Ye Chu

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EDUCATION

Ph.D. in Foods and Nutrition, the University of Georgia, Athens, Georgia, USA (1998 to 2002)
M.S. in Food Science, Tianjin University of Science and Technology, Tianjin, China (1992 to 1995)
B.S. in Food Engineering, Jiangnan University, Wuxi, China (1988 to 1992)

PROFESSIONAL EXPERIENCE

Department of Horticulture, the University of Georgia, Tifton, Georgia
Assistant Professor (Oct. 2022 till now)
Senior Research Associate (2021 to Oct. 2022)
Research Professional IV (2008 to 2021)
Postdoctoral Research Associate (2003 to 2008)

Foods and Nutrition Department, the University of Georgia, Athens, Georgia
Postdoctoral Research Associate (January 2003 to June 2003)

Goodman Fielder International, Beijing, China
District Business Leader (January 1998 to July 1998)
Technical Executive (1995 to 1998)

CULTIVAR AND GERMPLASM RELEASES

Cultivars
TifNV-HG Runner type peanut (2020)
TifJumbo peanut (2020)
TifNV-High O/L peanut (2017)

Germplasm

TifGP-3 (2020)
TifGP-4 (2020)
TifGP-5 (2020)
TifGP-6 (2020)
GA-BatSten1 (2020)
GA-MagSten1 (2020)
IpaDur3-GA-NC (2020)
IpaCor2-GA-NC (2020)
ValSten1-GA-NC (2020)

MAJOR ACCOMPLISHMENTS

- Created peanut nested association mapping populations and multi-parent advanced generation inter-cross (MAGIC) populations.
- Constructed genetic maps and identified major QTL for disease resistance to peanut leaf spot and white mold disease; peanut pod and seed sizes.
- Developed genetic markers for the following traits

a. high oleic acid to linoleic ratio
b. resistance to root-knot nematodes
c. resistance to early and late leaf spots
d. resistance to white mold
e. resistance to tomato spotted wilt virus

- Implemented genetic markers in our breeding program in a high-throughput and cost-efficient manner.
- Released high yielding cultivars packaged with strong disease resistance and specific oil chemistry through marker-assisted selection.
- Created synthetic allotetraploid interspecific hybrids and mapping populations to broaden genetic pool of cultivated peanut.
- Introgressed high level of resistance to TSWV and leafspot into cultivated peanut through interspecific hybridization.
- Released valuable synthetic allotetraploids as germplasm.
- Established a developmental transcriptome map for cultivated peanut and facilitated the release of both wild and cultivated peanut genomes.
- Established the *Agrobacterium rhizogenes*-mediated composite transformation for peanut.
- Silenced major peanut allergens Ara h 2 and 6 through biolistic genetic transformation.

MENTORING AND TEACHING EXPERIENCE

- Served as mentor for high school students through the University of Georgia Young Scholar program.
- Served as mentor for high school teachers through the Georgia Intern-Fellowships for Teachers (GIFT) program.
- Served as workshop host for
    - Marker-assisted-selection session of the Breeder's Genomic Workshop at the University of Georgia, Tifton campus (Dec. 2009).
    - Molecular Biology Lab Workshop for teachers from Abraham Baldwin Agricultural College, Tifton, Georgia (Oct. 2006).
- Guest lectures
    - Introduction to plant biotechnology and DNA and RNA discovery sessions in CRSS 4800/6800 Agricultural Biotechnology, at the University of Georgia (Fall, 2016).
    - Protein Metabolism session in FDNS 6400 Macro-nutrients at the University of Georgia (Fall, 2002)
    - Zinc and Selenium sessions in FDNS 6100 Micro-nutrients at the University of Georgia (Fall, 2001)

AWARDS AND HONORS

- Bailey Award as the co-author of paper titled 'Discovery of a resistant gene cluster associated with smut resistance in peanut' American Peanut Research and Education Society, 2023
- Peanut Research and Education Award for outstanding contributions to the Peanut Industry. Presented by American Peanut Council 2022
- Outstanding genetic resources paper award in Crop Science; paper title: Introgression analysis and morphological characterization of an *Arachis hypogaea* × *A. diogoi* interspecific hybrid derived population, 2020
- Corteva Agriscience Award for Excellence in Research, American Peanut Research and Education Society, 2020
- Bailey Award as the senior author of paper entitled 'Major QTLs for resistance to early and late leafspot diseases are identified in chromosome 3 and 5 in peanut (*Arachis hypogaea*)' American Peanut Research and Education Society, 2019
- Award of excellence for senior scientist – research, College of Agricultural and Environmental Sciences, the University of Georgia, Tifton Campus, 2019

