



78th CRC Seminar

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今回の講師・Swaroopa Raniさんは、インド・ハイデラバード大学・植物病理学研究室で博士取得を目指している学生で、プロテオーム解析による研究を展開しています。今回は、共同研究実施のためCRCに滞在する機会を利用して、彼女の研究についてお話ししていただくことにしました。ご興味のある多くの皆様の参加をお待ちしています。

Non-host resistance associated-proteome changes in *Citrus-Xanthomonas* interactions

時間：2013年5月23日（木）17:00～18:30

場所：総合教育研究棟（生命系）1階 遠隔講義室

Interaction of plants with virulent and avirulent adopted pathogens and associated molecular events are under intensive study. But, a less explored plant-pathogen interaction is the non-host interaction, where an entire plant species shows resistance to an entire pathogen species, termed as non-host resistance (NHR). The plant that is resistant to all isolates of a particular pathogen is known as non-host plant and the pathogen as non-host pathogen to all the members of a plant species. The NHR is the most robust form of plant immunity in which multiple layers of defense responses involving interplay of both constitutive barriers and inducible reactions. NHR is a durable and broad-spectrum resistance mechanism that plants employ to restrict majority of pathogens. Understanding NHR at the functional product level through proteomic approach provides insights to explore alternative approaches for plant disease control. In the present study we analyzed at anatomical, biochemical and proteome-level changes occurring during *Citrus-Xanthomonas* interaction. The implication of the observed proteome-changes on the outcome of *Citrus-Xanthomonas* interaction would be discussed.

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