, S., ROWE, N., NEINHUIS, C. & WANKE, S. (2014). Multiple vicariance events explain complex Trans-Pacific

disjunct lineages and patterns of diversification within *Aristolochia* subgenus *Isotrema* (Aristolochiaceae). Journal of Biogeography 41: 380-391. (3.997)

43. NAUMANN, J., SALOMO, K., DER, J.P., WAFULA, E.K., BOLIN, J.F., MAASS, E., **SAMAIN, M.S.**, NEINHUIS, C. DEPAMPHILIS, C.W. & WANKE, S. (2013). Single-copy nuclear genes place haustorial Hydnoraceae within Piperales and reveal a Cretaceous origin of multiple parasitic angiosperm lineages. PLoS ONE 8(11): e79204. (3.057)
44. GRANADOS MENDOZA, C., WANKE, S, GOETGHEBEUR, P. & **SAMAIN, M.S**. (2013). Facilitating wide hybridization in *Hydrangea* s.l. cultivars: a phylogenetic and marker-assisted approach. Molecular Breeding 32: 233-239. (2.108)
45. *CIRES, E., DE SMET, Y., CUESTA, C. GOETGHEBEUR, P., SHARROCK, S., GIBBS, D., OLDFIELD, S., KRAMER, A. & **SAMAIN, M.S.** (2013). Gap analyses to support *ex situ* conservation of genetic diversity in *Magnolia*, a flagship plant group. Biodiversity and Conservation 22: 567-590. (2.258)
46. GRANADOS MENDOZA, C., WANKE, S, SALOMO, K., GOETGHEBEUR, P. & **SAMAIN, M.S**. (2013). First application of the phylogenetic informativeness method to chloroplast markers: a test case of closely related species in tribe Hydrangeeae (Hydrangeaceae). Molecular Phylogenetics and Evolution 66: 233-242. (3.792)
47. PINO, G., CIEZA, N. WANKE, S. & **SAMAIN, M.S.** (2012). New succulent window-leaved Peperomias from Peru. Haseltonia 18: 5-28 (0.500)
48. WAGNER, S.T, ISNARD, S., ROWE, N.P., **SAMAIN, M.S.**, NEINHUIS, C. & WANKE, S. (2012) Escaping the lianoid habit: evolution of shrub-like growth forms in *Aristolochia* subgenus *Isotrema* (Aristolochiaceae). American Journal of Botany 99: 1609-1629. (2.811)
49. ISNARD, I. PROSPERI, J., WANKE, S., WAGNER, S.T, **SAMAIN, M.S.**, TRUEBA, S., FRENZKE, L., NEINHUIS, C. & ROWE, N.P. (2012). Growth form evolution in Piperales and its relevance for understanding the angiosperm diversification: An integrative approach combining plant architecture, anatomy and biomechanics. International Journal of Plant Sciences: 173: 610-639. (1.536)
50. HORNER, H.T., WANKE, S. & **SAMAIN, M.S.** (2012). Evolution and systematic value of leaf crystal macropatterns in the genus *Piper* (Piperaceae): a comparison with the genus *Peperomia.* American Journal of Botany 99: 983-997. (2.811)
51. DE SMET, Y., GOETGHEBEUR, P., WANKE, S., ASSELMAN, P. & **SAMAIN, M.S.** (2012). Additional evidence for recent divergence of Chinese *Epimedium* (Berberidaceae) derived from AFLP, chloroplast and nuclear data supplemented with characterisation of leaflet pubescence. Plant Ecology and Evolution 145: 73-87. (1.162)
52. NAUMANN, J., SYMMANK, L., **SAMAIN, M.S.**, MÜLLER, K.F., NEINHUIS, C, DEPAMPHILIS, C.W. & WANKE, S. (2011). Chasing the hare – Evaluating the phylogenetic utility of a nuclear single copy gene region at and below species level within the species rich group *Peperomia* (Piperaceae). BMC Evolutionary Biology 11: 357. (3.406)
53. SYMMANK, L.*, **SAMAIN, M.S.***, SMITH, J.F., PINO, G., GOETGHEBEUR, P., NEINHUIS, C. & WANKE S. (2011). From the Andean cradle in Peru to the Trans-Mexican Volcanic Belt: the extraordinary journey of the geophytic *Peperomia* subgenus *Tildenia* (Piperaceae). Journal of Biogeography 38: 2337-2349. (*contribución igual) (3.997)
54. CIRES, E., **SAMAIN, M.S.**, GOETGHEBEUR, P. & FERNÁNDEZ PRIETO, J.E. (2011). Genetic structure in peripheral Western European populations of the endangered species *Cochlearia pyrenaica* (Brassicaceae). Plant Systematics and Evolution 297: 75-85. (1.361)
55. *MATHIEU, G., SYMMANK, L., CALLEJAS, R., WANKE S., NEINHUIS, C., GOETGHEBEUR P. & **SAMAIN, M.S.** (2011). New geophytic *Peperomia* (Piperaceae) species from Mexico, Belize and Costa Rica. Revista Mexicana de Biodiversidad 82: 357-382. (0.493)
56. ***SAMAIN, M.S.**, MATHIEU, G., PINO, G., SYMMANK, L., CIEZA, N., NEINHUIS, C., GOETGHEBEUR P. & WANKE S. (2011). The geophytic *Peperomia* subgenus *Tildenia* (Piperaceae) in the Andes with the description of new species in a phylogenetic framework. Plant Ecology and Evolution 144: 148-176. (1.162)