- Certificate of merit for the distinguished contributions to the developing, maintaining and characterizing genetically-structured populations to establish links between gene sequences and key traits in cultivated peanut, the Peanut Genome Consortium, 2014
- International travel funding award to attend Advances in *Arachis* through Genomics and Biotechnology held in Zhengzhou, Henan, China, AAGB Organizing Committee and Program Committee, 2013
- Second place for poster competition at Plant Center Retreat, the University of Georgia, paper title 'Genetic transformation of peanut with Ara h 1_si and EGFP constructs' 2010
- Second place for poster competition at Plant Center Retreat, the University of Georgia, paper title 'Pyramiding nematode resistance and high O/L traits in elite peanut cultivars using marker assisted selection' 2009
- Gary A. Herzog Award for Excellence for Junior Research Scientist, College of Agricultural and Environmental Sciences, the University of Georgia, Tifton Campus, 2009
- Bailey Award as the senior author of paper entitled 'Development of molecular markers to facilitate pyramiding genetic traits in peanut cultivars', American Peanut Research and Education Society, 2008

SOCIETY MEMBERSHIP

- Membership of American Pomological Society (2023 till now)
- Membership of International Society for Horticultural Science (2023 till now)
- Membership of American Society for Horticultural Science (2023 till now)
- Membership of American Peanut Research and Education Society (2004 to 2022)

REFEREED JOURNAL ARTICLES AND BOOK CHAPTERS (total 101)

1. S.S. Gangurde, E. Thompson, S. Yadhuru, H. Wang, J.C. Fountain, Y. Chu, P. Ozias-Akins, T.G. Isleib, C.C. Holbrook, D. Bhabesh, A. Culbreath, M.K. Pandey, B. Guo (2023) Linkage-Mapping and Genome-wide Association Study Identified Two Peanut Late Leaf Spot Resistance Loci, PLLSR-1 and PLLSR-2, Using a Nested Association Mapping. Phytophathology 2023 accepted
2. Dissection of major and stable QTL regions conditioning plant height, primary lateral branch length, and branch number in peanut (*Arachis hypogaea*) JIA accepted
3. S. Conde, J.-F. Rami, D. Okello, A. Sambou, A. Muitia, R. Oteng-Frimpong, L. Makweti, I. Faye, J. Chintu, A. Coulibaly, A. Miningou, J. Asibuo, M. Konate, E. Banla, M. Seye, Y. Djiboune, H. A. Tossim, S. Sylla, D. Hoisington, J. Clevenger, Y. Chu, P. Ozias-Akins, D. Fonceka (2023) The Groundnut improvement network for Africa (GINA) germplasm collection: a unique genetic resource for breeding and gene discovery G3 DOI:10.1093/g3journal/jkad244
4. D. Gimode, Y. Chu, C. C. Holbrook, D. Fonceka, W. Porter, I. Dobreva, B. Teare, H. Ruiz-Guzman, D. Hays, P. Ozias-Akins (2023) High-throughput canopy and below ground Phenotyping of a peanut CSSL population detects lines with increased pod weight and foliar disease tolerance Agronomy 13:1233
5. Y. C. Tsai, T. B. Brenneman, C. C. Holbrook, **Y. Chu**, P. Ozias-Akins, D. J. Bertioli, S.C.M. Leal-Bertioli (2023) Comparison of *in vitro* and greenhouse methods for evaluation of peanut resistance to *Athelia rolfsii* PhytoFrontiers DOI: 10.1094/PHYTOFR-06-22-0069-TA
6. S. Zhang, X. Hu, F. Wang, **Y. Chu**, W. Yang, S. Xu, S. Wang, L. Wu, H. Yu, H. Miao, C. Fu, J. Chen (2023) A stable and major QTL region on chromosome 2 conditions pod shape in cultivated peanut (*Arachis hyopgaea* L.) JIA 8:2323-2334. DOI: 10.1016/j.jia.2023.02.005
7. S. Zhang, X. Hu, F. Wang, H. Miao, **Y. Chu**, W. Yang, F. Cui, X. Sheng, J. Guo, J. Yu, K. Zhou, J. Chen (2023) Genetic dissection of additive and epistatic quantitative trait loci controlling pod number per plant in peanut (*Arachis hypogaea* L.) Euphytica 10.1007/s10681-023-03162-9
8. C. C. Holbrook, J. P. Clevenger, P. Ozias-Akins, **Y. Chu**, and T. B. Brenneman (2023) Registration of 'TifJumbo' Peanut *J. Plant Reg.* accepted

