

Method of protecting economically important plants, especially vascular plants, against bacterial pathogens

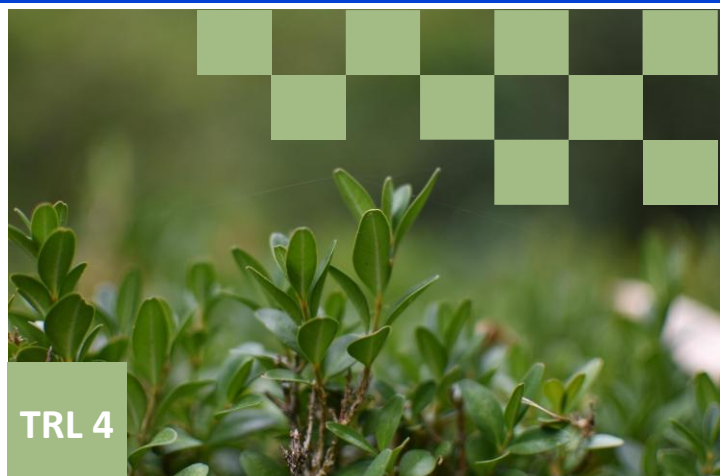
About technology

The subject of the offer is a method of protecting economically important plants, especially vascular plants, against bacterial pathogens by directly treating the seeds of these plants with cold atmospheric plasma (CAP).

This plasma is generated in a plasma pen as a result of initiating dielectric barrier discharge (DBD).

The solution demonstrates the effectiveness of CAP, generated by initiating DBD in a helium atmosphere in a plasma pen, for the eradication of economically important bacterial phytopathogens.

As a result of the effective inactivation of plant pathogenic bacteria cells, it would be possible to reduce crop losses and thus ensure access to high-quality food for a growing human population. In this context, it is important that the selected method is effective, environmentally friendly and inexpensive, which is why the subject of the reported invention is a method of protecting economically important plants against bacterial pathogens by direct treatment of seeds with CAP.



TRL 4

Research Team

University of Gdańsk:

prof. Ewa Łojkowska
dr Wojciech Śledź
dr Agata Pomagruk
Dr Weronika Babińska-Wensierska
Jakub Orłowski, MA
Michał Prusiński, MA

Wrocław University of Science and Technology:

Anna Dzimitrowicz
Piotr Jamróz
Paweł Pohl
Dominik Terefinko

IP Protection

The invention is the subject of polish patent application: **P. 438360**

Implementation progress

TRL 4 –Technology validated in laboratory conditions

Cooperation opportunities

- Licensing agreement
- Transfer of ownership
- Spin off