phenoloxidases. They produced a significant increase in browning of slices without affecting PHY accumulation. F) Oxyadicals seavenges energines SOD and CAT algibility reduced the browning and only after 1 day of incubation. G) Phenykhiouse, a strong irreversible inhibitor of phenoloxidases, fully inhibited browning at 20 use/slice without affecting PHY accumulation.

pg/stock without attracting PTV accumulation.

This clearly indicates that the metabolic events leading to PHY accumulation and to browning process are not necessarily interdependent.

BROMINATED METABOLITES OF PSEUDOMONAS SYRINGAE PV. SYRINGAE

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The B-300 syningeruptin and the B-477 syringerostin predicting strains of Perdomental syringer per gringe have been grown in the SMCC chunically deficied medium of Surion, Levermiccea and Incodella (Phytopoth, Mediz, 27), 163-168, 1978; in which thinden choloride has been predicted to the prediction of the predicti

Data concerning the chemical characterization and the biological activity of the

above metabolites will be reported.

Mass spectral data were obtained at Servizio di Spentrometria di Massa del CMR. University of Naples. This work has been supported by the Italian Ministry for the University and for Scientific and Technological Research, as well as by creates of the Italian Research Council (CNR) Progetto Finalizzaro «Chimica Fine

PRELIMINARY RESULTS ON THE PRESENCE OF SYRINGOMYCIN-LIKE SUBSTANCES IN BEAN TISSUES INFECTED BY PSEUDOMO-NAS SYRINGAE PV. SYRINGAE

N.S. IACOBELLIS and P. LAVERMICOCCA

He and of NATO.

Istinuto Tossine e Micotossine da Parassiti vegetali del CNR, Bari.

Syringomycin (SR), a phytotoxin whose structure has recently been elucidated, has been reported to contribute significantly to the virulence of the different ecotypes of Pseudomonus syringse pv. syringse. Although its presence in the diseased and

in toxin-treated tissues was demonstrated by using a fluorescent antibody specific to the toxin preparation, syringomycin was never isolated from diseased tissues.

For this reason etiolated bean cotyledons, a more uniform and easier to handle host tissue than those used previously, were inoculated with selected P s. pv. syrinner strains solated from different host plants.

Some of the strains induced slightly depressed water-soaked areas which enlarged with time and were characterized by the presence of abundant bacterial esudates on their surface.

Conversely, other strains induced the formation of depressed necronic lesisons at the inoculation sites only. The development and final appearance of the symptoms, resembling respectively the compatible and incompatible plant-pathogen interaction, confirmed the presence of pathotype in P. s. pv. pringue and showed, furthermore, that ciolated coeffecions are a suitable tissue for studies on the pathogenesis of P.

a. pv. syringer

Extracts of diseased tissues and learerist counters washed off the infected tissues showed relatively high levels of antibiotic activity against Robotstoral pillmanse when compared to that present in the tissues inoculated with the incompatible strains. In this connection, it cannot be excluded that the low infinitionsy activity present in the insures inoculated with the low infinitely activity present in the insures inoculated with part and in the internal of the control of the co

Actine fractions derived from the purification of bacterial couldine centers analysed by TLC bowded several indiplent nestrating bands, and when the TLC plates were covered with PDA containing R. pulmenus cells, an inhibition are appeared in a now with a Skilke RE. Intended most of the activity present in disease with a Skilke RE. Intended most of the activity present indicates extracts was lost during the purification procedure. However, an accurate analysis of the active fractions of the activity was mostly associated to pre-equipment that formed during the concentration of the above fractions. Our present indicated active also are overlained to the above fractions. Our present indicated active also use or supressery, and the present active acti

GENETIC ASPECTS OF CYTOKININS PRODUCTION IN PSEUDO-MONAS AMYGDALI

N.S. IACOBELLIS, M. MOREA, G. PALUMBO, A. SISTO, and C. CIRIACO Initiato Tossine e Micrososine da Parasin vegetali del CNR. Ban. Tattimo di Generica, Università di Bat.

The hyperplastic bacterial canker of Almond is a disease induced by Pseudomonas amygdali, a hacterium which secretes in culture cytokinins and auxins and their production seems correlated to the virulence of the producing strains.

Among the plant pathogenic bacteria, plasmid-associated traits including the virulence/pathogenicity factors have been described. This is the case with playtohormone production in Agrobacterium sp., Pseudomonas syringse ps. sanstaturoi and Readococcus factors, responsible for growth alteration of infected bost plants.