

Talking Biotech: Winning the disease resistance ‘arms race’ against plant pathogens to ensure food security

Plant disease resistance is a complicated arms race between the plant and pathogens. Bacteria, viruses and fungi evolve in lock-step with plants, creating new ways to overcome new disease resistance strategies. Resistance to disease has a foundation in the gene-for-gene model, a model that hypothesizes that plants and pathogens have a molecular relationship with each other that mediates pathogenicity.

Today’s podcast features Drs. Lida Derevnina and Chih-Hang Wu, postdoctoral researchers with Sophien Kamoun ([@KamounLab](#)) at the Sainsbury Laboratory ([@TheSainsburyLab](#)) in Norwich, England. They describe [the new thinking of disease resistance](#) as a number of complex layers that integrates many gene-for-gene interactions with other mechanisms in mediating plant defense.

https://geneticliteracyproject.org/wp-content/uploads/2018/08/145-Disease_resistance_gene_networks.mp3

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