

Fasciation of sweet peas caused by *Phytomonas fascians* n. sp.

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Fasciation of Sweet Peas caused by *Phytomonas fascians*

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Journal article : [Journal of Agricultural Research](#) 1936 Vol.53 No.5 pp.383-394 pp.

Abstract : An amplified account is given of the writer's investigations on fasciation of winter-flowering sweet peas in Ohio [*R.A.M.*, xiv, p. 365; xv, p. 723]. The disease is caused by a hitherto undescribed bacterium which is named *Phytomonas fascians* [*Rhodococcus fascians*] n.sp. It is a non-motile, aerobic, non-sporulating, positive, non-acid-fast rod, 1.5 to 4 μ long by 5 to 0.9 μ in diameter (average 2.5 μ by 0.7 μ). It has no diastatic action, does not liquefy gelatine, reduces litmus in the bottom of tubes, produces hydrogen sulfide and ammonia, reduces nitrates, and does not

indol. On potato dextrose agar it forms cadmium yellow to deep chrome or colonies, and in broth produces a slight turbidity with sediment and a thin, f with a rim on the surface. It grows at temperatures from 7° to 35° C., with a between 25° and 28°; thermal death point between 55° and 57° with 10 min exposure. It retained its virulence in potato dextrose agar culture for over 1 The bacterium was experimentally shown to be pathogenic to all the varieties peas tested, and to garden peas, petunias [*Petunia hybrida*], geraniums [*Pe tobacco*, and *Gypsophila paniculata* plants. It has also been isolated from fasc growths on a chrysanthemum received from New Jersey.

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Indexing terms for this abstract:

Organism descriptor(s) : Bacteria, Chrysanthemum, Gypsophila, Gypsophila paniculata, odoratus, Nicotiana, Pelargonium, Petunia, Petunia hybrida, Phytomonas, Pisum : Rhodococcus fascians

Descriptor(s) : ammonia, cadmium, fasciation, glucose, hydrogen sulfide, new species, pathogenicity, pathogens, peas, plant pathogenic bacteria, plant pathogens, section peas, taxonomy, temperature, tobacco, varieties, virulence

Identifier(s) : bacterium, dextrose, hydrogen sulphide, pea, phytopathogenic bacteria, phytopathogens, plant-pathogenic bacteria, Rhodococcus, systematics, United States of America

Geographical Location(s) : New Jersey, Ohio, USA

Broader term(s) : Asteraceae, Asterales, eudicots, angiosperms, Spermatophyta, eukaryotes, Caryophyllaceae, Caryophyllales, Gypsophila, Lathyrus, Papilionoideae, Fabales, Solanaceae, Solanales, Geraniaceae, Geraniales, Petunia, Trypanosomatida, Kinetoplastida, Sarcomastigophora, Protozoa, Pisum, Rhodococcus (Bacteria), Nitrospirae, Corynebacterineae, Actinomycetales, Actinobacteridae, Actinobacteria, Bacteria, Middle Atlantic States of USA, Northeastern States of USA, USA, APEC countries, Countries, North America, America, OECD Countries, Corn Belt States of USA, North States of USA, East North Central States of USA

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