

Inactivation of dry-air mycelium *Phytophthora* spp by argon nonthermal plasma jet

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Laboratory experiments were performed to the non-thermal plasma jet effect on a dry-air *Phytophthora* spp. mycelium. Anti-*Phytophthora* activity of the argon plasma was taken into account by amount changing of *Phytophthora* colony forming units on a dense nutrient medium in Petri dishes. The inhibition degree of the CFU number from the control exceeded 90 %. The antifungal effect severity of the plasma jet depended on a plasma exposure duration to dry-air mycelium.

Keywords: cold plasma, argon microwave plasma, *Solanum tuberosum* L., phytopathogens, *Phytophthora* spp., late blight.

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