

[Abstract:](#)

A non-destructive inspection machine using near infrared rays is effective for selecting fruits with core rot and disorders of the Japanese pear cultivar 'Atago'. *Phomopsis* sp. *Fusarium* spp., *Alternaria* sp., *Colletotrichum* sp., *Botrytis* sp. and some other species of unknown fungi were isolated from these core rots and rotted flesh. Representative isolates from the rots of flesh were all pathogenic on matured cut fruits of 'Atago'. Consequently, *Fusarium* spp. *Alternaria* sp. and *Colletotrichum* sp., etc. other than *Phomopsis fukushii* are all closely associated on fruit core rot of 'Atago'.