# Ana L. Caicedo

University of Massachusetts
Biology Department
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## PROFESSIONAL EXPERIENCE

**Associate Professor**
Biology Department, University of Massachusetts
Amherst, MA, September 2012-present

**Visiting Professor**
Max Planck Institute for Developmental Biology
Tübingen, Germany, January 2020-June 2020

Departamento de Ciencias Biológicas, Universidad de los Andes
Bogotá, Colombia, November 2012-May 2013

**Assistant Professor**
Biology Department, University of Massachusetts
Amherst, MA, September 2006-2012

**Post Doctoral Researcher**
Department of Genetics, North Carolina State University
Raleigh, NC, March 2003-August 2006
Supervisor: Michael D. Purugganan

## EDUCATION

Ph.D. in Evolutionary Biology
Washington University, St. Louis, MO, January 2003
Evolution, Ecology, and Population Biology Program
Doctoral dissertation: "Molecular Evolution and Population Genetics of a Disease Resistance Locus in *Solanum pimpinellifolium*."
Advisor: Dr. Barbara A. Schaal

B.Sc. in Biology
Universidad de los Andes, Bogotá, Colombia, August 1996
Department of Biology
Thesis: "Molecular Characterization of Wild South American *Phaseolus* Species Using AFLPs"
Advisor: Dr. Joe Tohme

## AWARDS AND HONORS

- **Alexander von Humboldt Foundation Research Award**, 2020.
- **Catherine M. Lieneman Scholarship in Botany**, Washington University, 2000 and 2002.
- **Howard A. Schneiderman Fellowship**, Washington University, 1996.
- **Colciencias Fellowship**. Colombian Institute for the Development of Science and Technology. Bogotá, Colombia. July 1996. I declined this award.
- **Lilly Teaching Fellowship.** University of Massachusetts, 2008-2009.

## FUNDING

**NSF Plant Genome Research Program (IOS-1947609):** RESEARCH-PGR: Characterizing the genomic basis of weedy rice competitiveness." PI: Kenneth M. Olsen; Co-PIs: **Ana L. Caicedo**, Yulin Jia, Christopher Topp. Amount: $2,560,467; $728,538 to Caicedo Lab. March 2020-February 2023

**Integrated Research and Extension Proposal – UMass Center for Food, Agriculture, and the Environment (CAFÉ): "**Documenting the genetic variation of dodder species in Massachusetts cranberry bogs to optimize efficacy of dodder management". PIs: **Ana L. Caicedo** and Hilary Sandler. Amount: $40,000. January-March 2020; $30,000 addition to March 2021.

**Massachusetts Agricultural Experiment Station – Hatch (National Institute of Food and Agriculture; MAS00534): "**Harnessing natural variation in the crop model grass *Brachypodium distachyon* to elucidate microbial associations that improve plant growth". PI: **Ana L. Caicedo**; Co-PIs: Samuel P. Hazen, Ludmila Tyler. Amount: $27,000. October 2018-September 2021.

**NSF Plant Genome Research Program (IOS-1444539):** "Exploitation of genetic and epigenetic variation in the regulation of tomato fruit quality traits". PI: Esther Van der Knaap; Co-PIs: **A.L. Caicedo**, D. Tieman, L. Mueller. Amount: $4,838,436; $485,426 to Caicedo Lab. May 2015-April 2020. NCE to April 2021.

**Massachusetts Agricultural Experiment Station – Hatch (National Institute of Food and Agriculture; MAS00474): "**Genome-wide association mapping of biofuel traits in the energy crop model, *Brachypodium distachyon*". PI: **Ana L. Caicedo**; Co-PIs: Samuel P. Hazen, Ludmila Tyler. Amount: $40,000. December 2014-September 2018.

**Faculty Research Grant/Healy Endowment Grant - UMass Amherst:** "The evolutionary genetics of palatability fruit traits across wild and cultivated tomato species". PI: **Ana L. Caicedo**. Amount: $15,000. December 2011-November 2012.

**Massachusetts Agricultural Experiment Station – Hatch (National Institute of Food and Agriculture MAS00419): "**Surveying the energy crop model *Brachypodium distachyon* for improved thermo-chemical and biological conversion efficiency". PI: **Ana L. Caicedo**; Co-PIs: Samuel P. Hazen, George W Huber. Amount: $40,000. December 2011-November 2014.

**NSF Plant Genome Research Program (IOS-1032023):** "Genomic structure and contemporary evolution of weediness in red rice". PI: **Ana L. Caicedo;** Co-PIs: Kenneth M. Olsen, Yulin Jia; Key Collaborators: David Gealy, Nilda Burgos. Sponsor: National Science Foundation. Amount: $2,490,833. October 2010 – January 2017.

**NSF Developing Country Collaboration supplement to IOS-1032023: "**The evolutionary genomics of South American weedy rice". PI: **Ana L. Caicedo**. Sponsor: National Science Foundation. Amount: $91,642. July 2014– January 2017

**DOE-JGI Community Sequencing Program:** "Surveying natural diversity of the model grass *Brachypodium distachyon*". PI John P. Vogel; Co-PIs: Todd C. Mockler, Scott Givan, Luis A.J. Mur, **Ana L. Caicedo**, Sam Hazen, Tom Juenger, Hikmet Budak, Metin Tuna. No funds requested.

**NSF Plant Genome Research Program (DBI-0638820)**: "The evolutionary genomics of invasive weedy rice". PI: Kenneth M. Olsen; Co-PIs: **Ana L. Caicedo**, Yulin Jia. Sponsor: National Science Foundation (Plant Comparative Genome Sequencing). Amount: $1,121,523. October 2006 – September 2010.

**Dissertation Improvement Grant (DEB-0073082):** "Population genetics of a plant disease resistance gene: *Cf-2* in natural populations of *Lycopersicon pimpinellifolium*". Sponsor: National Science Foundation. Amount: $10,000. May 2000 – December 2002.

