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The goal of my project is to develop a concise method to express pathogen-associated molecular patterns (PAMPs) from *Phytophthora infestans* in bacteria. This is necessary in order to challenge model plants (such as *Arabidopsis thaliana* and *Nicotiana benthamiana*) and to activate their pathogen-recognition receptor (PRR)-mediated immunity without using *P. infestans* itself. Using an efficient method to trigger this defense will enable us to identify novel PRR genes in tomato.