SUSAN R. STRICKLER

Comparative and phylogenetic studies of wild and cultivated tomato species, including diversity studies to select accessions for pathogen response screening
Identification of candidate genes involved in coffee humidity stress response

Career Fair at Girl's Day Out "Jobs in Plant Biology" Spring 2016 - 2020, 2022
Cortland YWCA

BTI Bioinformatics Course Instructor Spring, 2012 - present
Boyce Thompson Institute for Plant Research

Summer Intern Bioinformatics Course Instructor Summer, 2010 - present
Boyce Thompson Institute for Plant Research

Tech Savvy "Is Cauliflower the New Kale? What Bioinformatics Tells Us." Mar 2017
Cortland YWCA

UPLB Bioinformatics Workshop Instructor Oct 2014
University of Philippines Los Banos

AGA2013: Speciation Continuum and Non-model Population Genomics Workshop Teaching Assistant

M. Scanlon (PI), M. Wu, A. Stroock (co-PI), H. Weatherspoon (co-PI), Y. Sun (co-PI), S. Strickler (program coordinator). Award number 1922551

TRIAD Foundation Jan 2021

U.S. Patent No. 10,557,145: “FLGII-28 sensitivity 3 (FLS3) protein and methods of use”. Inventors: G. B. Martin, S. Hind, S. Strickler. Filed 2014 by the Boyce Thompson Institute, Ithaca, NY. Converted to PCT Application No.PCT/US15/39520, filed July 8, 2015.

U.S. Provisional Application (62/213,409): “Isolated nucleic acids and quantitative trait loci (QTL) from and methods of use thereof for increasing resistance to bacterial speck disease in tomato and other plants”. Inventors: G. B. Martin, S. Hind, S. Strickler, B. Zhilong. Filed 2015 by the Boyce Thompson Institute, Ithaca, NY.

CONFERENCES

Botany July 2022
Workshop: *De novo* genome assembly and annotation with an emphasis on phylogenetic and population genetic studies

Botany July 2021
Workshop: *De novo* genome assembly and annotation with an emphasis on phylogenetic and population genetic studies

Oral presentation: Improving Coffea genome assemblies with long-read data.
Oral presentation: Sol Genomics Network Workshop

Plant and Animal Genome Conference Jan 2015
Oral presentation: Genome assembly strategies of *Coffea arabica.*

lycopersicoides reference genome facilitates insights into tomato specialized metabolism and immunity. *Plant J.* (2022), doi:10.1111/tpj.15770.
4. G. Moghe, **S. Strickler**, metaPathwayMap: A tool to predict metabolic pathway neighborhoods from structural classes of untargeted metabolomics peaks. *bioRxiv* (2022), p. 2022.03.15.484337.
5. J. H. Boyle, **S. Strickler**, A. Twyford, A. Ricono, **A. Powell**, **J. Zhang**, H. Xu, H. J. Dalgleish, G. Jander, A. A. Agrawal, J. R. Puzey, Temporal matches and mismatches between monarch butterfly and milkweed population changes over the past 12,000 years. *bioRxiv* (2022), p. 2022.02.25.481796.
6. **G. Torres-Silva**, L. N. F. Correia, D. S. Batista, A. D. Koehler, S. V. Resende, E. Romanel, D. Cassol, A. M. R. Almeida, **S. R. Strickler**, C. D. Specht, W. C. Otoni, Transcriptome Analysis of *Melocactus glaucescens* (Cactaceae) Reveals Metabolic Changes During in vitro Shoot Organogenesis Induction. *Front. Plant Sci.* **12**, 697556 (2021).
7. **G. Torres-Silva**, L. N. F. Correia, A. D. Koehler, D. S. Batista, D. V. Faria, S. V. Resende, **S. R. Strickler**, J. Fouracre, E. Romanel, C. D. Specht, W. C. Otoni, Expression of *Melocactus glaucescens* SERK1 sheds new light on the mechanism of areolar activation in cacti. *Plant Cell Tissue Organ Cult.* (2021), doi:10.1007/s11240-021-02137-9.
8. L. Feiz, Y. Asakura, L. Mao, **S. R. Strickler**, Z. Fei, M. Rojas, A. Barkan, D. B. Stern, CFM1, a member of the CRM-domain protein family, functions in chloroplast group II intron splicing in *Setaria viridis*. *Plant J.*

15. **S. S.-E.-A. Zaidi**, **R. Z. Naqvi**, M. Asif, **S. Strickler**, S. Shakir, M. Shafiq, A. M. Khan, I. Amin, B. Mishra, M. S. Mukhtar, B. E. Scheffler, J. A. Scheffler, L. A. Mueller, S. Mansoor, Molecular insight into cotton leaf curl geminivirus disease resistance in cultivated cotton (*Gossypium hirsutum*). *Plant Biotechnol. J.* **18**, 691–706 (2020).
16. C. Mazo-Molina, S. Mainiero, B. J. Haefner, R. Bednarek, J. Zhang, A. Feder, K. Shi, **S. R. Strickler**, G. B. Martin, Ptr1 evolved convergently with RPS2 and Mr5 to mediate recognition of AvrRpt2 in diverse solanaceous species. *Plant J.* **103**, 1433–1445 (2020).
17. H. W. Choi, L. Wang, **A. F. Powell**, **S. R. Strickler**, D. Wang, D. A. Dempsey, F. C.

26. E. J. S. Michel, A. M. Hotto, **S. R. Strickler**, D. B. Stern, B. Castandet, A Guide to the Chloroplast Transcriptome Analysis Using RNA-Seq. *Methods Mol. Biol.* **1829**, 295–313 (2018).
27. **R. Z. Naqvi**, **S. S.-E.-A. Zaidi**, K. P. Akhtar, **S. Strickler**

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