ned the structures of three lipopeptides (SR-A<sub>2</sub>, SR-E, and SR-G). Later, SR-E has been also identified by a japanese group in a strain pathogenic to sugar came.

Recently we have completed the structure determination of syringotoxin (ST), as metabolite produced by circuis inclusive of the above beacterium. ST had partially characterized several years ago by De Vay et al. The accompaning containmentation by Speer et al give details one our structural work. ST is strictly on the typing of the containing the strictly of the

All the above reported metabolises are members of an apparently large family of nor narmal lipsoprisperdous which display a high ambientic activity. Periodulty intensiting is the occurrence is all of them of the new amino acid echocurrence in all of them of the new amino acid echocurrence inc. whose total symbolis has been recently completed in Boson. The chlorine cannot be all the control of the control of

Some biological properties of impure SR have been reported by De Vay et al.

serious all years ago; pure SR has been aboven more recently by Takemoto et al. to
affect transport phenomena at the level of the plasma membrane of eukaristic organisms. Biological tests with several of the above reported metabolites are presently
under way in our laboratories.

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## FURTHER STUDIES ON MINOR TOXINS PRODUCED BY THREE SPECIES OF SEIRIDIUM IN CULTURE

A BALLIO, A EVIDENTE, A GRANITI, G. RANDAZZO and L. SPARAPANO Dipartmento di Scienze biochimiche. Università di Roma alla Sarierana.

<sup>3</sup> Dipartimento di Scienze chimico agrarie, Università «Federico II», Portici (Napoli).
<sup>5</sup> Dipartimento di Patologia vegetale, Università di Bari.

<sup>6</sup> Istinzo di Industrie agrarie, Università «Federico II», Portici (Napoli).

Serialism cardinale, a strain of S. caprest and S. neisones are associated with centher diseases of oppeas (Capressus importances) in the Mediterrament area. Previous research has shown that five major physroxesins were produced by these fungi in culture, namely excited, noi-ordinist and section-time A by all the Serialism supecities; sericupeoilde by S. caprests and S. neisoner, and cyclopaldic acid by S. capressi.

Further studies are in progress to elacidate the structures of five minor metabolites isolated from culture filtrates of the above mentioned fungal species. Chemical and spectroscopic data so far obtained indicate that three metabolites are bicyclic sequiterpenes structurally related to senicardine A, whereas the other two compounds are bustnessfels colory related to scinicardine.