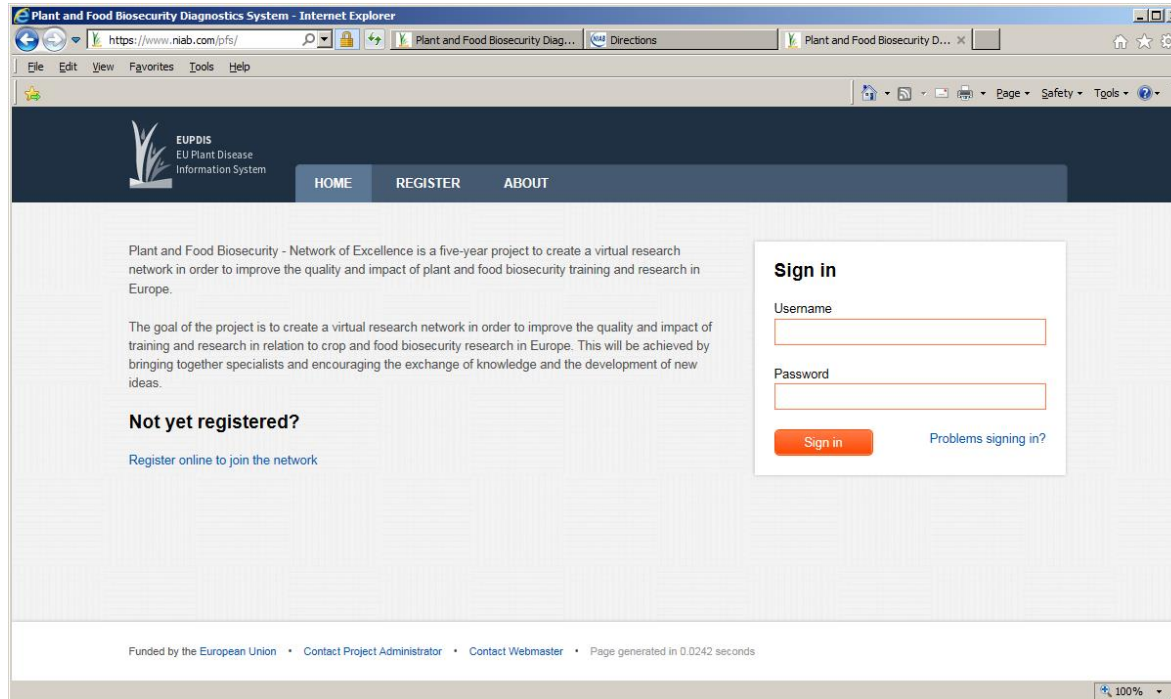


# EUPDIS

## EU Plant Disease Information System

<http://www.niab.com/pfs>



The screenshot shows the EUPDIS website in an Internet Explorer browser window. The address bar displays <https://www.niab.com/pfs/>. The website has a dark blue header with the EUPDIS logo and navigation links: HOME, REGISTER, and ABOUT. The main content area features a paragraph about the Plant and Food Biosecurity - Network of Excellence project, followed by a 'Sign in' form with fields for Username and Password, a 'Sign in' button, and a link for 'Problems signing in?'. Below the main content, there is a footer with funding information and contact links.

Plant and Food Biosecurity - Network of Excellence is a five-year project to create a virtual research network in order to improve the quality and impact of plant and food biosecurity training and research in Europe.

The goal of the project is to create a virtual research network in order to improve the quality and impact of training and research in relation to crop and food biosecurity research in Europe. This will be achieved by bringing together specialists and encouraging the exchange of knowledge and the development of new ideas.

**Not yet registered?**

[Register online to join the network](#)

**Sign in**

Username

Password

[Sign in](#) [Problems signing in?](#)

Funded by the European Union • [Contact Project Administrator](#) • [Contact Webmaster](#) • Page generated in 0.0242 seconds

**Jane Thomas & Paul J Verrier**



**BCPC Disease Group Meeting, 7<sup>th</sup> December**

# What's this about?

- EU Plant and Food BioSecurity Network of Excellence
  - PLANTFOODSEC
- Defined need to:
  - Capture diagnostic information
  - Track outbreaks of disease
  - Link ALL plant pathology expertise
  - Alert on new issues, training
  - NOT to replace NPPO
  - Enable ALL laboratories to participate
- USA has Plant Disease Information System
  - Feeds Federal monitoring programmes

Plant and Food Biosecurity Diagnostics System - Internet Explorer

https://www.niab.com/pfs/dashboard

Plant and Food Biosecurity Di...