## TEACHING EXPERIENCE

**Instructor, Biology Department, University of Massachusetts Amherst.**

- *Molecular Biology of Model Systems (BIOL 486H)* Spring 2007, 2008; lab-based course (20 students) co-taught with three instructors.
- *Tropical Field Biology (BIOL 497H)* Spring 2007, 2008; this lecture and field-based course (29 students) is typically co-taught by 4-5 instructors.
- *Population Genetics (BIOL 514)* Fall 2007, 2008; Spring 2011, 2012, 2015-2019,Fall 2019; I developed this primarily lecture-based course (40-50 students) from scratch
- *Advances in Evolutionary Genomics Journal Club (BIOL 580)* Spring 2010, Fall 2011, 2013 (6-10 graduate students).
- *Topics in Plant Biology (BIOL 335),* Fall 2010, 2011, 2013, 2015 -2018, 2020; Instructor for 1/3 of this lecture-based survey course (180-200 students).
- *Junior Fellows in the Life Sciences Enrichment Program (BIOL 597K)* 2016-2017, 2017-2020 (9-12 students) I co-teach this enrichment program aimed at stellar undergraduates involved in research, in which we discuss career paths, life in graduate/medical school, ethics, and organize a college wide undergraduate research symposium.
- *Plant Biology Core Course I (PLANTBIO 891PB)* I have taught the "Population Genetics" module for this survey course in Fall 2007-2011 and 2013-2020, and coordinated the entire course (i.e. scheduling and managing ~10 instructors) Fall 2015-2019 (5-10 graduate students).
- *Organismic and Evolutionary Biology Core Course (ORGEVBI 618)* Fall 2010, 2016, 2018 (12-14 graduate students) I teach the "genome-wide selection scans" module for this course.

**Guest Lecturer: Department of Genetics, NC State University.**

- *Evolutionary Genetics*, Fall 2004. Instructor: Dr. Michael D. Purugganan.

**Teaching Assistant, Department of Biology, Washington University.**

- *Plants, Environment, and Civilization*, Spring 2001. Instructor Dr. Barbara A. Schaal.
- *Evolution,* Spring 2000. Instructor: Dr. Jonathan B. Losos.
- *Fundamentals of Biology I*, Spring 1998. Instructor: Dr. Paul S.G. Stein.

**Teaching Assistant**, **Department of Biology, Universidad de los Andes.**

- *Introduction to Biology*, Spring 1994. Instructor: Dr. Nohra de Sánchez.
- *Introduction to Biology*, Fall 1994, Spring 1995. Instructor: Dr. Felipe Guhl.

## PROFESSIONAL SERVICE

**Associate Editor**
Molecular Ecology 2014-present
BMC Evolutionary Biology 2013-2018
Plants, People, Planet 2016-present

**Journal Article Reviewer**
American Journal of Botany; Annals of Botany; AoB; Bioinformatics; BMC Evolutionary Biology; Bioscience; Crop Protection; Current Biology; Euphytica; Evolution; Evolutionary Applications; Frontiers in Plant Science; Genetics; Genome; Genome Research; Heredity; Journal of Crop Improvement; Journal of Heredity; Journal of Systematics and Evolution; Molecular Biology and Evolution; Molecular Breeding; Molecular Ecology; Molecular Ecology Notes; Molecular Phylogenetics and Evolution; Nature Communications, New Phytologist; Pest Management

Science; Planta; Plant and Cell Physiology; Plant Genome; Plant Molecular Biology; Plant Physiology; Plant Science; Plant Systematics and Evolution; PLoS Genetics; PloS ONE; Proceedings of the National Academy of Sciences USA; Rice; Scientific Reports; The Plant Cell; Theoretical and Applied Genetics; Weed Science.

**Ad Hoc Grant Reviewer**
Colciencias (Colombia); European Research Area – Plant Genomics (ERA-PG); KAUST (King Abdullah University of Science and Technology); National Science Foundation (NSF: DEB, DBI, IOS, MCB, EPSCoR RII); Natural Environment Research Council (NERC, UK); United States - Israel Binational Science Foundation (BSF); University of Puerto Rico Institutional Research Fund (FIPI), French National Research Agency (ANR), Genome Canada and Genome British Columbia

**Grant Review Panels Served**
National Science Foundation: Division of Environmental Biology - DEB (2010, 2020); Division of Biological Infrastructure - DBI (2007); Division of Integrative and Organismal Systems - IOS (2008, 2011, 2011, 2015, 2015, 2018); Division of Molecular and Cellular Biosciences - MCB (2012).

## INSTITUTIONAL SERVICE

**University Committees**
Institutional Chemical Safety Committee (ICSC): 2013-present
Faculty Senate Graduate Council: 2018-present
Faculty Research Grant reviewer (Office of the Vice Chancellor for Research and Engagement): 2018
Ad-hoc Reviewer for Honors Research Grants, Research Assistant Fellowships (Commonwealth Honors College): 2012, 2016, 2019
UMass Faculty Orientation Panel: “Getting Started as a Teacher, Scholar, and UMass Citizen”, 2007

**College of Natural Sciences**
Mahoney Life Sciences Prize Reviewer: 2018, 2019

**Departmental/Program Committees**
*Biology Department*
Biology Advising Committee: 2011-2015.
Biology Internet Technology Committee: 2010-2012.
Hiring Priorities Committee, 2007-2008; 2010-2018.
Departmental Personnel Committee, 2009-2010, 2013-2016.
Plant Metabolism Assistant Professor Search Committee, 2007-2008.
Biology Greenhouse Committee: 2008-present.
Workplace Climate Advisory Committee: 2018-2019.
Space Committee: 2020-present.
Faculty Workloads Committee: 2018-2019.

*Organismic and Evolutionary Biology (OEB) Graduate Program*
OEB Steering Committee, 2007-present.
OEB Seminar Committee, 2009-2017; Chair of Committee 2011-2017.
OEB Evolutionary Core Course Committee, 2009-2012.
OEB Admissions Committee, 2012
OEB Graduate Operations Committee, 2017-present.

*Plant Biology (PB) Graduate Program*
PB Graduate Operations Committee, 2014-present.
Plant Biology Steering Committee, 2014-2018.

PB Graduate Admissions Committee, 2008-2012.
Plant Biology Symposium Organizer, 2008.
Search Committee for Clerk V position PB program Manager, 2017.

*Other Departments*
Conservation Genetics Assistant Professor Search Committee (Dept. of Environmental Conservation), 2008-2009; 2016-2017.
Plant Pathology/Molecular Genetics Assistant Professor Search Committee (Dept. of Plant Soil and Insect Sciences), 2007.

