

**Peer-Reviewed Publications** (chronological order)

1. **Lin CY**, Vuu K, Amer B, Shih PM, Baidoo EEK, Scheller HV and Eudes A. Production of the polyester precursor 2-pyrone-4,6-dicarboxylic acid in plants: Stacking reduced biomass recalcitrance with value-added coproduct (2021). *Metabolic engineering* (Accepted).
2. **Lin CY**, Donohoe BS, Yang HB, Yunes M, Sarai NS, Shollenberger T, Bomble YJ, Decker SR, Chen XW, Tucker MP, Wei H and Himmel ME. Iron incorporation improves the yield and saccharification of switchgrass (*Panicum virgatum* L.) biomass (2021). *Biotechnology for Biofuel* 14, 55.
3. Wang W, Knoshaug EP, Wei H, Van Wychen S, **Lin CY**, Vander Wall T, Xu Q, Himmel ME and Zhang M. High titer fatty alcohol production in *Lipomyces starkeyi* by fed-batch fermentation (2020). *Current Research in Biotechnology*, 2: 83-87.
4. **Lin CY** and Eudes A. Strategies for the production of biochemicals in bioenergy crops. (2020). *Biotechnology for Biofuels*, 13: 71.
5. Wei H, Wang W, Alper HS, Xu Q, Knoshaug EP, Wychen SV, **Lin CY**, Luo YH, Decker SR, Himmel ME, Zhang M. (2019). Ameliorating the metabolic burden of the co-expression of secreted fungal cellulases in a high lipid-accumulating *Yarrowia lipolytica* strain by medium C/N ratio and a chemical chaperone. *Frontiers in Microbiology*, 9: 3276.
6. Wang JP, Matthews M, Shi R, Yang C, Tunlaya-Anukit S, Chen HC, Li Q, Liu J, **Lin CY**, Naik P, Sun YH, Loziuk PL, Yeh TF, Kim H, Gjersing E, Shollenberger T, Shuford CM, Song J, Miller Z, Huang YY, Edmonds CW, Lin YC, Wei Li, Chen H, Peszlen I, Williams CM, Ducoste JJ, Ralph J, Chang H, Muddiman DC, Davis M, Smith C, Isik F, Sederoff RR, Chiang VL (2018). Integrative analysis of lignin biosynthesis to improve wood properties. *Nature Communications*, 9: 1579.
7. **Lin CY**, Donohoe BS, Ahuja N, Garrity DM, Qu R, Tucker MP, Himmel ME, and Wei H (2017). Evaluation of parameters affecting switchgrass tissue culture: toward a consolidated procedure for *Agrobacterium*-mediated transformation of switchgrass (*Panicum virgatum*). *Plant Methods*, 13:113.
8. Bomble YJ, **Lin CY**, Amore A, Wei H, Holwerda EK, Ciesielski PN, Donohoe BS, Decker SR, Lynd LR, and Himmel ME (2017). Lignocellulose deconstruction in the biosphere. *Current Opinion in Chemical Biology*, 41:61-70.
9. **Lin CY**, Jakes JE, Donohoe BS, Ciesielski PN, Yang H, Gleber SC, Vogt S, Ding SY, Peer WA, Murphy AS, McCann MC, Himmel ME, Tucker MP, Wei H (2016). Directed plant cell-wall accumulation of iron: embedding co-catalyst for efficient biomass conversion. *Biotechnology for Biofuels*, 9: 225.
10. Amore A, Ciesielski PN, **Lin CY**, Salvachúa D, Nogué VS (2016). Development of lignocellulosic biorefinery technologies: recent advances and current challenges. *Australian Journal of Chemistry*, 69: 1201-1218.

11. **Lin CY**, Li Q, Tunlaya-Anukit S, Shi R, Sun YH, Wang JP, Liu J, Loziuk P, Edmunds CW, Miller ZD, Peszlen I, Muddiman DC, Sederoff RR and Chiang VL (2016). A cell wall-bound anionic peroxidase, PtrPO21, is involved in lignin polymerization in *Populus trichocarpa*. *Tree Genetics and Genomes*, 12: 1-18.
12. Zhao S, Wei H, **Lin CY**, Zeng YI, Tucker MP, Himmel ME, and Ding SY (2016). *Burkholderia phytofirmans* inoculation-induced changes on the shoot cell anatomy and iron accumulation reveal novel components of *Arabidopsis*-endophyte interaction that can benefit downstream biomass deconstruction. *Frontiers in Plant Science*, 7: 24.
13. **Lin CY\***, Wang JP\*, Chen HC, Liu J, Sederoff RR, Chiang VL (2015). 4-Coumaroyl and caffeoyl shikimic acids inhibit 4-coumaric acid: coenzyme A ligases and modulate metabolic flux for 3-hydroxylation in monolignol biosynthesis of *Populus trichocarpa*. *Molecular Plant*, 8: 176-187.  
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14. Loziuk PL, Parker J, Li W, **Lin CY**, Wang JP, Quanzi Li, Sederoff RR, Chiang VL, and Muddiman DC (2015). Elucidation of xylem-specific transcription factors and absolute quantification of enzymes regulating cellulose biosynthesis in *Populus trichocarpa*. *Journal of Proteome Research*, 14: 4158-4168.
15. Lin YC, Li W, Chen H, Li Q, Sun YH, Shi R, **Lin CY**, Wang JP, Chen HC, Chuang L, Qu G, Sederoff RR, Chiang VL (2014). A simple improved-throughput xylem protoplast system for studying wood formation. *Nature protocols*, 9: 2194-2205.
16. Li W, Lin YC, Li Q, Shi R, **Lin CY**, Chen H, Chuang L, Guan ZQ, Sederoff RR, Chiang VL (2014). A robust chromatin immunoprecipitation protocol for studying transcription factor–DNA interactions and histone modifications in wood-forming tissue. *Nature protocols*, 9: 2180-2193.
17. Wang JP, Naik PP, Chen HC, Shi R, **Lin CY**, Liu J, Shuford CM, Li Q, Sun YH, Tunlaya-Anukit S, Williams CM, Muddiman DC, Ducoste JJ, Sederoff RR, Chiang VL (2014). Complete proteomic based enzyme reaction and inhibition kinetics reveal how monolignol biosynthetic enzyme families affect metabolic-flux and lignin. *The Plant Cell*, 26, 894-914.
18. Liu W, Chen, JR, Hsu, CH, Li, YH, Chen, YM, **Lin CY**, Huang, SJ, Chang ZK, Chen, YC, Lin, CH, Gong, HY, Lin, CC, Kawakami K and Wu JL (2012). A zebrafish model of intrahepatic cholangiocarcinoma (ICC) by dual expression of hepatitis B virus X and hepatitis C virus core protein in liver. *Hepatology*, 56, 2268-2276

### **Book Chapters** (chronological order)

1. **Lin CY**, Wei H, Tucker MP, Donohoe BS and Himmel ME. An improved leaf protoplast system for highly efficient transient expression in switchgrass (*Panicum virgatum* L.) (2020). *Metabolic Pathway Engineering: Methods and Protocols*. 61-79
2. Decker SR, Sheehan J, Dayton DC, Bozell JJ, Adney WS, Aden A, Hames B, Thomas SR, Bain RL, Brunecky R, **Lin CY**, Amore A, Chen XW, Tucker MP, Czernik S, Sluiter A, Zhang M, Magrini K, and Himmel ME (2017). Biomass Conversion. *Handbook of Industrial Chemistry and Biotechnology*. 285-419].