File Edit View Favorites Tools Help

EUPDIS  
EU Plant Disease  
Information System

Paul Verrier • Sign out

HOME EXPERTS LABS DIAGNOSTICS REPORTS NEWS ADMIN HELP

## Diagnostics

My samples (0) My lab (216) United Kingdom (167) ★ Follow up (3)

**No samples found**

Please change your search parameters and try again.

- + Add confirmed diagnosis
- + Add sample for diagnosis
- Upload samples
- Search
- Reports
- Encyclopedia

100%



Bar chart



Pie chart



Table

ALL

Jan 2016

Dec 2015

Nov 2015

Oct 2015

Aug 2015

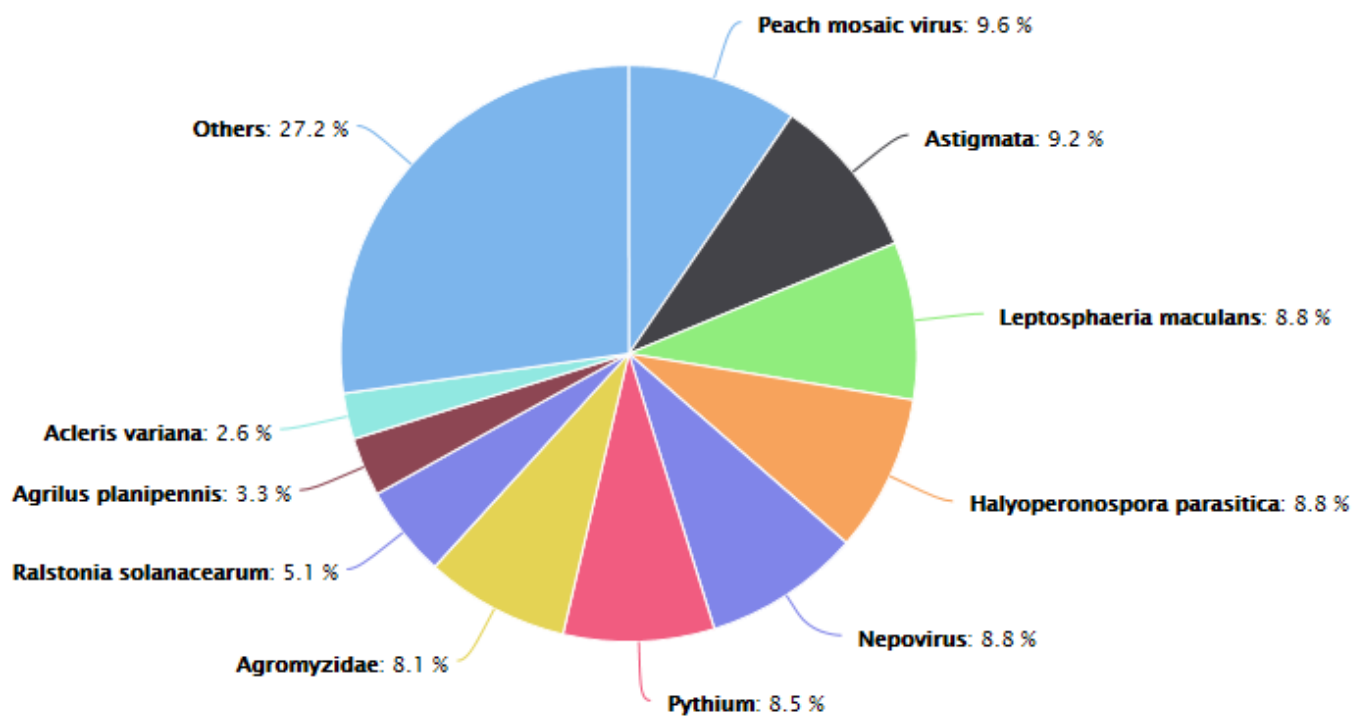
Jul 2015

Apr 2015

Mar 2015

Feb 2015

Jan 2015



[Home](#) › [Reports](#) › [Pathogen trends](#)


United Kingdom

[illegible]


## Diagnosis search

[Home](#) > [Diagnostics](#) > [Search](#)

Crop or host  

Pathogen  

Certainty  


Country  

Sampled date  to  [Clear dates](#)