9. C. C. Holbrook, P. Ozias-Akins, **Y. Chu**, T. B. Brenneman, A. K. Culbreath (2023) Registration of 'TifNV-HG' Peanut *J. Plant Reg.* https://doi.org/10.1002/plr2.20295
10. **Y. Chu**, K. M. Marasigan, L. A. Guimaraes, C. C. Holbrook, R. Hovav, P. Ozias-Akins (2022) Phenotypic variation of component traits affecting maturity in cultivated peanut (*Arachis hypogaea* L.) *Peanut Sci.* 49(2): 1-11 https://doi.org/10.3146/0095-3679-492-PS21-18
11. C. Levinson, **Y. Chu**, S. Leal-Bertioli, T. Stalker, C. C. Holbrook, D. Gao, P. Ozias-Akins (2022) Diversity of ultraviolet reflection pattern in *Arachis* flowers. *Peanut Sci.* 49(2), p.12-25. doi: https://doi.org/10.3146/0095-3679-492-PS22-1
12. X. Wang, P. Dang, M. Lamb, **Y. Chu**, C. Holbrook, P. Ozias-Akins, T. G. Isleib, C. Chen, Y. Feng (2022) Variabilities in symbiotic nitrogen fixation and carbon isotope discrimination among peanut (*Arachis hypogaea* L.) genotypes under drought stress *J. Agron. Crop Sci.* http://doi.org/10.1111/jac.12619
13. **Y. Chu**, J. P. Clevenger, C. C. Holbrook, T. G. Isleib, P. Ozias-Akins (2022) Registration of two peanut recombinant inbred lines (TifGP-5 and TifGP-6) resistant to late leaf spot disease. *J. Plant Reg*. https://doi.org/10.1002/plr2.20242
14. S. Kunta, P. Parimi, Y. Levy, C. Kottakota, I. Chedvat, S. Abbo, Y. Chu, P. Ozias-Akins, R. Hovav (2022) A first insight into the genetics of maturity trait in Runner X Virginia types peanut background. *Sci. Rep.* https://doi.org/10.1038/s41598-022-19653-z
15. S. Kunta, **Y. Chu**, Y. Levy, S. Abbo, P. Ozias-Akins, R. Hovav (2022) Identification of a major locus for flowering pattern sheds light on plant architecture diversification in cultivated peanut. *TAG* https://doi.org/10.1007/s00122-022-04068-1
16. C. Ballén-Taborda, **Y. Chu**, P. Ozias-Akins, C. C. Holbrook, P. Timper, S. A. Jackson, D. Bertioli, S. Bertioli (2021) Development and genetic characterization of peanut advanced backcross lines that incorporate root-knot nematode resistance from *Arachis stenosperma. Front. Plant Sci*. 12:785358. https://dx.doi.org/10.3389/2Ffpls.2021.785358
17. K. D., Chamberlin, J. Baldessari, R. S. Bennett, J. P. Clevenger, C. C. Holbrook, S. P. Tallury, W. Korani, **Y. Chu**, P. Ozias-Akins, M. B. Conde, M. E. Payton (2022) Identification of germplasm resistant to peanut smut. *Peanut Sci.* 10.3146/0095-3679-491-ps21-10
18. W. Korani, D. O'Connor, **Y. Chu**, C. Chavarro, C. Ballen, B. Guo, P. Ozias-Akins, G. Wright, J. Clevenger (2021) De novo QTL-seq identifies loci linked to blanchability in peanut (*Arachis hypogaea*) and refines previously identified QTL with low coverage sequence. *Agronomy* 11:(11) 2201 https://doi.org/10.3390/agronomy11112201
19. C. M. Levinson D. Bertioli, **Ye Chu**, M. Hopkins, S. C. M. Leal-Bertioli, H. T. Stalker, D. Gao and P. Ozias-Akins (2021) Development and applications of KASP markers distinguishing A- and B/K-genomes of *Arachis Euphytica* 217, 196. https://doi.org/10.1007/s10681-021-02923-8
20. C. M. Levinson, E. Antepenko, S.C.M. Leal-Bertioli, **Y. Chu**, A. K. Culbreath, H. T. Stalker, D. Gao, and P. Ozias-Akins (2021) Resistance to rust (*Puccinia arachidis* Speg.) identified in nascent allotetraploids cross-compatible with cultivated peanut (*Arachis hypogaea*). *Peanut Sci.* https://doi.org/10.3146/PS21-4.1
21. C. Corley Holbrook, P. Ozias-Akins, **Y. Chu**, S. Lamon, D. J. Bertioli, S.C.M. Leal-Bertioli, A. K. Culbreath, and I. J. Godoy (2021) Registration of TifGP-3 and TifGP-4 Peanut Germplasm Lines *J. Plant Reg.* https://doi.org/10.1002/plr2.20179
22. D. J. Bertioli, J. Clevenger, I. J. Godoy, H. T. Stalker, S. Wood, J. Santos, C. Ballén-Taborda, B. Abernathy, V. Azevedo, J. Campbell, C. Chavarro, **Y. Chu**, A. D. Farmer, D. Fonceka, D. Gao, J. Grimwood, N. Halpin, W. Korani, M. Michelotto, P. Ozias-Akins, J. N. Vaughn, R. C. Youngblood, M. Moretzsohn, G. Wright, S. A. Jackson, S. B. Cannon, B. E. Scheffler, S.C.M. Leal-Bertioli (2021) Legacy genetics of *Arachis cardenasii* in the peanut crop shows the profound benefits of international seed exchange *PNAS* https://doi.org/10.1073/pnas.2104899118
23. X. Wang, X. Yang, Y. Feng, P. Dang, R. Graze, J. Clevenger, **Y. Chu**, P. Ozias-Akins, C. Holbrook, C. Y. Chen (2021) Transcriptome profile reveals drought induced genes preferentially expressed in response to water deficit in cultivated peanut (*Arachis hypogaea* L.) *Front. Plant Sci.* https://doi.org/10.3389/fpls.2021.645291

