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Early detection of fungal infection of stored apple fruit with optical sensors – comparison of biospeckle, hyperspectral imaging and chlorophyll fluorescence

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- apples were infected with *P. malicortidis* fungal cultures and tested for 8 days
- visual inspection showed the bull's eye rot 4-5 days after inoculation
- all tested methods showed infected areas before first visual signs of disease
- the biospeckle analysis detected the infection earlier than the reference methods
- the biospeckle activity increased in infected regions

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