Display as ☒ List ☐ Map ☐ Heatmap

Animated heatmap by: ☐ Day ☐ Week ☐ Month

[Search](#)

 [Export to CSV](#)

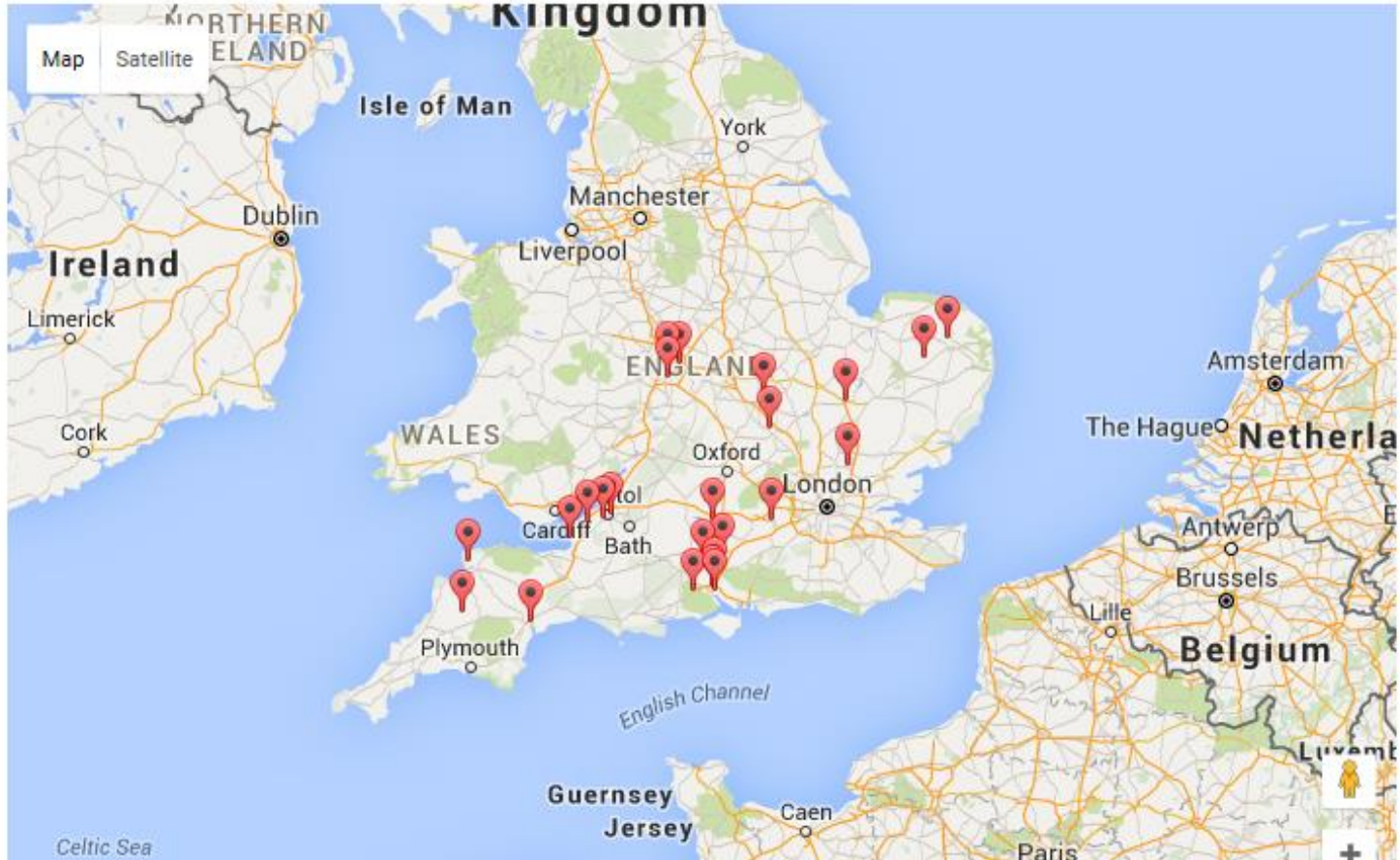
 Export to CSV

<input type="checkbox"/>	ID	DATE	CROP OR HOST	PATHOGEN(S)	COUNTRY
<input type="checkbox"/>	178	20 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	173	17 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	193	11 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	171	10 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	187	09 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	188	07 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	158	04 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	202	01 Apr 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	189	25 Mar 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	201	21 Mar 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	199	05 Mar 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom
<input type="checkbox"/>	175	27 Feb 2015	<a href="#">Brassica napus var oleifera</a>	Halyoperonospora parasitica	United Kingdom