24. S. Kunta, S. Agmon, I. Chedvat, Y. Levy, **Y. Chu**, P. Ozias-Akins, R. Hovav (2021) Identification of stable QTL for time-to-maturation in Virginia-type peanut (*Arachis hypogaea* L.) *BMC Plant Biol.* DOI: https://doi.org/10.21203/rs.3.rs-200335/v1
25. C. M. Levinson, **Y. Chu**, M. Levinson, K. Marasigan, H. T. Stalker, C. C. Holbrook, and P. Ozias-Akins (2021) Anatomical characteristics correlated to peg strength in *Arachis Peanut Sci.* https://doi.org/10.3146/PS21-1.1
26. D. J. Bertioli, D. Gao, C. Ballen-Taborda, **Y. Chu**, P. Ozias-Akins, S. A. Jackson, C. C. Holbrook, S. C.M. Leal-Bertioli (2021) Registration of GA-BatSten1 and GA-MagSten1, two induced allotetraploids derived from peanut wild relatives with superior resistance to leaf spots, rust and root-knot nematode *J. Plant Reg.* https://doi.org/10.1002/plr2.20133
27. **Y. Chu**, H. T. Stalker, K. Marasigan, C. M. Levinson, D. Gao, D. J. Bertioli, S. C. M. Leal-Bertioli, C. C. Holbrook, S. A. Jackson, P. Ozias-Akins (2021) Registration of three peanut allotetraploid interspecific hybrids resistant to late leaf spot disease and tomato spotted wilt *J. Plant Reg.* 1-11. https://doi.org/10.1002/plr2.20146
28. C. Ballén-Taborda, **Y. Chu**, P. Ozias-Akins, P. Timper, S. A. Jackson, D. J. Bertioli and S. C.M. Leal-Bertioli (2021) Validation of resistance to root-knot nematode incorporated in peanut from the wild relative *Arachis stenosperma*. *Agron. J.* https://doi.org/10.1002/agj2.20654
29. **Y. Chu**, D. Bertioli, C. M. Levinson, H. T. Stalker, C. C. Holbrook, P. Ozias-Akins (2021) Homoeologous recombination is recurrent in the nascent synthetic allotetraploid *A. ipaënsis* x *A. correntina*^{4x} and its derivatives *G3 Genes|Genomes|Genetics* https://doi.org/10.1093/g3journal/jkab066
30. S. Zhang, X. Hu, H. Miao, **Y. Chu**, F. Cui, W. Yang, S. Xu, J. Guo, C. Fu, X. Song, M. Hou, J. Qiu, J. Chen (2021) Imaged-based phenotyping accelerated QTL mapping and QTL x environment interaction analysis of testa color in peanut (*Arachis hypogaea* L.) *Plant Breeding* doi/10.1111/pbr.12905
31. C. M. Levinson, **Y. Chu**, X. Luo; H. T. Stalker, D. Gao, C. C. Holbrook, P. Ozias-Akins (2021) Morphological and reproductive characterization of nascent allotetraploids cross-compatible with cultivated peanut (*Arachis hypogaea*) *Genet. Resour. Crop Evol.* https://doi.org/10.1007/s10722-021-01161-0
32. D. Gimode, **Y. Chu**, L. Dean, C. Holbrook, D. Fonceka and P. Ozias-Akins (2020) Seed composition survey of a peanut CSSL population reveals introgression lines with elevated oleic/linoleic profile. *Peanut Sci.* 47:139-149 https://doi.org/10.3146/PS20-17.1
33. P. Otyama, R. Kulkarni, K. Chamberlin, P. Ozias-Akins, **Y. Chu**, L. Lincoln, M. Gregory, N. Anglin, S. Dash, D. Bertioli, D. Fernandez-Baca, M. Graham, S. Cannon, and E. Cannon (2020) Genotypic characterization of the U.S. peanut core collection *G3 Genes|Genomes|Genetics* 10:4013-4026 https://doi.org/10.1534/g3.120.401306
34. C. M. Levinson, K. M. Marasigan, **Y. Chu**, H. T. Stalker, C. C. Holbrook, X. Ni, W.P. Williams, P. Ozias-Akins (2020) Resistance to fall armyworm (Lepidoptera: Nicotuidae) feeding identified in nascent allotetraploids cross-compatible to cultivated peanut (*Arachis hypogaea* L.). *Peanut Sci.* 47:123-134. https://doi.org/10.3146/PS20-13.1
35. J. Fountain, J. Clevenger, B. Nadon, R. Youngblood, W. Korani, P.K. Chang, D. Starr, H. Wang, B. Isett, H. Johnston, R. Wiggins, G. Agarwal, **Y. Chu**, R. Kemerait, M. Pandey, D. Bhatnagar, P. Ozias-Akins, R. Varshey, B. Sheffler, J. Vaughn, B. Z. Guo (2020) Two new chromosome-level ***Aspergillus flavus*** reference genomes reveal a large insertion potentially contributing to isolate stress tolerance and aflatoxin production. *G3 Genes|Genomes|Genetics* 10:3515-3531.
36. S. Lamon, **Y. Chu**, L. Guimaraes, D. Bertioli, S. Bertioli, J. F. Santos, I. J. Godoy, A. K. Culbreath, C.C. Holbrook, P. Ozias-Akins (2020) Characterization of peanut lines with interspecific introgressions conferring late leaf spot resistance. *Crop Sci*. https://doi.org/10.1002/csc2.20414
37. C. Chavarro, **Y. Chu**, C. C. Holbrook, T. Isleib, D. Bertioli, R. Hovav, C. Butts, L. Marshall, R. Sorensen, S. Jackson, and P. Ozias-Akins (2020) Pod and seed trait QTL identification to assist breeding for peanut market preferences *G3 Genes|Genomes|Genetics* 10: 2297-2315 https://doi.org/10.1534/g3.120.401147