## ADVISING AND RESEARCH SUPERVISION

**University of Massachusetts Amherst:**
*Post-doctoral Researchers Advising*
Dr. Michael Reagon, March 2007-2010;
Dr. Katie Hyma, February 2011-February 2012;
Dr. Hamid Razifard, June 2016-May 2020

*Doctoral Student Advising/Committee Chairperson*
Carrie Thurber (PB; PhD 2012)
Ian Gillis (PB; PhD 2018)
Zhongyun Huang (PB; PhD 2017)
Alexandra Barr (OEB; 2017- took medical leave from program)
Xiang Li (PB; 2018-PhD in progress)
Jacob Barnett (OEB; 2018-PhD in progress)
Rachel Tavares (PB; 2020-PhD in progress)
Verónica Hoyos (Universidad Nacional de Colombia; coadvisor; PhD 2018)

*Masters Student Advising/Committee Chairperson*
Stephanie Craig (PB; Masters 2013)
Altynay Zhanayeva (PB; Masters 2017)

*Undergraduate independent study*
Daniela Schmieder, Spring 2007, Neil Kalra, Fall 2007,-Spring 2008; Mario Moreira, Spring 2008; Mona Salameh, Fall 2007, Spring, Summer 2008 (Honors thesis; HHMI undergraduate intern); Nicole Eckart, Fall 2008-Spring 2010 (Honors thesis; HHMI undergraduate intern); Justin Nicholatos, Spring 2009-Spring 2010; Stephanie Craig, Fall 2009-Spring 2011 (Honors thesis); Lauren Bishop, Spring 2010; Rafaela Dos Santos, Summer 2010-Spring 2012; Lauren Resnick, Fall 2010-Spring 2012 (Honors thesis); Sara Goodwin, Fall 2011-Spring 2015 (Honors thesis); Katherine Day, Fall 2012-Spring 2014 (Honors thesis); Colette Kramer, Spring 2014; Deborah Tschong, Spring 2013-spring 2015 (Honors thesis); Angelina McKenna, Spring 2016-Spring 2017 (Honors thesis); Rika Matsuo, Spring 2015-Fall 2016 (Honors thesis); Madelaine Klein, Fall 2014-Spring 2016 (Honors thesis); Shannon Kelly, Spring 2015-Spring 2016 (Honors thesis); Amy Wang, Spring 2016-2017; Madeleine Boyle, Spring 2016-Spring 2018 (Honors thesis); Audrey Della Valle, Spring 2017-Spring 2018; Elizabeth Manser, Spring-Fall 2017; Jacob Scott, Spring 2017-present; Carter Hissam, Fall 2018-present; Jessica Lessard, Fall 2018-present; Gianna McNally, Spring 2019-present (Honors thesis); Alden Nichols Spring-Fall 2019; Dan Lowey, Fall 2019-present; Fabbiha Hossain, Fall 2019-Spring 2020, Rovin Sharma (Spring 2020-present), Gina Buonauro (Spring 2020-present), Phoebe Antonio (Spring 2020-present).

*Summer high school interns*
Dai Zong Sun (2016), Alexander Webb (2016), Nikhil Khandekar (2017), Weesam Chechab (2017), Griffyn Hyunwoo Kang (2018), Avantika Gokulnatha (2019)

*Visiting Students*
Jorge Rodriguez, Summer 2013-Fall 2013 (undergraduate, Univ. Nacional, Bogotá, Colombia); Verónica Hoyos, Fall 2015- 2016 (PhD candidate, Univ. Nacional, Bogotá, Colombia); Ignacio Armaro Blanco, Summer 2018 (PhD candidate Centro de Investigación "Finca La Orden-Valdesequera", Guadajira, Spain); Shira Penner, November 2018 (PhD candidate, Tel Aviv University, Israel)

*Dissertation/Thesis Committee Member*
Natalie Feliciano (PB; MS 2008), Enne Akor (BMB; Masters 2008), Mini Aggarwal (PB; MS 2009), Jeff Chiecko (PB; MS 2009), Holly Bernardo (OEB; MS 2010), Loreto Araneda (PSIS; MS 2011), Crystal Cabral (MCB; MS 2010), Gina Trabuco (MCB; MS 2011), Dominick Matos (MCB; MS 2011), Zeke Nims (PB, PhD 2013), Sasha Tulchinsky (OEB, PhD 2013), Barbara Wagner (PB; MS 2013), Scott Lee (PB; PhD 2017), Evan Palmer-Young (OEB; PhD 2017); Rose Zheng (MCB; MS 2015), Dilay Hazal (MCB, PhD in progress), Erin Patterson (PB, PhD in progress), Mayrolin García Morales (OEB, PhD in progress).

*Undergraduate Thesis Committee member:* Jessica Reusch (2007)

*OEB Guidance Committee or Qualifying Exam Committee*
Holly Baltzer (guidance committee 2007), Yong Zhang (guidance committee 2013; qualifying exam 2015), Elsa Cousins (guidance committee; 2017), Brittany Laginhas (qualifying exam; 2018), Maggie Bruce (qualifying exam moderator, 2018); Elsa Cousins (qualifying exam moderator, 2018); Joe Drake (qualifying exam moderator, 2019), Kimberly Acevedo (guidance committee, 2020).

*MCB Qualifying exam committee*
Jacob Mamam (chair of ORP defense, 2019)

*Graduate student rotations*
Greg Delulio (PB, 2011), Colby Witherup (PB, 2012), Jarrett Mann (PB, 2015), Xiang Li (PB, 2017), Rachel Tavares (PB, 2019), Andrea Marroquin (PB, 2020), Maryam Rashidzade (PB, 2021).

**North Carolina State University**
Undergraduate work-study student: Alexa Avalos, Spring 2004.

**Washington University**
Undergraduate work-study student: Anna Pachske, Spring, Summer 2002.
Graduate rotation student: Michele Johnson, Spring 2002.

## OUTREACH AND PUBLIC EDUCATION

- *The Mind Hears* (https://themindhears.org)**:** founder and contributor of this blog for mentoring of deaf and hard of hearing academics at all career stages.
- EUREKA Summer Program with Girls Inc.: My lab hosted a class of middle school underrepresented minority girls in which we taught them about the process of crop domestication (July 2018).
- Clarke school for Hearing and Speech (Northampton): My lab hosted 8th graders for a lab visit and activity, in which we taught them about the study of phenotypic and genetic diversity (Spring 2009, 2010, 2011, 2012, 2013, 2015)
- UMass Commonwealth Honors College BioTAP guest lecturer: 2007, 2016
- Gordon Research Conference Plant Molecular Biology: Dynamic Plant Systems: Discussion Leader for session on Genome Dynamics and Evolution (June 2018)

## PROFESSIONAL SOCIETIES

Society for the Study of Evolution
Botanical Society of America
Society for Molecular Biology and Evolution
American Society of Plant Biologists

**PUBLICATIONS (*undergraduate advisee;[+]graduate student or postdoc advisee)**

**Journal papers**
***Submitted***

- Huang, Z[+]., J.A. Rodriguez*, R. Matsuo*, **A.L. Caicedo**. Assessing physiological and genetic evidence for weedy rice competitiveness traits at the vegetative growth stage. Frontiers in Agronomy. *In review*.