Display as ☐ List ☒ Map ☐ Heatmap

Animated heatmap by: ☐ Day ☐ Week ☐ Month

Search





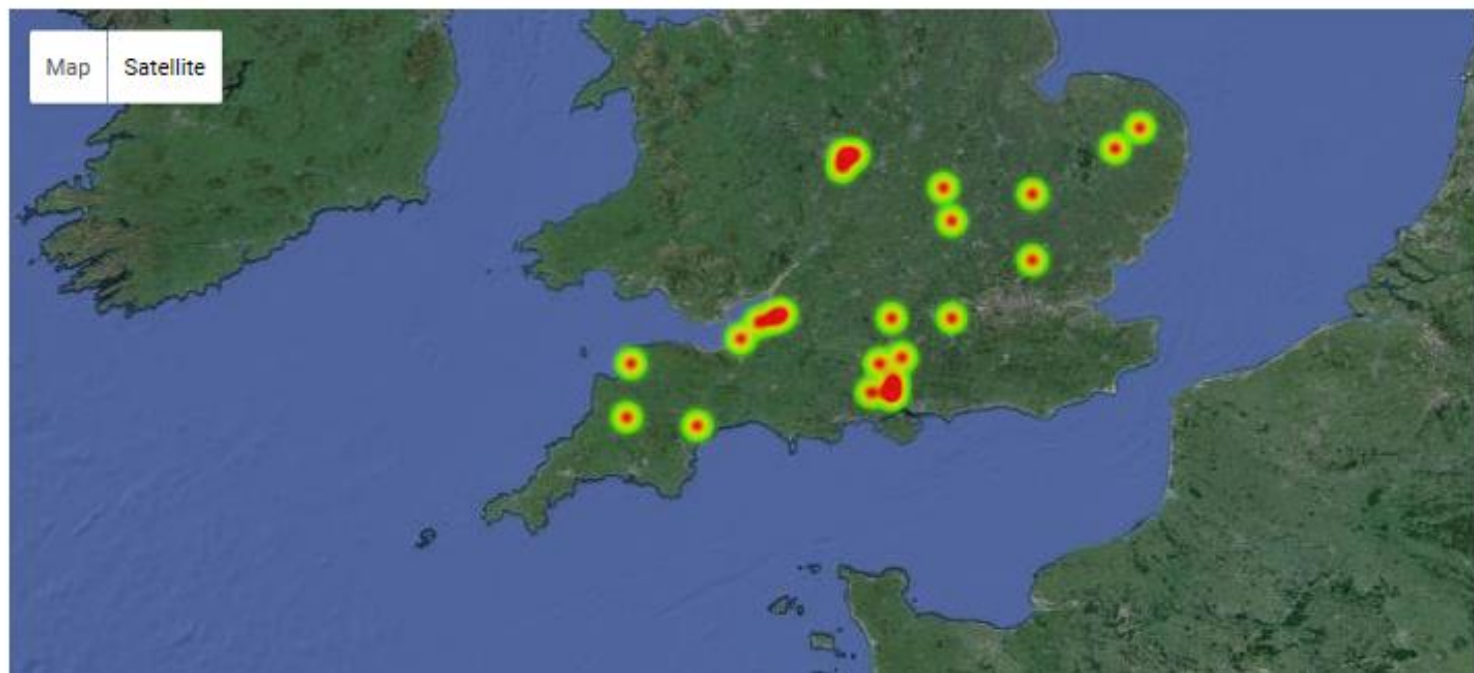
Country  