38. H. Zhang, **Y. Chu**, P. Dang, Y. Tang, J. Li, T. Jiang, J. P. Clevenger, P. Ozias-Akins, C. Holbrook; M. L. Wang, A. Jacobson, H. Campbell A. Hagan, C. Chen (2020) Identification of QTLs for resistance to leaf spots in cultivated peanut (*Arachis hypogaea* L.) through GWAS analysis *TAG* 133:2051-2061 doi.org/10.1007/s00122-020-03576-2
39. Z. Peng, Z. Zhao, J. P. Clevenger, **Y. Chu**, D. Paudel, P. Ozias-Akins and J. Wang (2020) Comparison of SNP Calling Pipelines and NGS Platforms to Predict the Genomic Regions Harboring Candidate Genes for Nodulation in Cultivated Peanut *Front. Genetics* 11:222. doi:10.3389/fgene.2020.00222
40. R. Cui, J. Clevenger, **Y. Chu**, T. Brenneman, T. G. Isleib, C. C. Holbrook and P. Ozias-Akins (2020) QTL-seq-derived molecular markers for selection of stem rot (*Sclerotium rolfsii*) resistance in peanut (*Arachis hypogaea*) *Crop Sci*. 1:11 https://doi.org/10.1002/csc2.20047
41. Z. Luo, R. Cui, C. Chavarro, Y. Tseng, H. Zhou, Z. Peng, **Y. Chu**, X. Yang, Y. Lopez, B. Tillman, N. Dufault, T. Brenneman, T. G. Isleib, C. Holbrook, P. Ozias-Akins, J. Wang (2020) Mapping quantitative trait loci (QTL) and estimating the epistasis controlling stem rot resistance in cultivated peanut (*Arachis hypogaea*) *TAG* 133:1201-1212.
42. S. S. Gangurde, H. Wang, S. Yaduru; M. Pandey, J. Fountain, **Y. Chu**, T. Isleib, C. Holbrook, A. Xavier, A. Culbreath, P. Ozias-Akins, R. Varshney, B. Guo, (2020) Nested-association mapping (NAM) based genetic dissection uncovers candidate genes for seed and pod weights in peanut (*Arachis hypogaea*) *Plant Biotchnol. J.* 18:1457-1471 doi: 10.1111/pbi.13311
43. **Y. Chu**, P. Chee, T. G. Isleib, C. C. Holbrook, P. Ozias-Akins (2020) Major seed size QTL on chromosome A05 of peanut (*Arachis hypogaea*) is conserved in the U.S. mini core germplasm collection. *Mol. Breeding* 40:6 https://doi.org/10.1007/s11032-019-1082-4
44. S. Zhang, X. Hu, H. Miao, **Y. Chu**, F. Cui, W. Yang, C. Wang, Y. Shen, T. Xu, L. Zhao, J. Zhang, J. Chen (2019) QTL identification for seed weight and size based on a high-density SLAF-seq genetic map in peanut (*Arachis hypogaea* L.) *BMC Plant Biology* 19:537 https://doi.org/10.1186/s12870-019-2164-5
45. D. Oppong-Sekyere, R. Akromah, **Y. Chu**, P. Ozias-Akins, and D. Gimode Phylogenetic assessment of selected Ghanaian groundnuts, in reference to U.S. mini-core based on kompetitive allele-specific PCR (KASP) and axiom single nucleotide polymorphism (SNP) array protocols (2019) *J. Agric. Biotech. Sustain. Dev*. 11:27-38 https://doi.org/10.5897/JABSD2018.0333