***Published***

1. Alonge, M., X. Wang, M. Benoit, S. Soyk, L. Pereira, L. Zhang, H. Suresh, S. Ramakrishnan, F. Maumus, D. Ciren, Y. Levy, T. H. Harel, G. Shalev-Schlosser, Z. Amsellem, H. Razifard[+], **A.L. Caicedo**, D.M. Tieman, H. Klee, M. Kirsche, S. Aganezov, T.R. Ranallo-Benavidez, Z.H. Lemmon, J. Kim, G. Robitaille, M. Kramer, S. Goodwin, W.R. McCombie, S. Hutton, J. Van Eck, J. Gillis, Y. Eshed, F.J. Sedlazeck, E. van der Knaap, M.C. Schatz, Z.B. Lippman. 2020. Major impacts of widespread structural variation on gene expression and crop improvement in tomato. *Cell* 182: 145-161. e23.

2. Goad, D.M., Y. Jia, A. Gibbons, Y. Liu, D. Gealy, **A.L. Caicedo**, K.M. Olsen. 2020. Identification of Novel QTL Conferring Sheath Blight Resistance in Two Weedy Rice Mapping Populations. *Rice*. 13, 1-10. https://doi.org/10.1186/s12284-020-00381-9

3. Hoyos, V.[+], G. Plaza, X. Li[+], **A.L. Caicedo**. 2020. Something old, something new: Evolution of Colombian weedy rice (*Oryza* spp.) through de novo de-domestication, exotic gene flow, and hybridization. *Evolutionary Applications*. https://doi.org/10.1111/eva.12955

4. Razifard, H.[+], A. Ramos, A.L. Della Valle*, C. Bodary, E. Goetz, E.J. Manser*, X. Li, L. Zhang, S. Visa, D. Tieman, E. van der Knaap, and **A.L. Caicedo**. 2020. Genomic evidence for complex domestication history of the cultivated tomato in Latin America. *Molecular Biology and Evolution*, 37: 1118-1132.

5. Leebens-Mack, J.H., Barker, M.S., Carpenter, E.J. *et al.* One thousand plant transcriptomes and the phylogenomics of green plants. 2019. *Nature* 574**,** 679–685. doi:10.1038/s41586-019-1693-2

6. Bagavathiannan, M., S. Graham, Z. Ma, J. Barney, S. Coutts, **A.L. Caicedo,** R. De Clerck-Floate, N. West, L. Blank, A. Metcalf, M. Lacoste, C. Moreno, J. Evans, I. Burke, and H. Beckie. 2019. Considering Weed Management as a Social Dilemma Bridges Individual and Collective Interests. *Nature Plants,* 5: 343-351.

7. Hoyos, V.[+], G. Plaza, **A.L. Caicedo**. 2019. Characterization of the phenotypic variability in Colombian weedy rice (*Oryza* spp.). *Weed Science*, 67(4), 441-452. doi:10.1017/wsc.2019.18

8. Huang, Z.[+], S. Kelly*, R. Matsuo*, L.F. Li, Y. Li, K.M. Olsen, Y. Jia, and **A.L. Caicedo**. 2018. The role of standing variation in the evolution of weediness traits in South Asian weedy rice (*Oryza* spp.). *G3: Genes, Genomes, Genetics,* 8: 3679-3690.

9. Vigueira, C.C., X. Qi, B.-K. Song, L.-F. Li, **A.L. Caicedo**, Y. Jia, K.M. Olsen. 2018. Call of the wild rice: *Oryza rufipogon* shapes weedy rice evolution in Southeast Asia. *Evolutionary Applications* 00:1–12. https://doi.org/10.1111/eva.12581

10. Gordon, S.P., B. Contreras-Moreira, D.P. Woods, D.L. Des Marais, D. Burgess, S. Shu, C. Stritt, A.C. Roulin, W. Schackwitz, L. Tyler, J. Martin, A. Lipzen, N. Dochy, J. Phillips, K. Barry, K. Geuten, H. Budak, T.E. Juenger, R. Amasino, **A.L. Caicedo**, D. Goodstein, P. Davidson, L.A.J. Mur, M. Figueroa, M. Freeling, P. Catalan, J.P. Vogel. 2017. Extensive gene content variation in the *Brachypodium distachyon* pan-genome correlates with population structure. *Nature Communications,* 8: 2184.

11. Huang, Z.[+], N.D. Young, M. Reagon[+], K.E. Hyma[+], K.M. Olsen, Y. Jia, and **A.L. Caicedo**. 2017. All roads lead to weediness: patterns of genomic divergence reveal extensive recurrent weedy rice origins from South Asian *Oryza*. *Molecular Ecology.* 26: 3151-3167.

12. Li, L-F., Y.-L. Li, Y. Jia, **A.L. Caicedo^**, and K.M. Olsen^. 2017. Signatures of adaptation in the weedy rice genome. *Nature Genetics* 49: 811-814. ^co-corresponding authors

13. Singh, V., S. Singh, H. Black, V. Boyett, S. Basu, D. Gealy, E. Gbur, A. Pereira, R.C. Scott, **A. Caicedo**, N.R. Burgos. 2017. Introgression of Clearfield™ rice crop traits into weedy red rice outcrosses. *Field Crops Research*, 207: 13-23.

14. Singh, V., N.R. Burgos, S. Singh, D.R. Gealy, E.E. Gbur, **A.L. Caicedo**. 2017. Impact of volunteer rice infestation on yield and grain quality of rice. *Pest Management Science*. Doi: 10.1002/ps.4343

15. Cui, Y., B.K. Song, L.F. Li, Y.L. Li, Z. Huang, **A.L. Caicedo**, Y. Jia, K.M. Olsen. 2016. Little white lies: pericarp color provides insights into the origins and evolution of Southeast Asian weedy rice. *G3*, 6: 4105-4114.

