

PDE36 Possibilities on technical-cooperation between «Costa Lima» • quarantine laboratory of EMBRAPA environment (Brazil) and worldwide research institutions promoting biological control programs overseas
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«Costa Lima» Quarantine Laboratory (LQC) is the only Brazilian Quarantine Facility in the country authorized by the Ministry of Agriculture, Livestock and Food Supply (MAPA) to introduce natural enemies for pest control, as well as other beneficial organisms for scientific research. The LQC has accreditation for biological pest and other organisms control, and it is located at the Brazilian National Research Center for Monitoring and Environmental Impact Assessment/Brazilian Agricultural Corporation (CNPMA/ EMBRAPA), in Jaguariúna county, state of São Paulo, Brazil. Among its scope, LQC must subsidize the Plant Sanitary Defense Coordination Office by providing technical advice and feedback on the requests for importation of exotic natural enemies for pest control. Therefore, LQC works closely with the Brazilian Environmental Protection Institute (IBAMA) of the Ministry of Environment (MMA), and the National Council for Scientific and Technological Development (CNPq) of the Ministry of Science and Technology (MCT). Thereby, LQC is also a laboratory devoted to worldwide research institutions promoting biological control programs overseas. The following issues which would be processed in common projects or joined researches of institutes toward quarantine facilities are: a) laboratorial rearing methods for biocontrol agents of quarantine pests; computer systems for information organization (Databanks, WEB-systems, and others), introduction and establishment of risk analysis of quarantine pests; mathematical modeling simulation applied to follow interactions involved with pest biocontrol agent populational dynamics; all of them applied to insects, mites, nematode and microorganisms with potential to become biocontrol agents in Brazil. Since its establishment in 1991, the LQC has already introduced around 240 biological control agents, considering micro and macroorganisms, and has also exported more than 25 biological agents to different countries (under international bilateral cooperation programs for classical biological pest control. Nowadays, the Lab is developing a cooperation overseas project of classical biological control into a Forestry Protection Program (PROTEF) involving three exotic pests in forest of *Eucalyptus*: the red gum lerp psyllid, *Glycaspis brimblecombei* (Hemiptera: Psyllidae); bronze bud, *Thaumastocoris peregrinus* (Hemiptera: Thaumastocoridae) and eucalyptus gall wasp *Leptocybe invasa* (Hymenoptera: Eulophidae) in the Brazilian eucalyptus crops. The respective parasitoids are being introduced for the control of these exotic pests.