46. C Ballén-Taborda, **Y. Chu**, P. Ozias-Akins, P. Timper, C. C. Holbrook, S. Jackson, D. Bertioli, and S. Leal-Bertioli (2019) A new source of root-knot nematode resistance from *Arachis stenosperma* incorporated into allotetraploid peanut (*Arachis hypogaea*) *Sci. Rep*. 9:17702 https://doi.org/10.1038/s41598-019-54183-1
47. **Y. Chu**, P. Chee, C.C. Holbrook, T.G. Isleib, A.K. Culbreath and P. Ozias-Akins (2019) Major QTLs for resistance to early and late leaf spot diseases are identified on chromosomes 3 and 5 in peanut (*Arachis hypogaea*) *Front. Plant Sci.* 10:833 https://doi.org/10.3389/fpls.2019.00883
48. W. Korani, J. P. Clevenger, **Y. Chu**, P. Ozias-Akins 2019. Machine learning as an effective method for identifying true SNPs in polyploid plants. The Plant Genome 12. doi:10.3835/plantgenome2018.05.0023
49. P. I. Otyama, A. Wilkey, R. Kulkarni, T. Assefa, **Y. Chu**, J. Clevenger, D. O'Connor, G. Wright, S. W. Dezern, G. E. Macdonald, N. L. Anglin, E. K. S. Cannon, P. Ozias-Akins, S. B. Cannon (2019) Evaluation of linkage disequilibrium, population structure, and genetic diversity in the U.S. peanut mini core collection *BMC Genomic*s 20:481 https://doi.org/10.1186/s12864-019-5824-9
50. D. Bertioli, J. Jenkins, J. Clevenger, O. Dudchenko, D. Gao, G. Seijo, S. Leal-Bertioli, L. Ren, A. Farmer, M. K. Pandey, S. Samoluk, B. Abernathy, G. Agarwal, C. Ballen, C. Cameron, J. Campbell, C. Chavarro, A. Chitikineni, **Y. Chu**, S. Dash, M. Elbaidouri, B. Guo, W. Huang, K. D. Kim, W. Korani, S. Lanciano, C. G. Lui, M. Mirouze, M. Moretzsohn, M. Pham, J. H. Shin, K. Shirasawa, S. Shu, S. S. Sinaroy, A., N. T. Weeks, X. Y. Zhang, Z. Zheng, Z. Q. Sun, L. Froenicke, R. K. Varsheny, E. L. Aiden, R. Michelmore, C. C. Holbrook, E. K. S. Cannon, B. E. Sheffler, J. Grimwood, P. Ozias-Akins, S. B. Cannon, S. A. Jackson and J. Schmutz (2019) The genome sequence of segmental allotetraploid peanut *Arachis hypogaea*. *Nature Genetics* 51: 877-884 https://doi.org/10.1038/s41588-019-0405-z
51. W.G. Hancock, W.G., S.P. Tallury, T.G. Isleib, **Y. Chu**, P. Ozias-Akins and H.T. Stalker (2018) Introgression analysis and morphological characterization of an *Arachis hypogaea* × *A. diogoi* interspecific hybrid derived population. *Crop Sci*. doi: 10.2135/cropsci2018.07.0461.