16. Tyler, L., S.J. Lee, N.D. Young, G.A. DeIulio, E. Benavente, M. Reagon[+], J. Sysopha*, R.M. Baldini, A. Troìa, S.P. Hazen, and **A.L. Caicedo**. 2016. Population structure in the model grass *Brachypodium distachyon* is highly correlated with flowering differences across broad geographic areas. *Plant Genome,* 9. doi: 10.3835/plantgenome2015.08.0074

17. Liu, Y., Y. Jia, D. Gealy, D.M. Goad, **A.L. Caicedo**, K.M. Olsen. 2016. Marker development for rice blast resistance gene *Pi66(t)* and application in the USDA rice mini-core collection. *Crop Science*. 56: 1-8.

18. López-Alvarez, D., Manzaneda, A.J., Rey, P.J., Giraldo, P., Benavente, E., Allainguillaume, J., Mur, L., **Caicedo, A.L.,** Hazen, S.P., Breiman, A., Ezrati, S., Catalán, P. (2015) Environmental niche variation and evolutionary diversification of the *Brachypodium distachyon* grass complex species in their native circum-Mediterranean range. *American Journal of Botany*, 102: 1–16.

19. Qi, X.-S., Y. Liu, C.C. Vigueira, N.D. Young, **A.L. Caicedo**, Y. Jia, D.R. Gealy, and K.M. Olsen. 2015. More than one way to evolve a weed: Parallel evolution of U.S. weedy rice through independent genetic mechanisms. *Molecular Ecology*, 24: 3329–3344.

20. Liu, Y., X. Qi, D.R. Gealy, K.M. Olsen, **A.L. Caicedo**, and Y. Jia. 2015. QTLs analysis for resistance to blast disease in US weedy rice. *Molecular Plant-Microbe Interactions*, 28: 834-844.

21. Ziska, L.H., D.R. Gealy, N.R. Burgos, **A.L. Caicedo**, J. Gressel, A.L. Lawton-Rauh, L.A. Avila, G. Theisen, J. Norsworthy, A. Ferrero, F. Vidotto, D.E. Johnson, F.G. Ferreira, E. Marchesan,

V. Menezes, M.A. Cohn, S. Linscombe, L. Carmona, R. Tang and A. Merotto, Jr. 2015. Weedy (Red) Rice: An Emerging Constraint to Global Rice Production. *Advances in Agronomy*, 129: 181-228.

22. Liu, Y., X. Qi, N.D. Young, K.M. Olsen, **A.L. Caicedo**, and Y. Jia. 2015. Characterization of resistance genes to rice blast fungus *Magnaporthe Oryzae* in a "Green revolution" rice variety. *Molecular Breeding* 35: 52.

23. Burgos, N.R., V. Singh, T.M. Tseng, H. Black, N. D. Young, Z. Huang[+], K.E. Hyma[+], D.R. Gealy, and **A.L. Caicedo**. 2014. The impact of herbicide-resistant rice technology on phenotypic diversity and population structure of U.S. weedy rice. *Plant Physiology*. 166:1208-1220.

24. Thurber, C.S.[+], M. Reagon[+], K.M. Olsen, Y. Jia, and **A.L. Caicedo**. 2014. The evolution of flowering strategies in US weedy rice. *American Journal of Botany,* 101:1737-1747.

25. Craig, S.[+], M. Reagon[+], L. Resnick* and **A.L. Caicedo**. 2014. Allele distributions at hybrid incompatibility loci facilitate the potential for gene flow between cultivated and weedy rice in the US. PLOS One. 9(1): e86647.

26. Vigueira, C.C., K.M. Olsen, and **A.L. Caicedo**. 2013. The red queen in the corn: Agricultural weeds as models of rapid adaptive evolution. *Heredity, 110*: 3013-311.

27. Thurber, C.S.[+], M.H. Jia, Y. Jia, and **A.L. Caicedo**. 2013. Similar traits, different genes? Examining convergent evolution in related weedy rice populations. *Molecular Ecology*, 22: 685-698.

28. Lee, S., Y. Jia, M. Jia, D.R. Gealy, K.M. Olsen, and **A.L. Caicedo**. 2011. Molecular evolution of the rice blast resistance gene *Pi-ta* in invasive weedy rice in the USA. *PLoS ONE*, 6: e26260.

29. Reagon, M.[+], C.S. Thurber[+], K.M. Olsen, Y. Jia, **A.L. Caicedo**. 2011. The long and the short of it: *SD1* polymorphism and the evolution of growth trait divergence in U.S. weedy rice. *Molecular Ecology*, 20: 3743-3756.

30. Brkljacic, J. et al. Grotewold E., Scholl R., Mockler T., Garvin D.F., Vain .P, Brutnell T., Sibout R., Bevan M., Budak H., **Caicedo A.L.**, Gao C., Gu Y., Hazen S.P., Holt III B.F., Hong S-Y, Jordan M., Manzaneda A.J., Mitchell-Olds T., Mochida K., Mur L.A.J., Park C-M, Sedbrook J., Watt M., Zheng S.J., Vogel J.P. 2011. Brachypodium as a model for the grasses: Today and the future. *Plant Physiology*, 157: 3-13.

31. Hyma, K.E[+]. and **A.L. Caicedo**. 2011. Shedding light on the evolution of plasticity in natural populations. *Molecular Ecology*, 20: 3491-3493.

32. Thurber, C.S.[+], P.K. Hepler, and **A.L. Caicedo**. 2011. Timing is everything: early degradation of abscission layer is associated with increased seed shattering in U.S. weedy rice. *BMC Plant Biology*, 11: 14.

33. Mather, K.A., J. Molina, J.M. Flowers, S. Rubinstein, B.L. Rauh, A. Lawton-Rauh, **A.L. Caicedo**, K.L. McNally, M.D. Purugganan. 2010. Migration, isolation and hybridization in island populations: The case of Madagascar rice. *Molecular Ecology*, 19: 4892-4905.

34. Thurber, C.S[+], M. Reagon[+], B.L. Gross, K.M. Olsen, Y. Jia, and **A.L. Caicedo**. 2010. Molecular evolution of shattering loci in U.S. weedy rice. *Molecular Ecology*, 19: 3271-3284.

35. Gross, B.L., M. Reagon[+], S.C. Hsu, **A.L. Caicedo**, Y. Jia, and K.M. Olsen. 2010. Seeing red: the origin of grain pigmentation in US weedy rice. Molecular Ecology, 19: 3380-3393.

