

Title	Physical or chemical? - Disinfestation technology in the 21 st century
Author	Corcoran, R.
Citation	Australian postharvest horticulture conference, Brisbane, Australia, 1-3 October, 2003; 91-97

Abstract

This paper examines potentially useful and sustainable quarantine treatment strategies, discusses the development of new treatment processes for high efficacy, end-point quarantine treatments for pests (particularly stored products pests), and presents both historical and future perspectives on disinfestation technology. A checklist of the properties of new chemical treatments (e.g. causing fruit damage; carcinogenic, mutagenic or teratogenic; water-soluble, flammable or explosive; and sufficiently biologically effective) is presented, as well as descriptions of new physical treatments available (thermal, ionizing energy, microwave, ultrasound and electrical energy). Specific sections on efficacy and quarantine security, health, safety and environmental considerations, and standards of safety and efficacy are also found in this review.