57. RIVERA HERNÁNDEZ, J.E. & **SAMAIN M.S.** (2011). Where has *Aristolochia tricaudata* (Aristolochiaceae) gone? New record of a critically endangered species in Oaxaca, Mexico. Revista Mexicana de Biodiversidad 82: 281-286. (0.493)
58. FEILD, T.S., CHATELET, D.S., UPCHURCH, G.R., BRODRIBB, T.J., KUNSIRI C. GRUBBS, K.C., **SAMAIN, M.S.** & WANKE, S. (2011). Fossil evidence for low capacities to exchange CO_2 and water for Early Cretaceous Angiosperm leaves. Paleobiology 37: 195-213. (2.959)
59. ***SAMAIN, M.S.**, WANKE, S. & GOETGHEBEUR, P. (2010). Unraveling extensive paraphyly in the genus *Hydrangea* s.l. with implications for the systematics of tribe Hydrangeeae. Systematic Botany 35: 593-600. (1.098)
60. ***SAMAIN, M.S.**, VRIJDAGHS, A., HESSE, M. GOETGHEBEUR, P., JIMÉNEZ RODRIGUEZ F., STOLL, A., NEINHUIS, C. & WANKE S. (2010). *Verhuellia* is a segregate lineage in Piperaceae: more evidence from flower, fruit and pollen morphology, anatomy and development. Annals of Botany 105: 677-688. (3.982)
61. ***SAMAIN, M.S.**, VANDERSCHAEVE, L., CHAERLE, P., GOETGHEBEUR, P., NEINHUIS, C. & WANKE, S. (2009). Is morphology telling the truth about the evolution of the giant genus *Peperomia* (Piperaceae)? Plant Systematics and Evolution 280: 251-254. (erratum) (1.361)
62. ***SAMAIN, M.S.**, VANDERSCHAEVE, L., CHAERLE, P., GOETGHEBEUR, P., NEINHUIS, C. & WANKE, S. (2009). Is morphology telling the truth about the evolution of the giant genus *Peperomia* (Piperaceae)? Plant Systematics and Evolution 278: 1-21. (1.361)
63. HORNER, H.T., WANKE, S. & **SAMAIN, M.S.** (2009). Evolution and systematic value of leaf crystal macropatterns in the genus *Peperomia* (Piperaceae). International Journal of Plant Sciences 170: 343-354. (1.536)
64. ***SAMAIN, M.S.**, WANKE, S., MATHIEU, G., NEINHUIS, C. & GOETGHEBEUR, P. (2008). *Verhuellia* revisited – unravelling an intricate taxonomic history and a new subfamilial classification of the Piperaceae. TAXON 57: 583-587. (2.907)
65. MATHIEU, G., **SAMAIN, M.S.**, REYNDERS, M. & GOETGHEBEUR, P. (2008). The *Peperomia* species (Piperaceae) with pseudo-epiphyllous inflorescences. Botanical Journal of the Linnean Society 157: 177-196. (2.523)
66. *WANKE, S., VANDERSCHAEVE, L., MATHIEU, G., NEINHUIS, C., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2007). From forgotten taxon to a missing link? The position of the genus *Verhuellia* (Piperaceae) revealed by molecules. Annals of Botany 99: 1231-1238. (3.982)
67. ***SAMAIN, M.S.**, MATHIEU, G., VANDERSCHAEVE, L., WANKE, S., NEINHUIS, C. & GOETGHEBEUR, P. (2007). Nomenclature and typification of the subdivisional names of the genus *Peperomia* (Piperaceae). TAXON 56: 229-236. (2.907)
68. WANKE, S., JARAMILLO, M.A., BORSCH, T, **SAMAIN, M.S.**, QUANDT, D. & NEINHUIS, C. (2007). Evolution of the Piperales - *matK* and *trnK* intron sequence data reveal lineage specific resolution contrast. Molecular Phylogenetics and Evolution 42: 477-497. (3.792)
69. ***SAMAIN, M.S.**, REYNDERS, M. & GOETGHEBEUR, P. (2006). *Kyllinga beninensis* (Cyperaceae), a new species from Bénin. Novon 16: 516-519. (0.376)
70. WANKE, S., **SAMAIN, M.S.**, VANDERSCHAEVE, L., MATHIEU, G., GOETGHEBEUR, P. & NEINHUIS, C. (2006). Phylogeny of the genus *Peperomia* (Piperaceae) inferred from the *trn*K/*mat*K region (cpDNA). Plant Biology 8: 93-102. (2.216)

8. **PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS** (*=corresponding author)

1. CERVANTES-ESQUIVEL, B., MUÑOZ-MÁRQUEZ, T. R. A., GARCÍA-ALBARADO, J.C., **SAMAIN, M.S.** & ACOSTA, M. F. (2018). Aplicación de una metodología participativa ad hoc, para determinación de necesidades en el proceso de diseño de paisaje de un jardín botánica en Michoacán, México. Agroproductividad 11: 83-88.
2. GOETGHEBEUR, P., DE SMET, Y. GRANADOS MENDOZA, C. & **SAMAIN, M.S**. (2017). Morfologie en fylogenie van het genus *Hydrangea sensu lato* (Hydrangeaceae). Belgische Dendrologie Belge 2016: 49-62.

3. ***SAMAIN, M.S.** & CIRES, E. (2012). Plants for the future – A future for our planet. Towards a protocol for genetic management of ex situ living plant collections. BGJournal 9: 3-6.
4. ***SAMAIN, M.S.** (2012). 'Biocultural diversity conservation: A global sourcebook'. International Journal of Environmental studies 69: 182-184. (reseña de libro)
5. ***SAMAIN, M.S.** (2011). 'Data Mining for Global Trends in Mountain Biodiversity'. International Journal of Environmental studies 68: 240-244. (reseña de libro)

9. PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

1. **SAMAIN, M.S.*** & MARTÍNEZ SALAS, E. (2021). Los centros de origen de las plantas cultivadas. https://elportal.mx/los-centros-de-origen-de-las-plantas-cultivadas/
2. **SAMAIN, M.S.*** & MARTÍNEZ SALAS, E. (2020). El águila real y el pastizal. https://elportal.mx/?p=124038
3. **SAMAIN, M.S.*** & MARTÍNEZ SALAS, E. (2019). Revelando las sorprendentes actividades de la mariposa monarca durante su estancia invernal en México, destacando la importancia del gradiente de vegetación para su sobrevivencia. https://elportal.mx/?p=99933
4. **SAMAIN, M.S.** & MARTÍNEZ SALAS, E. (2015). Hydrangea hunting in the Neotropics. The Plantsman 14 (1): 30-35.
2. ***SAMAIN M.S.** (2014). Hier is de nieuwe classificatie! Een combinatie van morfologie en moleculen.Belgische Dendrologie Belge 2012: 18-24.
3. ***SAMAIN, M.S** (2008). Expeditie *Peperomia*. Deel 2: Bolivië. De Vrienden van de Plantentuin 27: 65-82. (in Dutch)
4. ***SAMAIN, M.S** (2007). Expeditie *Peperomia*. Deel 1: Mexico. De Vrienden van de Plantentuin 26: 134-152. (in Dutch)
5. ***SAMAIN, M.S.** (2005). *Dahlia*, een beknopt botanisch overzicht. De Vrienden van de Plantentuin 24: 45-48. (in Dutch)
6. ***SAMAIN, M. S**. (2004). Een passie voor *Peperomia*! Onze plantentuin: het wereldcentrum van *Peperomia*-onderzoek. De Vrienden van de Plantentuin 23: 69-76. (in Dutch)

10. BOOKS

1. SAMAIN, M.S. (2008). Tackling Pandora's Box. Order out of chaos in the giant genus *Peperomia* (Piperaceae). Ghent University, Belgium: viii + 270 p.