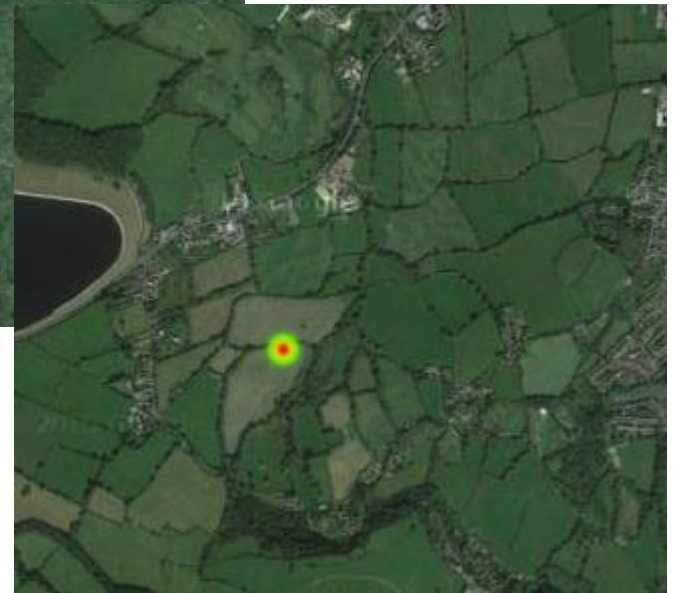
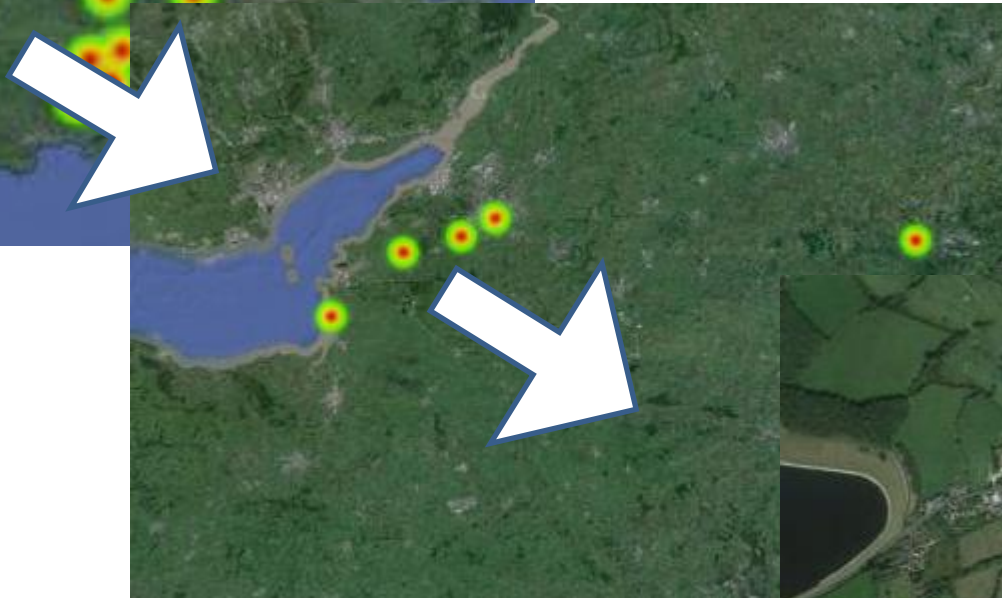
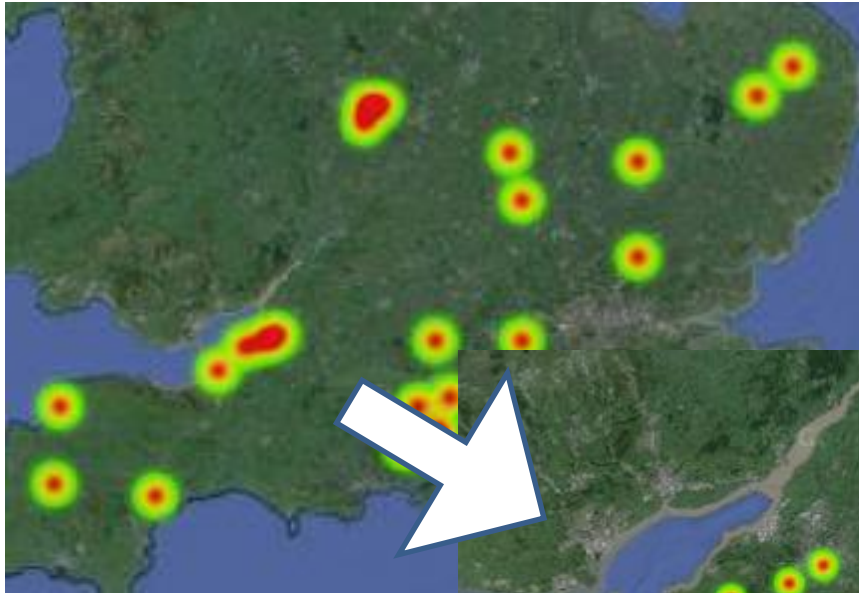
Sampled date  to  [Clear dates](#)

