

<b>Title</b>	<b>Describe plant microbiology</b>		
<b>Level</b>	<b>6</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe beneficial and pathogenic interactions between microorganisms and plants; and control of infectious diseases of plants.
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<b>Classification</b>	Science > Microbiology
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<b>Available grade</b>	Achieved
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### Guidance Information

None.

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### Outcomes and performance criteria

#### Outcome 1

Describe beneficial interactions between microorganisms and plants.

#### Performance criteria

1.1 The infection process is described in terms of the physical change to the microorganism and/or plant from the interaction.

Range may include but is not limited to – nodule formation, mycorrhizal, epiphytic, rhizosphere associations.

1.2 The beneficial effects are described for the microorganism and/or plant in terms of the interaction.

#### Outcome 2

Describe pathogenic interactions between microorganisms and plants.

Range pathogenic interactions include – bacterial-plant, fungal-plant, viral-plant.

#### Performance criteria

2.1 Infectious plant diseases are described in terms of their pathogenesis.

2.2 The manner in which the pathogen in each interaction gains entry is described in terms of damage to plants.

- 2.3 Plant mechanisms are described in relation to their defence against pathogens.

### Outcome 3

Describe control of infectious diseases of plants.

Range infectious diseases include – bacterial, fungal, viral.

### Performance criteria

- 3.1 Methods of infectious disease control are described in terms of the specific pathogen.
- 3.2 The mode of action is described in relation to the method of infectious disease control.

<b>Planned review date</b>	31 December 2023
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 December 1996	31 December 2014
Revision	2	19 February 1998	31 December 2014
Review	3	23 November 1999	31 December 2014
Review	4	21 May 2010	N/A
Rollover	5	27 January 2015	N/A
Review	6	27 September 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

### Comments on this unit standard

Please contact NZQA National Qualifications Services [nqs@nzqa.govt.nz](mailto:nqs@nzqa.govt.nz) if you wish to suggest changes to the content of this unit standard.