11. TAXONOMIC TREATMENTS

1. **SAMAIN, M.S.** & TEBBS, M.C. (2021). Piperaceae. Flora del Bajío y de regiones adyacentes 215: 71 pp.
2. FONSECA, R.M. & **SAMAIN, M.S.** (2011). *Peperomia*. In: GARCÍA-MENDOZA, A.J. & MEAVE, J.A. (eds.). Diversidad florística de Oaxaca: de musgos a angiospermas (colecciones y lista de especies): 270-271.
3. **SAMAIN, M.S.** & GOETGHEBEUR, P. (2006). Cyperaceae. In: AKOÈGNINOU, A., VAN DER BURG, W.J. & VAN DER MAESEN, L.J.G. (eds.) Flore Analytique du Bénin, Backhuys Publishers, Leiden: 82-121. (en francés)

12. CONGRESS PROCEEDINGS

1. **SAMAIN, M.S.** & DE SMET, Y. (2012). Report on conservation of the genus *Hydrangea.* Report of the Second meeting of the IUCN/SSC Global Tree Specialist Group. Towards a global tree assessment, Annex 1, p. 17-18.

2. **SAMAIN, M.S.**, DUGARDIN, C. & GOETGHEBEUR, P. (2010). *Peperomia* Reference Collection: an *ex situ* living plant collection for scientific research. Fourth Global Botanic Gardens Congress - Papers for Theme 1 - The Global Strategy for Plant Conservation - 2010 and beyond, http://www.bgci.org/files/Dublin2010/papers/Samain-Marie-Stéphanie.pdf

13. IUCN RED LIST ASSESSMENTS

Approximately 800 Red List assessments, mainly of endemic and near endemic Mexican tree species, published on the IUCN Red List, since 2016, and ongoing.

14. RESEARCH PROJECTS

14.1. As Principal Investigator

1. 2007-2010, "Biodiversity and evolution of the giant genus *Peperomia* (Piperaceae)", Research Foundation Flanders, Belgium, 250,000 €.
2. 2009-2013, "Evolution and phylogeny of lianas in *Hydrangea sensu lato* (Hydrangeaceae). A biomechanical, morphological and anatomical study within a molecular phylogenetic framework", Special Research Fund, 175,000 €.
3. 2010-2014, "eXQuiS. Evolution of Chinese *Hydrangea* (Hydrangeaceae), with implications for biodiversity conservation", Research Foundation Flanders, Bélgica, 150,000 €.
4. 2011-2014, "Conservation of *Hydrangea* in Mexico", The Mohamed bin Zayed Species Conservation Fund, 10,000 US $.
5. 2012-2015, "PLAN(E)T. Plants for the future – A future for our planet", Fondation Franklinia, 316620,91 €.
6. 2013, Botanical "Lonesome Georges" of the Andes: systematics of climbing Hydrangeas in Peru, Systematics Research Fund, 1,500 £.
7. 2014, "Genetic diversity and conservation of *Magnolia* in the Lacandon forest, Chiapas, Mexico", Magnolia Society International, 1,800 US $.
8. 2014-2015, "Diversidad y evolución de *Aristolochia* subsección *Pentandrae* (Aristolochiaceae)", CONACYT, Mexico, $ 272,000.
9. 2015-2019, "Flora del Bajío y de regiones adyacentes - Hacia su instalación como Flora electrónica", CONACYT, Mexico, $ 2,145,000.00
10. 2016-2021, "Magnolias of the Caribbean and Mesoamerica", Fondation Franklinia, 546,641.46 €.
11. 2017, "Hacia una posición líder de *Acta Botanica Mexicana* entre las revistas botánicas latinoamericanas", CONACYT, Mexico, $ 127,680.00.
12. 2018-2021, The Mexican tree assessment, Fondation Franklinia, 54,100.00 €
13. 2019-2020, "Hacia una posición líder de *Acta Botanica Mexicana* entre las revistas botánicas latinoamericanas- parte II", CONACYT, Mexico, $ 126,067.00

14.2 As Co-Principal Investigator

1. 2007-2011,"Character evolution in a giant genus: a phylogenetic case study within *Peperomia* (Piperaceae)", German Science Foundation, Germany, 250,000 €.
2. 2008-2011, "Evolution of growth and life forms in Piperales-Combining biomechanical and anatomical approaches with molecular phylogenies", German Science Foundation, Germany, 250,000 €.
3. 2009-2011. "Phylogenetic position and monophyly of two currently unstudied morphological groups in *Peperomia* (Piperaceae)", DAAD, Germany, 10,000 €.

4. 2012-2015, “Erschließung neuer Marktsegmente, Züchtung und Sortengenerierung durch Erweiterung des Genpools bei Hortensien (*Hydrangea*) mittels biotechnologischer Werkzeuge“, Bundesministerium für Bildung und Forschung, Germany, 25,000 €.
5. 2014-2016, “Conservation of *Esenbeckia vazquezii* in Cuernavaca, Morelos, Mexico”, The Mohamed bin Zayed Species Conservation Fund, 14,000 US $.

15. TEACHING EXPERIENCE

15.1 **Main professor or coordinator**

1. Theory

- Curso Internacional de Posgrado “Taxonomía y Evolución vegetal”, Museo de Historia Natural de la Universidad Nacional Mayor de San Marcos, Lima, Perú, 2010, 30 hours (in Spanish).
- “Applied Biodiversity Science: Policy, Management and Conservation”, Ghent University (Belgium), 2011-2012, each year 8 hours (in English).
- “Tropical Botany”, Ghent University (Belgium), 2012, 60 hours (in Dutch)
- Introductory course for future guides of the Ghent University Botanical Garden, 2012, 18 hours (in Dutch)
- “Diversidad y clasificación de Angiospermas, según APGIII”, Jardín Botánico del Parque de las Leyendas de la Municipalidad Metropolitana de Lima, Peru, 2013, 18 hours (in Spanish).
- “Taxonomía de Angiospermas”, Universidad Indígena Intercultural de Michoacán, licenciatura en desarrollo sustentable, 2015, 30 hours. (in Spanish).

2. Practicals

- Practical exercises of plant diversity, identification, morphology and anatomy, Ghent University (Belgium), 2003-2012, each year between 100 and 120 hours (in Dutch)

15.2 **Invited professor or assistant**

1. Theory

- Biology of Angiosperms, class about basal angiosperms, 2021, 4 hours (in Spanish).
- Occasional classes in other courses about angiosperm systematics, morphology and anantomy, Ghent University (Belgium), 2003-2012, each year about 5 hours (in English or Dutch).

2. Practicals

- Practical excercises about introduction to botany, Ghent University (Belgium), 2003-2009, each year about 80 hours (in Dutch).

16. STUDENT (CO-)SUPERVISION

16.1 Bachelor

1. Robrecht DIERCK (2009). Vergelijking van twee DNA-extractiemethoden bij Bloemplanten: CTAB versus Qiagen DNeasy Plant Minikit, Ghent University, Belgium.
2. Johanna BREYNE (2010). WiSiWiS-bis (Waar Staat Welke Soort), Ghent University, Belgium.