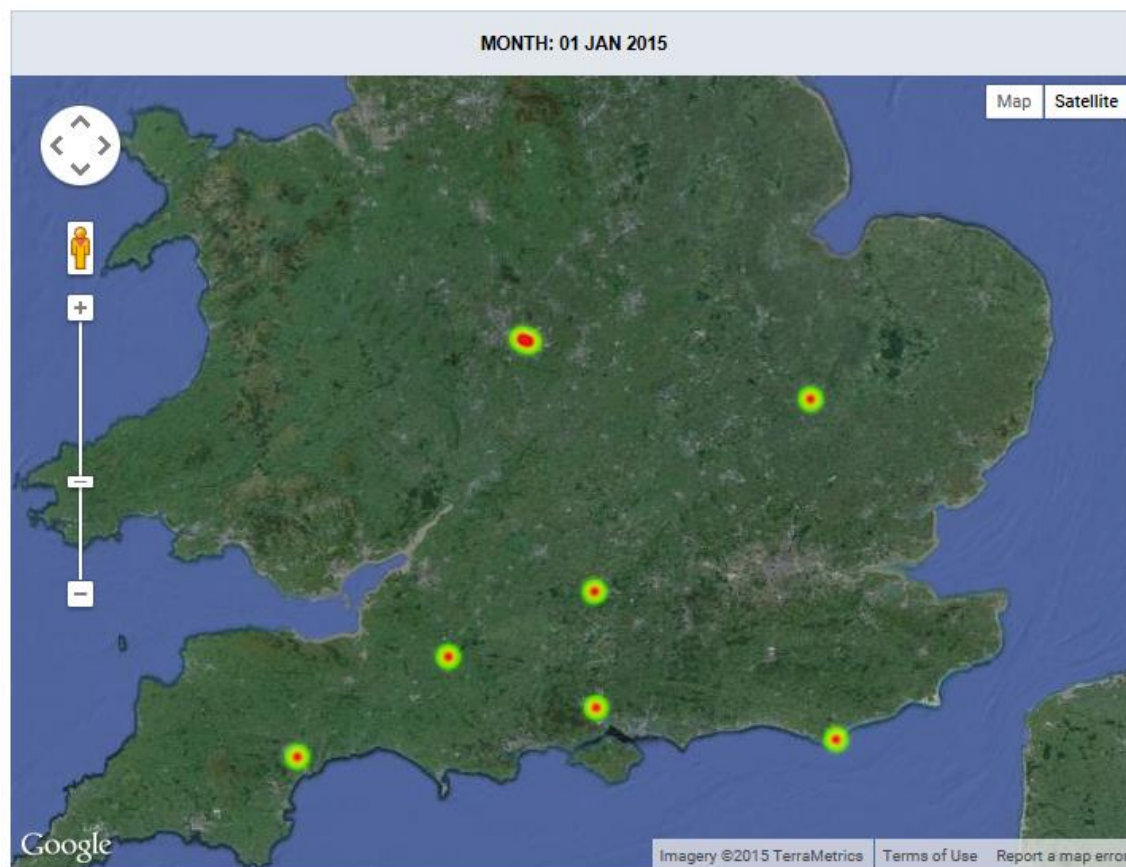
Display as ☐ List ☐ Map ☒ Heatmap

Animated heatmap by: ☐ Day ☐ Week ☐ Month

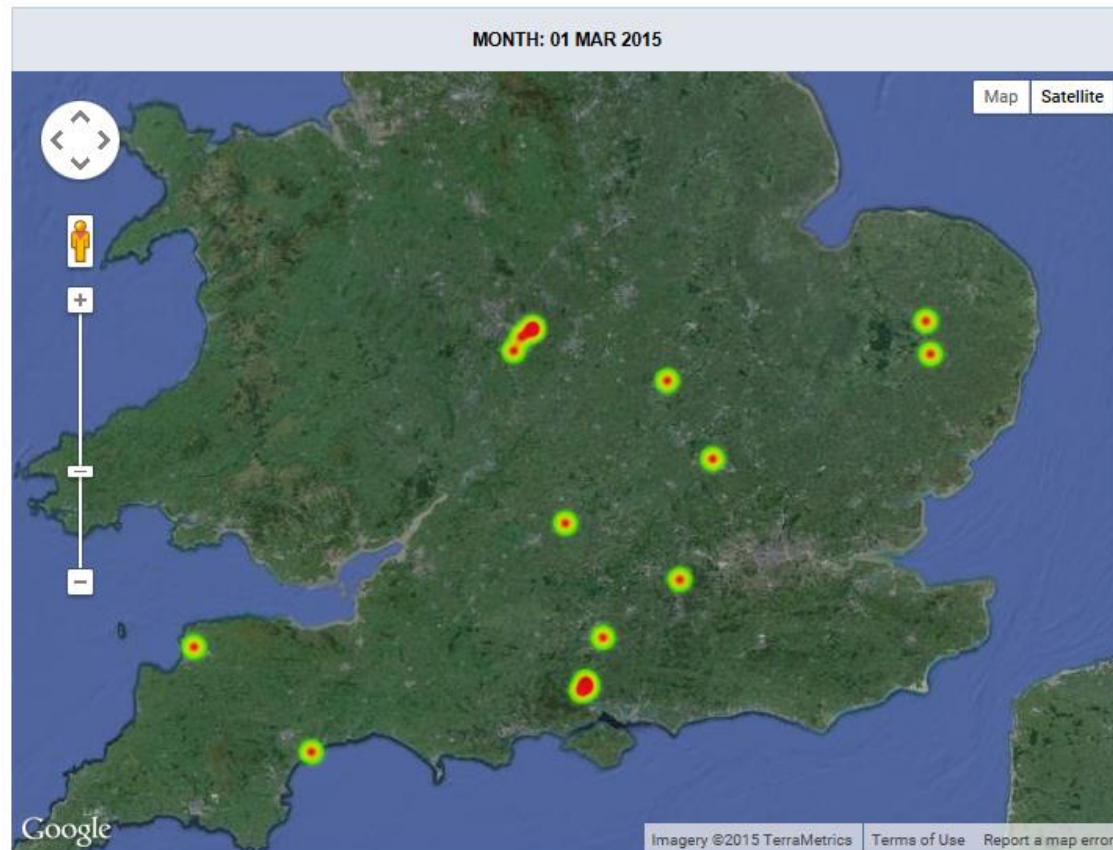
