**Title: Breeding Crops for Resilience to a Changing Climate**

Pamela C. Ronald

The rapid advance of genetic technologies has provided new tools to generate crops that are resilient to climate change, resistant to infection and that can better sequester carbon. Professor Pamela Ronald will review the development of Sub1 climate-resilient rice varieties and XA21-mediated resistance to bacterial infection. She will discuss new high-throughput strategies to engineer new genes conferring resistance to rice blast disease.