Oklahoma State University
Biological Safety
Agent Specific Risk Assessment Form
Plant Pathogens/Pests

PART A: Please provide the following general information:

Person Responsible for this Work (the Principal Investigator)	
Name:	Position:
Department:	Phone No.:
Campus Address:	E-mail:
Research Location/Address:	

Person Conducting this Risk Assessment	
Name:	Position:
Date Risk Assessment was performed:	Type of Assessment: ☐ Initial ☐ Annual
Department:	Phone No.:
Campus Address:	E-mail:

PART B: Please provide specific information regarding the use of biological agents in your laboratories/facilities.

BIOLOGICAL AGENT(S)		
Name(s)	Risk Group Classification*	Recommended Biosafety Level

Have any of the above agents been genetically modified in any way? ☐ yes ☐ no
IF YES, PLEASE DESCRIBE IN DETAIL IN AN ATTACHMENT:

PART C: In response to the items that follow, please describe all hazards associated with the agents listed in Part B via an attachment.

1. Describe the origin of the agent(s). Is the organism(s) endogenous or exotic to the United States/Oklahoma?

2. Describe the type and severity of the plant disease(s) that can be caused by the agent(s) and strain(s) to be used.

3. Are any of the agents capable of causing disease or other harm in animals or humans? If yes, describe in detail and include details of the medical surveillance program in place for each agent(s).

4. For all agents listed in Part B, describe all routes of transmission (e.g. air-borne, water-borne, soil-borne, direct contact, etc.).

5. Is the strain(s) you work with attenuated or does it have an increased virulence?

6. In what form is the agent present (e.g. spores, vegetative bacteria, mycelium, etc.), and are there any issues about the agent's robustness, including any resistance to chemical disinfectants?

7. Is there any known or suspected drug resistance amongst the strains to be used?

8. What is the host range? What is the location and proximity of suitable hosts?

9. Are there any vectors involved in the disease cycle? Are they present in or near the containment facility?

10. Can the organism affect plant progeny via seed transmission?

11. What is the infectious dose? What will be the concentration and volume of the agent in the lab?

12. Will the work be restricted to the lab or conducted in a greenhouse or field plot? What time of year will the work be done? Will whole plants be used?

13. How stable is the agent(s) in the environment?

14. What is the capacity to control or eradicate the organism if it escapes?

15. What measures will be used to avoid dissemination of the organism beyond the laboratory or greenhouse?

* *OSU Biological Research Safety Plan*