Search





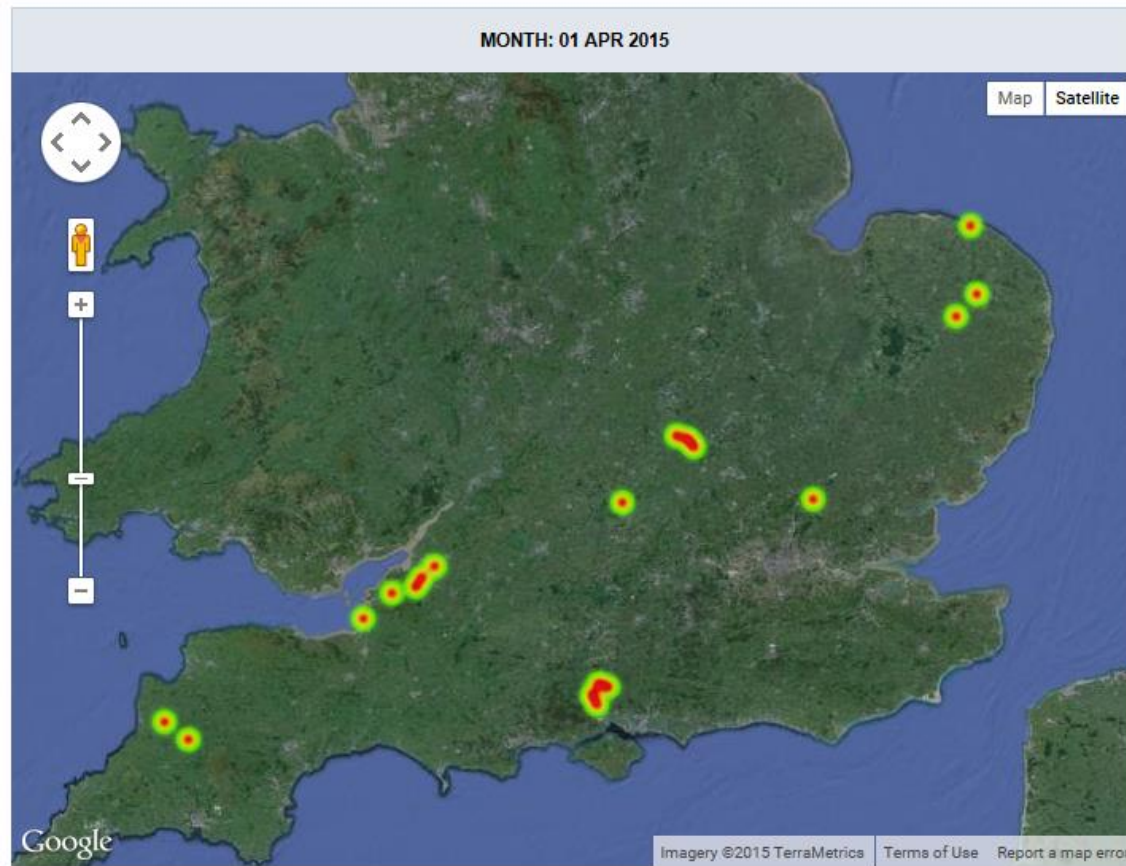


*Please note that some samples may be missing from the map if their address has not yet been geocoded.*