16.2 Master

1. Frederik FOULON (2006-2007). Fylogenie en evolutie van een reuzengenus: anatomische studie van stengels, bladeren, bloeiwijzen en vruchten van *Peperomia* (Piperaceae), Ghent University, Belgium.
2. Isabelle DE GRAEVE (2005-2006): Fylogenie van het genus *Peperomia* (Piperaceae): vruchtmorfologie, Ghent University, Belgium.
3. Yannick DE SMET (2009-2010). Soort zkt. Grens. *Epimedium* (Berberidaceae), Soorten Zonder Grenzen, Ghent University, Belgium.
4. Dorien SCHOUPPE (2010-2011). Inventory of Piperales in the Los Tuxtlas Biosphere Reserve, Veracruz, Mexico, Ghent University, Belgium.
5. Emma SCHEIRIS (2011-2012). *Peperomia* (Piperaceae) in the Yanachaga-Chemillén National Park in Peru, Ghent University, Belgium.
6. Ana Gabriela ZACARÍAS CORREA (2013-2015). Filogenia molecular, evolución y taxonomía de *Penstemon* sección *Fasciculus* (Plantaginaceae), Instituto de Ecología, A.C., Mexico.
7. Sebastian MÜLLER (2014-2015). Anchored hybrid gene enrichment illuminates molecular phylogeny of *Aristolochia* (Aristolochiaceae) and first insights into subsection *Pentandrae*. Tesis de Maestría, Technische Universität Dresden, Germany.
8. Anna PAIZANNI GUILLÉN (2014-2016). Diversidad, taxonomía y filogenia del género *Aristolochia* (Aristolochiaceae) subsección *Pentandrae*. Universidad Michoacana de San Nicolás de Hidalgo, Mexico.
9. Juan Manuel RAMÍREZ AMEZCUA (2014-2016). Revisión taxonómica del género *Piper* (Piperaceae) en la Región Lacandona, Chiapas, México. Universidad Michoacana de San Nicolás de Hidalgo, Mexico.
10. Ruud MERKX (2016-2017). Contributing to the conservation of some Mexican Magnolias: a SSR marker analysis, Ghent University, Belgium.
11. Salvador GUZMÁN DÍAZ (2017-2019). Sistemática y relaciones filogenéticas de las especies mexicanas del género *Russelia* (Plantaginaceae). Instituto de Ecología, A.C., Mexico.
12. Dagoberto VALENTÍN MARTÍNEZ (2018-2020). Estimación de la distribución de las especies arbóreas de la familia Solanaceae en México para su inclusión en la Lista Roja de la UICN. Universidad Michoacana de San Nicolás de Hidalgo, Mexico.
13. Fabian Augusto ALDABA NUÑEZ (2018-2020). Sistemática, diversidad genética y conservación de *Magnolia* en Veracruz, México. Instituto de Ecología, A.C., Mexico.
14. Tim CLAERHOUT (2020-2021). Conservation genetics of Magnolia in the Dominican Republic. Ghent University, Belgium.

16.3 PhD

1. Carolina GRANADOS MENDOZA (2009-2013). “Tree top climbing. Towards an evolutionary tree of *Hydrangea* section *Cornidia*”, Ghent University, Belgium.
2. Do VAN TRUONG (2011-2015). Systematics and Evolution of *Aristolochia* (Aristolochiaceae) from Vietnam and adjacent areas. Technische Universität Dresden, Germany.
3. Lena FRENZKE (2010-2016). Fruit morphology and its implications in the big plant genus Peperomia Ruiz & Pav. (Piperaceae), Technische Universität Dresden, Germany.
4. Ana Gabriela ZACARÍAS CORREA (2015-2019). “Diversificación, filogeografía y conservación del género *Penstemon* sección *Fasciculus* (Plantaginaceae)”. Instituto de Ecología, A.C., Mexico.
5. Emily VELTJEN (2014-2020). The Caribbean *Magnolia* species (Magnoliaceae): assessment of the genetic diversity and the underlying evolutionary history. Ghent University, Belgium.
6. Yannick DE SMET (2010-2020). Through the fog: evolutionary insights provide novel genus and species level boundaries in tribe Hydrangeeae and genus *Hydrangea*. Ghent University, Belgium.

7. Salvador GUZMÁN DÍAZ (2019-2023). Biogeografía histórica y ecológica de las especies neotropicales de Magnolia (Magnoliaceae). Instituto de Ecología, A.C., Mexico.
8. Fabián Augusto ALDABA NUÑEZ (2020-2024). Evolución, taxonomía y relaciones filogenéticas de las especies neotropicales de Magnolia. Instituto de Ecología, A.C., Mexico.

16.4. Social service, academic stays, apprenticeships, etc.

1. Zaira ALEJANDRE OLGUIN – Universidad Michoacana de San Nicolas de Hidalgo (2018-2019).
2. Efraín SALAS ESPINOSA – Instituto Tecnológico de Coalcomán (2016-2017).
3. Benjamín Samuel CASTILLO PONCE – Universidad Intercultural Indígena de Michoacán (2014-2015).
4. Yaneth PIZÁ MORALES – Universidad Michoacana de San Nicolas de Hidalgo (2015).
5. Oana Otilia SARACUTU – Romania (2011-2012): Population studies of the genus *Hydrangea* in Chile.
6. Daniela VERGARA RODRÍGUEZ – México (2011): Sistemática, taxonomía y biodiversidad del género *Peperomia* (Piperaceae) (10 créditos en Posgrado en Ecología Tropical, Centro de Investigaciones Tropicales, Universidad Veracruzana), preparación de checklist del género *Peperomia* para el estado de Veracruz. (estancia durante su maestría)
7. Valery Noumi NOIHA – Camerún (2011): Aprendizaje de técnicas moleculares y microscópicos en el marco de su tésis de doctorado sobre *Peperomia* y *Piper* en África. (estancia durante su doctorado)
8. Eduardo CIRES RODRÍGUEZ – España (2010): Genetic structure of the critically endangered species *Cochlearia pyrenaica* (Brassicaceae). (estancia durante su doctorado)
9. José Carlos MORENO CHACÓN – España (2009-2010): How to manage a scientific collection? A case-study of *Peperomia*" (Erasmus practicum)
10. Lars SYMMANK – Alemania (2006): Making interactive keys for *Peperomia* (individuele contacten tussen professoren, in het kader van de samenwerking met de TU Dresden)
11. Roxane VASILE – Rumania (2006): NeMys (Erasmus)
12. Bircan TELLI – Turquía (2006): Systematics of flowering plants I (Erasmus)
13. Okan GENÇ & Damila KOLDAKOÇ – Turquía (2006): Studies in *Peperomia* (Piperaceae): morphology and anatomy (Erasmus)
14. Okan GENÇ & Damila KOLDAKOÇ – Turquía (2005): Seed plants (Erasmus)
15. Hasan AYDIN & Sennur KIRIMIOGLU – Turquía (2005): Studies in *Peperomia* (Piperaceae): technical aspects of morphological and anatomical research (Erasmus)
16. Ľuboš MAJESKÝ – Eslovaquia (2005): Studies in *Peperomia* (Piperaceae): insights from morphological and molecular approaches (Erasmus)