52. W. Yuan, C.C. Holbrook, **Y. Chu**, P Ozias-Akins, DW Dickson. (2018) Influence of temperature on susceptibility of cultivars Tifguard and Georgia-06G peanut to *Meloidogyne arenaria*. *J. Nematology* 50: 33-40. https://dx.doi.org/10.21307%2Fjofnem-2018-006
53. A. S. Patil, S. Popovsky, Y. Levy, **Y. Chu**, J. Cleavenger, P. Ozias-Akins, R. Hovav (2018) Genetic insight and mapping of the pod constriction trait in virginia-type peanut *BMC Genetics* 19**:**93
54. G. Agarwal, J. Clevenger, M.Pandey, H. Wang, Y. Shasidhar, **Y. Chu**, J. Fountain, D.Choudhary, A. Culbreath, X. Liu, G. Huang, X. Wang, R. Deshmukh, C.C. Holbrook, D. Bertioli, P. Ozias-Akins, S. Jackson, R. Varshney, B. Guo (2018) High-density genetic map using whole-genome re-sequencing for fine mapping and candidate gene discovery for disease resistance in peanut *Plant Biotech J.* https://doi.org/10.1111/pbi.12930
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MANUSCRIPT REVIEWING EXPERIENCE

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Reviewed 28 manuscripts for Plants, Plant Cell Reports, Crop Science, Peanut Science, International Archives of Allergy and Immunology, BMC Biology, Molecular Biology Reports, Euphytica and Theoretical and Applied Genetics, Plos One.

PRESENTATIONS AND ABSTRACTS (total 86)

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