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37. Lee, S, S. Costanzo, Y. Jia, K.M. Olsen, and **A.L. Caicedo.** 2009. Evolutionary dynamics of the genomic region around the blast resistance gene Pi-ta in AA genome Oryza species. Genetics, 183. 1315-1325.

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39. **Caicedo, A. L.** 2008. Geographic diversity cline of *R* gene homologs in wild populations of *Solanum pimpinellifolium* (Solanaceae). *American Journal of Botany* 95: 393-398.

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41. **Caicedo, A.L.^**, S.H. Williamson^, R.D. Hernandez, A. Boyko, A. Fledel-Alon, T.L. York, N. Polato, K.M. Olsen, R. Nielsen, S. McCouch, C.D. Bustamante, and M.D. Purugganan. 2007. Genome-wide patterns of nucleotide polymorphism in domesticated rice. *PLoS Genetics* 3: 1745-1756. ^shared authorship

42. Olsen, K.M., **A.L. Caicedo**, and Y. Jia. 2007. Evolutionary genomics of weedy rice in the U.S.A. *Journal of Integrative Plant Biology* 49, 811-816.

43. Korves, T.M., K.J. Schmid, **A.L. Caicedo**, C. Mays, J.R. Stinchcombe, M.D. Purugganan, and J. Schmitt. 2007. Fitness effects associated with the major flowering time gene *FRIGIDA* in *Arabidopsis thaliana* in the field. *American Naturalist* 169, E141-E157.

44. Olsen, K.M., **A.L. Caicedo**, N. Polato, A. McClung, S. McCouch, M.D. Purugganan. 2006. Selection under domestication: Evidence for a sweep in the rice *Waxy* genomic region. *Genetics* 173: 975-983.

*45.* Stinchcombe, J.R., **A.L. Caicedo**, R. Hopkins, C. Mays, M.D. Purugganan, and J. Schmitt. 2005. Vernalization sensitivity in *Arabidopsis thaliana:* the effects of latitude and *FLC* variation. *American Journal of Botany* 92: 1701-1707.

46. **Caicedo, A.L.** and M.D. Purugganan. 2005. Comparative plant genomics: frontiers and prospects. *Plant Physiology* 138: 545-547.

47. **Caicedo, A.L.** and B.A. Schaal, 2004. Heterogeneous evolutionary processes affect *R* gene diversity in natural populations of *Solanum pimpinellifolium*. *Proceedings of the National Academy of Sciences USA* 101: 17444-17449.

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49. **Caicedo, A.L.** and B.A. Schaal, 2004. Population structure and phylogeography of *Solanum pimpinellifolium* inferred from a nuclear gene. *Molecular Ecology* 13: 1871-1882.

50. Schaal, B.A., J.F. Gaskin, and **A.L. Caicedo**, 2003. Phylogeography, haplotype trees, and invasive plant species. *Journal of Heredity* 94: 197-204.

51. Kover, P.X. and **A.L. Caicedo**, 2001. The genetic architecture of disease resistance in plants and the maintenance of recombination by parasites. *Molecular Ecology* 10: 1-16.

52. **Caicedo, A.L.**, B.A. Schaal, and B.N. Kunkel, 1999. Diversity and molecular evolution of the *RPS2* resistance gene in *Arabidopsis thaliana*. *Proceedings of the National Academy of Sciences USA* 96: 302-306.

53. **Caicedo, A.L.**, E. Gaitan, M.C. Duque, O. Toro, D.G. Debouck, J. Tohme, 1999. AFLP fingerprinting of *Phaseolus lunatus* L. and related wild species from South America. *Crop Science* 39: 1497-1507.

**Book Chapters**

***Submitted***

- Neve, P. and **A.L. Caicedo**. Chapter 15: Weed adaptation as a driving force for weed persistence in agroecosystems. *In* M. Upadhyaya, D. Clements (ed). Persistence Strategies of Weeds.

***Published***

- **Caicedo, A.L.** and I. Peralta. 2012. Basic information on the plant. *In* B. Liedl, J. Labate, J. Stommel, A. Slade, S. Hurst (ed.) Tomato (Genomics of Fruit and Vegetable Crops series), Science Publishers, NH.

- Labate, J.A., S. Grandillo, T. Fulton, S. Muños, **A.L. Caicedo**, I. Peralta, Y. Ji, R.T. Chetelat, et al. (39 authors in total). 2007. Tomato. p. 1-125. *In* C. Kole (ed.) Genome mapping and molecular breeding in plants: Volume 5 Vegetables. Springer Publishing Co., NY.

**INVITED SEMINARS**

**Invited symposia**

- **Caicedo, A.L.** "Weeds, Crops, and Wild Plants: adaptive evolution in the agricultural environment". IUVF Meeting on Plant Physiology. Universidade Federal de Viçosa. Online, Viçosa, MG, Brazil. December 3, 2020.

- **Caicedo, A.L.** "Evolución en marcha rápida: ¿qué podemos aprender de las malezas?" Ciclo: Universidades por la Ciencia. El Colegio Nacional. Online, Ciudad de México. October 20, 2020.

- **Caicedo, A.L.** "Reinventando la rueda? Mecanismos de adaptación y convergencia en la evolución del arroz maleza." XLVIII Congreso Argentino de Genética. Simposio de Ecología Evolutiva dentro de Sistemas Agrícolas. Online, Argentina. September 23-26, 2020.

- **Caicedo, A.L.**, X. Li, V. Hoyos, S. Zhang, I. A. Blanco. "Reinventing the wheel? The evolution of seed shattering in de-domesticated populations of weedy rice." Plants, People, Planet Symposium. Royal Botanic Gardens, Kew, Richmond, United Kingdom, September 4-5, 2019.

- **Caicedo, A.L.** "The population history of *Solanum lycopersicum* var. *cerasiforme* provides insight into domestication history and trait variation of early tomatoes." The 15$^{th}$ Solanaceae Conference. Chiang Mai, Thailand, September 30-October 4, 2018.

- **Caicedo, A.L.** "All roads lead to weediness: adaptation and convergence in weedy rice." 21st Evolutionary Biology Meeting at Marseilles. CANOPÉ. Marseille, France, September 26-29, 2017.

- **Caicedo, A.L.** "All roads lead to weediness: convergence and adaptation in weedy rice." Genomics and Systems Biology VII. NYU Abu Dhabi Saadiyat Campus. Abu Dhabi, United Arab Emirates, February 7-9, 2017.