16.5. Participation in tutorial committees

1. Carlos Alonso MAYA LASTRA, Instituto de Ecología, A.C., Mexico, Master, 2012-2014.
2. Angélica CHÁVEZ CORTÁZAR, Instituto de Ecología, A.C., Mexico, PhD, 2013-2017.
3. Duhyadi OLIVA GARCÍA, Universidad Nacional Autónoma de México, Mexico, Master, 2013-2015.
4. María Magdalena AYALA HERNÁNDEZ, Universidad Nacional Autónoma de México, Mexico, PhD, 2017-2021.
5. Claudia Marysol RAMÍREZ DÍAZ, Universidad Nacional Autónoma de México, Mexico, PhD, 2019-2023.

16.6. Participation as jury in thesis exams

1. María Magdalena AYALA HERNÁNDEZ (2019, 2020). Sistemática de Asparagaceae, en especial Agavoideae, enfatizando su evolución y clasificación, a partir de diferentes técnicas y aproximaciones utilizadas; sinapomorfías, homoplasias y futuros estudios que ayuden a resolver la clasificación de la subfamilia. Universidad Nacional Autónoma de México, Mexico.

2. Eurídice TINOCO DOMÍNGUEZ (2018). Revisión taxonómica de la familia Anacardiaceae para el estado de Veracruz, México. Instituto de Ecología, A.C., Mexico.
3. Silvia ZUMAYA MENDOZA (2017). Variación del xilema secundario en especies del género Iresine (Amaranthaceae) y su relación con el hábito y el ambiente: implicaciones evolutivas. Universidad Nacional Autónoma de México, Mexico.
4. María del Rosario Lucía REDONDA MARTÍNEZ (2016). Relaciones filogenéticas de la subtribu Leiboldiinae H. Rob. (Tribu Vernonieae, Familia Asteraceae) con base en caracteres morfológicos. Universidad Nacional Autónoma de México, Mexico.
5. Sebastian MÜLLER (2015). Anchored hybrid gene enrichment illuminates molecular phylogeny of *Aristolochia* (Aristolochiaceae) and first insights into subsection *Pentandrae*. TU Dresden, Germany.
6. Do VAN TRUONG (2015). Systematics and Evolution of *Aristolochia* (Aristolochiaceae) from Vietnam and adjacent areas. TU Dresden, Germany.
7. Silvia ZUMAYA MENDOZA, Universidad Nacional Autónoma de México, examen predoctoral, marzo 2015.
8. Katja BUCHWALDER, Technische Universität Dresden, Germany, 2014.
9. Carolina GRANADOS MENDOZA, Ghent University, Belgium, 2013.
10. Daniela VERGARA RODRÍGUEZ, Universidad Veracruzana, Centro de Investigaciones Tropical, Xalapa, 2013.
11. Kenneth BAUTERS, Ghent University, Belgium, 2011.
12. Dorien SCHOUPPE, Ghent University, Belgium,2011.
13. Eduardo CIRES RODRÍGUEZ, Universitad de Oviedo, Spain, 2011.
14. Tamara BRAECKMAN, Ghent University, Belgium, 2010.
15. Bram VEKEMAN, Ghent University, Belgium, 2009.

17. PARTICIPATION IN CONGRESSES AND SYMPOSIA

1. **SAMAIN, M.S** & MARTÍNEZ SALAS, E.M. (2021). Diversidad y conservación del género *Hydrangea* (Hydrangeaceae) en el Perú. IV Simposio Avances en Biodiversidad y Conservación en el Perú, virtual symposium, Museo de Historia Natural, Lima, Perú, February 2021.
2. **SAMAIN, M.S.**, DOLORES FUENTES, A.C., MARTÍNEZ SALAS, E.M. (2020). Progress with Red Listing in Mexico. Crafting gardens for a changing world, virtual congress, June 2020.
3. **SAMAIN, M.S.**, PAHUA TINOCO, M.J., OSEGUERA FIGUEROA, L., VARGAS LUNA, M.D., PIÑA BEDOLLA, D., SÁNCHEZ-KEN, J.G. & HERNÁNDEZ-LEDESMA, P. (2019). Presentación del proyecto flora electrónica del Bajío y regiones adyacentes de México (e-flora), primera flora electrónica del país. XXI Congreso Mexicano de Botánica, Aguascalientes, 20-25 octubre 2019.
4. **SAMAIN, M.S.**, SÁNCHEZ-KEN, J.G. & MARTÍNEZ SALAS, E. (2019). Avances en el conocimiento de las angiospermas basales en México. XXI Congreso Mexicano de Botánica, Aguascalientes, 20-25 octubre 2019.
5. **SAMAIN, M.S.**, WALTER, H. GUERRERO, P. & LARRIDON I. (2019). Un enfoque integrador para comprender la evolución y la diversidad de *Copiapoa* (Cactaceae), un género amenazado del desierto costero de Chile. IV Congreso Nacional de Cactáceae y Suculentas, Ica, Perú, 14-16 octubre 2019.
6. **SAMAIN, M.S.** (2019). Filogenia y clasificación infragenérica de *Peperomia* (Piperaceae) como herramienta para futuros estudios en el género. IV Congreso Nacional de Cactáceae y Suculentas, Ica, Perú, 14-16 octubre 2019.
7. **SAMAIN, M.S.**, FRENZKE, L. & WANKE, S. (2018). ¿Qué hace un gigante tan gigante? Flexibilidad de forma de vida y capacidad de dispersión como disparadores de altos niveles de especiación en *Peperomia* (Piperaceae). XII Congreso Latinoamericano de Botánica. Quito, Ecuador. 21-28 octubre 2018.
8. **SAMAIN, M.S.**, FRENZKE, L. & WANKE, S. (2018). La clasificación infragenérica de *Peperomia* (Piperaceae) como herramienta para futuros estudios en el género. XII Congreso Latinoamericano de Botánica. Quito, Ecuador. 21-28 octubre 2018.

