

Project « SYTRANSPOM »

“Development of collaborative and innovative alert and decision systems promoting integrated protection against fungal potato diseases”

J. Rivière¹, B. De Mey¹, P. Vanhaverbeke², K. Cornelissen², K. Demeulemeester³, C. Hannon⁴, R. Valade⁴, D. Gaucher⁴, B. Houilliez⁵, O. Mahieu¹, D. Lanterbecq¹

Aims of the Project

Potatoes are economically important crop in Belgium and France. Fungal potato pathogens cause many damages in crops. The most important fungal pathogens are *Phytophthora infestans* and *Alternaria solani*, responsible of late blight and early blight, respectively. SYTRANSPOM, a collaborative cross-border research project, was set up in order to develop and/or improve alert and decision support systems for potato crop. This project brings together 4 partners in each of the three regions : ARVALIS (Fr), CARAH (W), PCA and INAGRO (VI).

Development of a cross-border collaborative platform to centralize known data (as climatic and soil data, ...) and register new data collected from weather forecasting, precision farming, field trials and laboratory experiments.

Development of laboratory qualitative and quantitative molecular methods to characterize fungal pathogens in the field.

Development of complete decision support systems for potato crop, incorporating alert/warning systems for several foliar pathogens.

Implementation of experimental field trials, with the support of molecular tools, to obtain early diagnosis of infections, monitoring the development of diseases and improving methods of protection.

SYTRANSPOM