- **Caicedo, A.L.,** Z. Huang, N. Young, V. Hoyos, S. Zhang, K.M. Olsen, Y. Jia**.** "All roads lead to weediness? Dissecting the extent of parallel evolution in weedy rice." Plant Developmental Evolution. 37th New Phytologist Symposium. Beijing, China, May 15-19, 2016.

- **Caicedo, A.L.** "Weed evolution in the agricultural environment: the case of red rice." Evolution of Crop Plants Symposium. Canadian Society for Ecology and Evolution Annual Meeting. Saskatoon, Saskatchewan, Canada, May 2015.

- **Caicedo, A.L.** "Crop contributions to weed evolution: Adaptation and convergence in weedy rice." CROPS 2015: Improving Agriculture Through Genomics. HudsonAlpha Institute for Biotechnology, Huntsville, AL, May 2015.

- **Caicedo, A.L.** "Adaptation, convergence, and the evolution of weediness: the case of red rice". Comparative Genomics Workshop. International Plant and Animal Genome XXII Conference. Town & Country Convention Center, San Diego, CA, January 2014.

- **Caicedo, A.L.** "Convergence and the evolution of weediness: examining the origins of weedy rice". 11th Annual Ecological Genomics Symposium. Marriott Country Club Plaza, Kansas City, MO, November 1-3, 2013.

- **Caicedo, A.L.** "Adaptation and convergence in agricultural weeds: examining the origins of weedy rice". Plant Genome Dynamics. Laboratoire Arago, Banyuls sur Mer, France, September 12-13, 2013.

- **Caicedo, A.L.** "How to create an agricultural weed: convergent evolution and the origins of weedy rice populations". Speaking of Food: connecting basic and applied science symposium, Botany 2013. Riverside Hilton, New Orleans, LA, July 2013.

- **Caicedo, A.L.** "Genetic diversity of the genus *Oryza* applied to studies of weedy rice adaptation". II Latin-American Symposium of Red Rice. Pontifícia Universidade Católica do RS, Porto Alegre, RS, Brazil. June 2013.

- **Caicedo, A.L.** "How to evolve a weed: examining convergent evolution in weedy red rice". Weedy and Invasive Plant Genomics Workshop. International Plant and Animal Genome XXI Conference. Town & Country Convention Center, San Diego, CA, January 2013.

- **Caicedo A.L. "**How to evolve a weed: the evolutionary genomics of invasive weedy rice". XIV National Congress of Biochemistry and Plant Molecular Biology & 7th Symposium Mexico-USA. Centro de Convenciones Campeche XXI, Campeche, Mexico, November 29-December 2, 2011.

- **Caicedo, A.L.** "The evolutionary genomics of invasive weedy rice". Gordon Research Conference – Ecological and Evolutionary Genomics. University of New England, Biddeford, ME, July 2011.

- **Caicedo A.L.** "How to evolve a weed: the origins of weedy rice in the U.S." Minority Affairs - Plant Systems and Genomic Biology Minisymposium, Plant Biology 2010 – ASPB annual meeting. Palais des Congrès, Montréal, Canada, August 2010.

- **Caicedo, A.L. "**The Origin of Weediness in U.S. Red Rice". Weedy and Invasive Plant Genomics workshop, Plant and Animal Genome XVIII Conference. Town & Country Convention Center, San Diego, CA, January 2010.

- **Caicedo, A.L.** "Crops and weeds: some evolutionary genomics applications" (original title in Spanish). I Simposio Red Colombiana de Biología Evolutiva – COLEVOL. Universidad de los Andes, Bogotá, Colombia, November 2008.

- **Caicedo, A.L**. "Genome-wide patterns of nucleotide polymorphism in domesticated rice". Genetics of Crop Domestication. The Banbury Center, Cold Spring Harbor Laboratory, New York, U.S.A., October 2007.

- **Caicedo, A.L**. "Crops and weeds: insights from plant population genomics". Conférences Jacques Monod: Environmental genomics: from individual genomes to genomes of complex communities. Station Biologique, Roscoff, France, June 2007.

- **Caicedo, A.L**., S. H. Williamson, R. Nielsen, S. McCouch, C. D. Bustamante, M. D. Purugganan. "The patterns of nucleotide polymorphism in the domesticated rice genome." The 5$^{th}$ Okazaki Biology Conference: Speciation and Adaptation – Ecological Genomics of Model Organisms and Beyond. National Institute for Basic Biology, Okazaki and Yamaha Resort Tsumagoi, Kakegawa, Japan, March 2007.

- **Caicedo, A.L.** "Genomic patterns of polymorphism in domesticated rice (*Oryza sativa*) and its wild ancestor (*O. rufipogon*)". CNRS Course in Residence: High-throughput Molecular Biology Methods in the Environmental Sciences. Station Biologique de Roscoff, France, September 2005.

- Schaal, B.A. and **A.L. Caicedo**. "Genetic variation in disease resistance: *Arabidopsis* and *Solanum"*. Annual Symposium: Genes in Ecology, Ecology in Genes. Overland Park, KS, U.S.A., November 2003.

- **Caicedo, A.L.** and B.A. Schaal. Population genetics of the *Cf-2* disease resistance gene in wild populations of *Lycopersicon pimpinellifolium*. European Science Foundation Workshop: Adaptation of Plant Populations to Environmental Insult. University of Newcastle, Newcastle upon Tyne, United Kingdom, July 2001.

**Invited Departmental seminars**

- Donald Danforth Plant Science Center, St. Louis, MO, December 2020.
- Department of Biology and Biochemistry, University of Bath, February 2020.
- Plant Evolutionary Ecology group, University of Tübingen. February 2020.
- Department of Molecular Biology. Max Planck Institute for Developmental Biology, January 2020.
- Biology Program, NYU Abu Dhabi Saadiyat Campus, Abu Dhabi, United Arab Emirates, May 2017.
- Key Lab of Germplasm Utilization, Institute of Crop Science, Chinese Academy of Agricultural Sciences, Beijing, China, May 2016.
- School of Life Sciences, Fudan University, Shanghai, China, May 2016.
- Department of Horticulture and Crop Science, Ohio State University, Wooster, OH, March 2015.
- Arnold Arboretum, Harvard University, Boston, MA, November 2014.
- Dept. of Biology, Clark University, Worcester, MA, October 2014.
- Dept. de Ciencias Biológicas, Universidad de los Andes, Bogotá, Colombia, February 2013.