9. VELTJEN, E., PALMAROLA BEJERANO, A., ASSELMAN, P., LARRIDON, I., CLAEYS, K., LEROUX, O., HERNÁNDEZ RODRÍGUEZ, M., TESTÉ LOZANO, E., GONZÁLEZ TORRES, L.R., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2018). The genetic diversity of the Caribbean Magnolias (Magnoliaceae). XII Congreso Latinoamericano de Botánica. Quito, Ecuador. 21-28 octubre 2018.
10. VELTJEN, E., VÁZQUEZ, GARCÍA, A., PALMAROLA BEJERANO, A., ASSELMAN, P., HERNÁNDEZ RODRÍGUEZ, M., TESTÉ LOZANO, E., GONZÁLEZ TORRES, L.R., NEIL, D., GOETGHEBEUR, P., KIM, S., FIGLAR, R., **SAMAIN, M.S. &** LARRIDON, I. (2018). Uniting morphological, taxonomical, field expertise and sequence data: Phylogenomics of Neotropical Magnolias (Magnoliaceae). XII Congreso Latinoamericano de Botánica. Quito, Ecuador. 21-28 octubre 2018.
11. WANKE, S., GRANADOS MENDOZA, C., MÜLLER, S., PAIZANNI GUILLÉN, A., NEINHUIS, C., LEMMON, A.R., MORIARTY LEMMON, E. & **SAMAIN, M.S.** (2017). Recalcitrant deep and shallow nodes in Aristolochia (Aristolochiaceae) illuminated using anchored hybrid enrichment. Botany 2017, Fort Worth, Texas, USA.
12. VELTJEN, E., TORRES SANTANA C., DUGARDIN, C., LARRIDON, I., SAMAIN, M.S. & GOETGHEBEUR, P. (2017). Genetically targeted ex situ collections and in situ reintroduction. 6th Global Botanic Gardens Congress, Geneva, Switzerland.
13. VELTJEN, E., ASSELMAN, P., LARRIDON, I., **SAMAIN, M.S.** & GOETGHEBEUR, P. (2016). First steps towards conservation of the Caribbean Magnoliaceae Third Annual Meeting on Plant Ecology and Evolution, Ghent University, Bélgica.
14. HERNÁNDEZ RODRÍGUEZ, M., PALMAROLA BEJERANO, A., GONZÁLEZ TORRES, L.R., SAMAIN, M.S., VELTJEN, E. & ASSELMAN, P. (2016). Caracterización de la diversidad genética de *Magnolia cubensis*, una especie cubana en peligro de extinción. Convención Trópico 2016, La Habana, Cuba.
15. ZACARÍAS-CORREA, A.G., PÉREZ CALIX, E., WOLFE, A.D. & **SAMAIN, M.S.** (2016). Diversidad y distribución del género *Penstemon* (Plantaginaceae) en México, XX Congreso Mexicano de Botánica.
16. PAIZANNI GUILLÉN, G., RAMÍREZ AMEZCUA, J.A., MÜLLER, S., MONTERO CASTRO, J.C., WANKE, S. & **SAMAIN, M.S.** (2016). Diversidad, taxonomía y filogenia del género *Aristolochia* subsección *Pentandrae*. XX Congreso Mexicano de Botánica.
17. RAMÍREZ AMEZCUA, J.A., **SAMAIN, M.S.** & MONTERO CASTRO, J.C. (2016). Revisión taxonómica del género *Piper* (Piperaceae) en la región Lacandona de Chiapas, México. XX Congreso Mexicano de Botánica.
18. MAYORAL LOERA, P., PIÑA BEDOLLA, D. & **SAMAIN, M.S.** (2016). Acta Botanica Mexicana, una revista científica en evolución. XX Congreso Mexicano de Botánica.
19. **SAMAIN, M.S.**, PAHUA TINOCO, M.J., OSEGUERA FIGUEROA, L., BEDOLLA GARCÍA, B.Y., MAYORAL LOERA, P.Y. & PÉREZ CALIX, E. (2016). Hacia la primera Flora Electrónica de México – El desarrollo de la e-Flora del Bajío y de Regiones Adyacentes. XX Congreso Mexicano de Botánica.
20. VELTJEN, E., PALMAROLA BEJERANO, A., ASSELMAN, P., HERNANDEZ RODRIGUEZ, M., GONZÁLEZ TORRES, L.R., LARRIDON, I., **SAMAIN, M.S.** & GOETGHEBEUR, P. (2016). Conserving the *Magnolia* diversity of the Caribbean: progress and prospects. Third International Symposium on the family Magnoliaceae. Varadero, Cuba.
21. **SAMAIN, M.S.**, GONZÁLEZ TORRES, L.R., MARTÍNEZ SALAS, E.M., OLDFIELD, S., VELTJEN, E., ASSELMAN, P., LARRIDON, I. & GOETGHEBEUR, P. (2016). Towards conservation of *Magnolia* section *Talauma* in the Caribbean and Mesoamerica. Third International Symposium on the family Magnoliaceae. Varadero, Cuba.
22. **SAMAIN, M.S.** & MARTÍNEZ SALAS, E.M. (2015). Progress with Red Listing Hydrangeaceae. IUCN/SSC Global Tree Specialist meeting, Morton Arboretum, Lisle, Illinois, USA.
23. ZACARIAS-CORREA, A.G., WENZEL, A.J., BLISCHAK, P., WOLFE, A., PÉREZ-CALIX, E. & **SAMAIN, M.S.** (2015). Molecular phylogeny of *Penstemon* section *Fasciculus* (Plantaginaceae) based on single copy orthologous genes (COSII). Botany 2015, Edmonton, Canada.

24. GRANADOS MENDOZA, C., ISNARD, S., CHARLES-DOMINIQUE, T., VAN DEN BULCKE, J., VAN ACKER, J., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2015). Bouldering: an alternative strategy to long-vertical climbing in root-climbing hortensias. Botany 2015, Edmonton, Canada.
25. LARRIDON, I., WALTER, H., GUERRERO, P. & **SAMAIN, M.S.** (2015). An integrative approach to understanding the evolution and biodiversity of *Copiapoa* (Cactaceae), a threatened genus from Chile's coastal desert. Botany 2015, Edmonton, Canada.
26. **SAMAIN, M.S.**, GRANADOS MENDOZA, C., HERNÁNDEZ NAJARRO F., RIVERA CAMAÑA, R., CISTERNAS BÁEZ, M. & MARTÍNEZ SALAS, E.M. (2014). Diversidad y conservación del género *Hydrangea* (Hydrangeaceae) en el Neotrópico. XI Congreso Latinoamericano de Botánica, Salvador, Bahía, Brasil.
27. MURILLO, MARTÍNEZ, R.M., PIÑA BEDOLLA, D. & **SAMAIN, M.S.** (2014). Las revistas científicas botánicas en América Latina: Acceso Abierto y difusión del conocimiento. XI Congreso Latinoamericano de Botánica, Salvador, Bahía, Brasil.
28. OLIVA GARCÍA, M.D., GERNANDT, D.S., MARTÍNEZ SALAS, E.M. & **SAMAIN, M.S.** (2014). Diversidad genética y conservación de *Magnolia* L. en la región Lacandona, Chiapas, México, XI Congreso Latinoamericano de Botánica, Salvador, Bahía, Brasil.
29. HORNER, H.T., **SAMAIN, M.S.** & WANKE, S. (2014). Looking through the windows of the window Peperomias: a crystal-clear view. Botany 2014, Boise, USA.
30. GRANADOS MENDOZA, C., NAUMANN, J., **SAMAIN, M.S.**, GOETGHEBEUR, P., DE SMET, Y. & WANKE, S. (2014). On the hunt for rapidly-evolving nuclear single- or low copy loci to address shallow-scale phylogenetics in *Hydrangea* section *Cornidia*. Botany 2014, Boise, USA.
31. DE SMET, Y., LARRIDON, I., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2014). Know your limits: the importance of species and generic boundaries for conservation. In: 3rd Science in Botanic Gardens Congress. 1-4 April 2014. Abstracts. Iltmo. Gabinete Literario de Las Palmas de Gran Canaria – Islas Canarias – España. 23 p.
32. LARRIDON, I., ASSELMAN, P., GOETGHEBEUR, P. & **SAMAIN M.S.** (2014). A future for cacti? Case study of the Chilean genus Copiapoa. In: 3rd Science in Botanic Gardens Congress. 1-4 April 2014. Abstracts. Iltmo. Gabinete Literario de Las Palmas de Gran Canaria – Islas Canarias – España. 23 p.
33. FRENZKE, L., **SAMAIN, M.S.**, SYMMANK, S., GOETGHEBEUR, P., NEINHUIS, C. & WANKE, S. (2014). Evolution of fruit structures correlates with species richness and transition to epiphytism in *Peperomia*. BioDivEvo 2014, Dresden, Alemania.
34. **SAMAIN, M.S.**, HERNÁNDEZ NAJARRO, F. & MARTÍNEZ SALAS, E.M. (2013). Diversidad y conservación del género *Hydrangea* (Hydrangeaceae) en México. XIX Congreso Mexicano de Botánica, Tuxtla Gutiérrez, Chiapas, Mexico.
35. HORNER, H.T., **SAMAIN, M.S.** & WANKE, S. (2013).Towards unraveling leaf crystal macropatterns among Piperales lineages. Botany 2013, New Orleans, USA.
36. GRANADOS MENDOZA, C., WANKE, S, GOETGHEBEUR, P. & **SAMAIN, M.S**. (2013). Facilitating wide hybridization in Hydrangea s.l. cultivars: a phylogenetic and marker-assisted approach. Botany 2013, New Orleans, USA.
37. GRANADOS MENDOZA, C., WANKE, S., SALOMO, K., GOETGHEBEUR, P. & **SAMAIN, M.S**. (2013). First application of the phylogenetic informativeness method to chloroplast markers: A test case of closely related species in tribe Hydrangeeae (Hydrangeaceae). Botany 2013, New Orleans, USA.
38. LARRIDON, I., **SAMAIN, M.S**, SHAW, K., OLDFIELD, S. & GOETGHEBEUR, P.(2013). Towards a protocol for management of genetic variation of *ex situ* living cactus collections. 10th IOS Inter-Congress Meeting International Organization for Succulent Plant Study, Berlin, Germany.
39. **SAMAIN, M.S**, NAUMANN, J., PINO, G., GOETGHEBEUR, P., & WANKE, S. (2013). Diversity and evolution of succulent Peperomias (Piperaceae) from the Neotropics. 10th IOS Inter-Congress Meeting International Organization for Succulent Plant Study, Berlin, Germany.
40. DE SMET, Y., SAMAIN, M.S., GOETGHEBEUR, P. (2012). Applying the General Lineage Concept of species to Asian *Hydrangea*. 1st annual meeting on plant ecology and evolution, National Botanic Garden of Belgium.

41. **SAMAIN, M.S.**, CIRES, E., LARRIDON, I., OLDFIELD, S. & GOETGHEBEUR, P. (2012). Towards a protocol for management of genetic variation of ex situ living plant collections. 1st annual meeting on plant ecology and evolution, National Botanic Garden of Belgium.
42. GRANADOS MENDOZA, C., WANKE, S., SALOMO, K., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2012). Application of the phylogenetic informativeness method to chloroplast markers: a test case of closely related species in tribe Hydrangeeae (Hydrangeaceae). 1st annual meeting on plant ecology and evolution, National Botanic Garden of Belgium.
43. CIRES, E., DE SMET, Y., CUESTA, C., GOETGHEBEUR, P., SHARROCK, S., GIBBS, D., OLDFIELD, S., KRAMER, A. & **SAMAIN, M.S.** (2012). Gap analyses to support ex situ conservation of genetic diversity in *Magnolia*, a flagship group. 1st annual meeting on plant ecology and evolution, National Botanic Garden of Belgium.
44. HORNER, H.T., WANKE, S., & **SAMAIN, M.S.** (2012). The world's smallest bio-inspired light reflectors: are the internal leaf crystals important to species of *Peperomia* and *Piper* (Piperaceae) growing in low-light-intensity environments? Botanical Society of America Meeting, Columbus, Ohio, USA.
45. **SAMAIN, M.S.**, DUGARDIN, C. & GOETGHEBEUR P. (2012). Towards a protocol for management of genetic variation of *ex situ* living plant collections. Sixth European Botanic Gardens Congress (*EUROGARD* VI), Chios, Greece.
46. **SAMAIN, M.S.**, SALOMO, K., SMITH, J.F., DAVIDSON, C., ZIMMERS, J., FEILD, T., NEINHUIS, C. & WANKE, S. (2011). Molecular Evolutionary History of Early Branching Angiosperms. 18th International Botanical Congress – Melbourne, Australia.
47. HORNER, H.T., RUCHTI, T., YOON, H. & **SAMAIN, M.S.** (2011). Differences in leaf anatomies and crystal macropatterns between the species-rich sister genera *Peperomia* and *Piper* (Piperaceae). Botany 2011 – Saint Louis, Missouri, USA.
48. GRANADOS, C., BALLESTEROS-BARRERA, C., GOETGHEBEUR, P. & **SAMAIN M.S.** (2010). Estado de conservación de *Hydrangea seemannii* L. Riley (Hydrangeaceae): una inferencia basada en el modelado del nicho ecológico. X Latin American Botanical Congress – La Serena, Chile.
49. **SAMAIN, M.S.**, SYMMANK , L., PINO INFANTE, G., GOETGHEBEUR, P., NEINHUIS, C. & WANKE, S. (2010). Hacia la resolución de un rompecabezas gigante. Evolución, biogeografía y sistemática de *Peperomia* (Piperaceae), uno de los mas grandes géneros de angiospermas. X Latin American Botanical Congress, Symposium "La biología de los linajes más ancestrales de angiospermas" – La Serena, Chile (invited speaker; in Spanish).
50. GRANADOS, C., BALLESTEROS-BARRERA, C., GOETGHEBEUR, P. & **SAMAIN M.S.** (2010). Conservation status of *Hydrangea seemannii* L. Riley (Hydrangeaceae) in Mexico: an inference based on ecological niche modelling. International Symposium on Botanical Diversity: exploration, understanding and use, National Botanic Garden of Belgium.
51. DE SMET, Y. , GOETGHEBEUR, P. & **SAMAIN, M.S.** (2010). Boundary conflicts: *Epimedium* (Berberidaceae), species without boundaries? International Symposium on Botanical Diversity: exploration, understanding and use, National Botanic Garden of Belgium.
52. CIRES, E., FERNÁNDEZ PRIETO, J.A., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2010). Genetic structure of the endangered species *Cochlearia pyrenaica* (Brassicaceae). International Symposium on Botanical Diversity: exploration, understanding and use, National Botanic Garden of Belgium.
53. **SAMAIN, M.S**, GRANADOS MENDOZA, C., DE SMET, Y. & GOETGHEBEUR, P. (2010). Recent Belgian plant hunting for new goals. International Symposium on Botanical Diversity: exploration, understanding and use, National Botanic Garden of Belgium.
54. SIMON, J., SYMMANK, L., **SAMAIN, M.S.**, MÜLLER, K.F., NEINHUIS, C, DEPAMPHILIS, C.W. & WANKE, S. (2010). Chasing the hare – Evaluating the utility of a nuclear single copy gene region for evolutionary biological questions at and below the species level. Botany 2010, Providence, Rhode Island, USA.
55. **SAMAIN, M.S.**, DUGARDIN, C & GOETGHEBEUR P. (2010). *Peperomia* Reference Collection: an *ex situ* living plant collection for scientific research. 4th Global Botanic Gardens Congress, Dublin, Ireland.