- Department of Biology, Heinrich-Heine-Universitat, Duesseldorf, Germany, July 2012.
- Department of Biological Sciences, University of Cincinnati, Cincinnati, OH, May 2012.
- Harvard University Herbaria, Harvard University, Cambridge, MA, November 2011.
- Department of Botany, Miami University, Oxford, OH, April 2011.
- Plant and Soil Science Department, University of Vermont, Burlington, VT, April 2011.
- Department of Plant, Soil, and Insect Sciences, University of Massachusetts, Amherst, MA, November 2010.
- Natural Science Department, Colby Sawyer College, New London, NH. March 2010.
- Department of Ecology and Evolution, Stony Brook University, Stony Brook, NY. November 2009.
- Microbial and Plant Genomics Institute, University of Minnesota, St. Paul, MN, November 2009.
- Genetics Graduate Program, University of New Hampshire, Durham, NH, February 2008.
- Laboratoire Ecologie, Systématique, Evolution, UMR ENGREF-CNRS 8079, Bât. 360, Université Paris-Sud, 91405 Orsay Cedex, France, June 2007.
- Biology Department, University of Massachusetts, Boston, MA, April 2007.
- Molecular Cell Biology Graduate Program, University of Massachusetts, Amherst, MA, November 2006.
- Plant Biology Graduate Program, University of Massachusetts, Amherst, MA, October 2006.
- Dale Bumpers National Rice Research Center, Stuttgart, AR, May 2006.
- Biology Department, University of Massachusetts, Amherst, MA, February 2006.
- Department of Ecology and Evolutionary Biology, University of California, Irvine, CA, January 2006.
- Department of Biology, University of Kentucky, Lexington, KY, December 2005.
- Department of Ecology and Evolutionary Biology, University of California, Los Angeles, CA, December 2005.
- Department of Integrative Biology, University of Texas, Austin, TX, November 2005.
- Boyce Thompson Institute for Plant Research, Ithaca, NY, October 2005.
- Biology Department, Amherst College, Amherst, MA, February 2005.
- Department of Biology, University of Massachusetts, Amherst, MA, December 2004.
- Museo de Historia Natural, Lima, Perú, January 2000.

**CONTRIBUTED PRESENTATIONS AND POSTERS (note: I do not list presentations and posters carried out by my students and postdocs on my CV)**

- J. Scott, K. Ghantous, H. Sandler, **A.L. Caicedo**. Documenting the genetic variation of dodder species in Massachusetts cranberry bogs to optimize efficacy of dodder management. **Poster**. North American Cranberry Researchers and Extension Workers (NACREW) Conference. The University of British Columbia, Vancouver, BC, Canada. August 19-21, 2019.

- **Caicedo, A.L.**, M.L., Cooke. A new international mentoring forum for deaf and hard of hearing academics. **Poster.** Annual meeting of the Society for the Study of Evolution. Providence, Rhode Island, June 2019.

- Cooke, M.L., **A.L. Caicedo**. A new mentoring forum for deaf and hard of hearing academics. American Geophysical Union Fall meeting. **Poster** booth ED23D-0947, December 2018.

- S. Gordon, et al. (30 authors total). Genome Diversity in *Brachypodium distachyon*: Deep Sequencing of Highly Diverse Natural Accessions. **Poster.** International Plant and Animal Genome XXI Conference. Town & Country Convention Center, San Diego, CA, January 2013.

- **A.L. Caicedo.** The evolutionary genomics of U.S. weedy rice. **Oral Presentation**. Annual meeting of the Society of Molecular Biology and Evolution. Barcelona, Spain, June 2008.

- Olsen, K.M., **A.L. Caicedo**, and Y. Jia. Evolutionary genomics of invasive weedy rice. **Poster**. Plant and Animal Genome XV Conference. Town & Country Convention Center, San Diego, CA, January 2007.

- **Caicedo, A.L.** and M.D. Purugganan. The levels and patterns of polymorphism in the rice genome. **Oral presentation**. Annual meeting of the Society of Molecular Biology and Evolution. Tempe, AZ, June 2006.

- **Caicedo, A.L.**, S. Williamson, N. Polato, A. Fledel-Alon, S. McCouch, C. Bustamante, and M.D. Purugganan. Genomic patterns of polymorphism in *Oryza sativa* and *O. rufipogon*. **Poster**. 5th International Rice Genetics Symposium. Manila, Philippines, November 2005.

- **Caicedo, A.L.** and M.D. Purugganan. The population genomics of domesticated rice (*O. sativa*) and its wild ancestor. **Oral presentation**. Annual meeting of the Society for the Study of Evolution. University of Alaska, Fairbanks, AK, June 2005.

- **Caicedo, A.L.** and M.D. Purugganan. The molecular basis of a latitudinal cline in *Arabidopsis thaliana* flowering time. **Oral presentation**. Annual meeting of the Society for the Study of Evolution. Colorado State University. Fort Collins, CO, June 2004.

- Purugganan, M.D., S. McCouch, R. Nielsen, C. Bustamante, B. Gardner, **A.L. Caicedo**, and K.M. Olsen. Evolutionary genomics of rice. **Poster**. Plant and Animal Genome XII Conference. Town & Country Convention Center, San Diego, CA, January 2004.

- **Caicedo, A.L.** Molecular evolution and population genetics of the *Cf-2* locus in *Solanum pimpinellifolium*. **Poster**. Gordon Conference: Evolutionary & Ecological Functional Genomics Colby-Sawyer College, New London, NH, August 2003.

- **Caicedo, A.L.** Genética poblacional de un locus de resistencia en poblaciones naturales de *Solanum pimpinellifolium*. **Poster**. VIII Congreso Latinoamericano de Botánica. Cartagena, Colombia, October 2002.

- **Caicedo, A.L** and B.A. Schaal. Population genetics of a disease resistance locus in *Lycopersicon pimpinellifolium*. **Oral presentation**. Annual meeting of the Society for the Study of Evolution. University of Illinois. Champaign-Urbana, IL, June 2002.

- **Caicedo, A.L.** and B.A. Schaal. Comparative population genetics of a neutral locus and a disease resistance gene in *Lycopersicon pimpinellifolium*. **Poster**. Annual meeting of the Society for the Study of Evolution. University of Tennessee, Knoxville, TN, June 2001.

- **Caicedo, A.L.**, M.C. Duque, E. Gaitán, O. Toro, D. Debouck, and J. Tohme. AFLP characterization of wild South American *Phaseolus* species. **Poster**. Annual meeting of the Society for the Study of Evolution. Washington University, St. Louis, MO, June 1996.