56. **SAMAIN, M.S.**, VRIJDAGHS, A., HESSE, M., GOETGHEBEUR, P., JIMÉNEZ RODRIGUEZ, F. STOLL, A., NEINHUIS, C. & WANKE, S. (2009). The story of *Verhuellia* (Piperaceae): A multidisciplinary study integrating morphology, anatomy, development, molecular data and taxonomy. Young Botanists Day 2009 - ULB, Brussels, Belgium.
57. **SAMAIN, M.S.,** SYMMANK , L., MATHIEU, G., NEINHUIS, C., GOETGHEBEUR, P. & WANKE, S. (2009). Towards completion of a giant puzzle. Evolution, systematics and taxonomy of the genus *Peperomia* (Piperaceae), one of the largest angiosperm genera. VII International Congress of Systematic and Evolutionary Biology – Veracruz, Mexico (congress cancelled).
58. **SAMAIN, M.S.**, NEINHUIS, C., WANKE, S. & GOETGHEBEUR, P. (2008). *Verhuellia*, from forgotten taxon to a missing link in the evolution of the family Piperaceae. 12th Evolutionary Biology Meeting – Marseilles, France (invited speaker).
59. SYMMANK, L., **SAMAIN, M.S.**, GOETGHEBEUR, P., MATHIEU, G., NEINHUIS, C. & WANKE, S. (2008). Evolution of terrestrial life forms in the genus *Peperomia* (Piperaceae). Botany 2008 - Vancouver, Canada.
60. **SAMAIN, M.S.,** SYMMANK , L., MATHIEU, G., NEINHUIS, C., GOETGHEBEUR, P. & WANKE, S. (2008). Evolution of terrestrial life forms in the genus *Peperomia* (Piperaceae): a result of orogeny of the Andes and the Sierra Madre, or radiation out of ice age refugia? Xth Symposium of the International Organisation of Plant Biosystematists – Strbske Pleso, Vysoké Tatry Mountains, Slovakia.
61. HORNER, H., WANKE, S. & **SAMAIN, M.S.** (2008). Leaf calcium oxalate crystal macropatterns and their role in plant systematics and phylogeny: with special emphasis on *Peperomia* (Piperaceae). Systematics 2008, Piperales workshop – Göttingen, Germany.
62. MATHIEU, G., GOETGHEBEUR, P., WANKE, S. & **SAMAIN, M.S.** (2008). WWW based digital taxonomic tools, center pieces in the multidisciplinary approach of elucidating evolution and systematics of the giant genus *Peperomia* (Piperaceae). Systematics 2008, Piperales workshop – Göttingen, Germany.
63. SYMMANK, L., **SAMAIN, M.S.**, GOETGHEBEUR, P., MATHIEU, G., NEINHUIS, C. & WANKE, S. (2008). Independent evolution of different terrestrial life forms in the genus *Peperomia* (Piperaceae) and implications for biogeography of the tuberous species. Systematics 2008, Piperales workshop – Göttingen, Germany.
64. WANKE, S., VANDERSCHAEVE, L., MATHIEU, G., NEINHUIS, C., GOETGHEBEUR, P. & **SAMAIN, M.S.** (2007) From forgotten taxon to a missing link? Molecules reveal the position of the genus *Verhuellia* (Piperaceae). Plant Biology 2007 and Botany 2007 Joint Congress – Chicago, USA.
65. HORNER, H., WANKE, S. & **SAMAIN, M.S.** (2007) Leaf crystal macropatterns versus phylogeny: comparison of these two diverse approaches in the genus *Peperomia* (Piperaceae) Plant Biology 2007 and Botany 2007 Joint Congress – Chicago, USA.
66. **SAMAIN, M.S.**, VANDERSCHAEVE, L., NEINHUIS, C., GOETGHEBEUR, P. & WANKE, S. (2006). Is morphology telling the truth about the evolution of the giant genus *Peperomia* (Piperaceae)? 17th International symposium Biodiversity and Evolutionary Biology – Bonn, Germany.
67. COCQUYT, C., JAHN, R. & **SAMAIN, M.S.** (2006). Radiation and speciation in the East African Ancient Lakes: a cladistic approach based on the diatom family Surirellaceae. 4th International Symposium on Speciation in Ancient Lakes (SIAL) – Berlin, Germany
68. **SAMAIN, M.S.**, WANKE, S. & GOETGHEBEUR, P. (2006). From a poorly known clade to a model group - The giant genus *Peperomia* (Piperaceae). 11th Nordic Meeting on Neotropical Botany – Aarhus, Denmark.
69. **SAMAIN, M.S.**, VANDERSCHAEVE, L., MATHIEU, G. & WANKE, S. (2005). Studies in *Peperomia* (Piperaceae): insights from molecular and morphological approaches. 17th International Botanical Congress – Vienna, Austria.