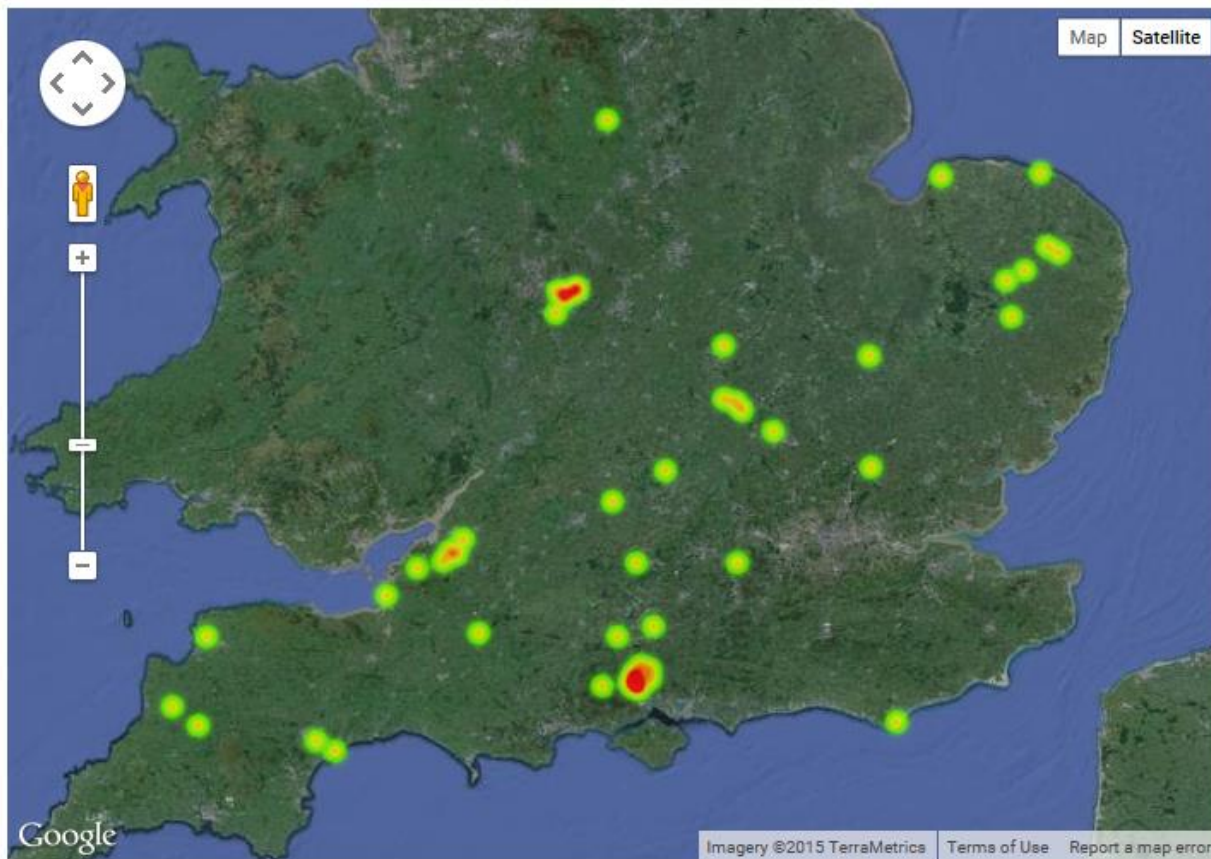


*Please note that some samples may be missing from the map if their address has not yet been geocoded.*



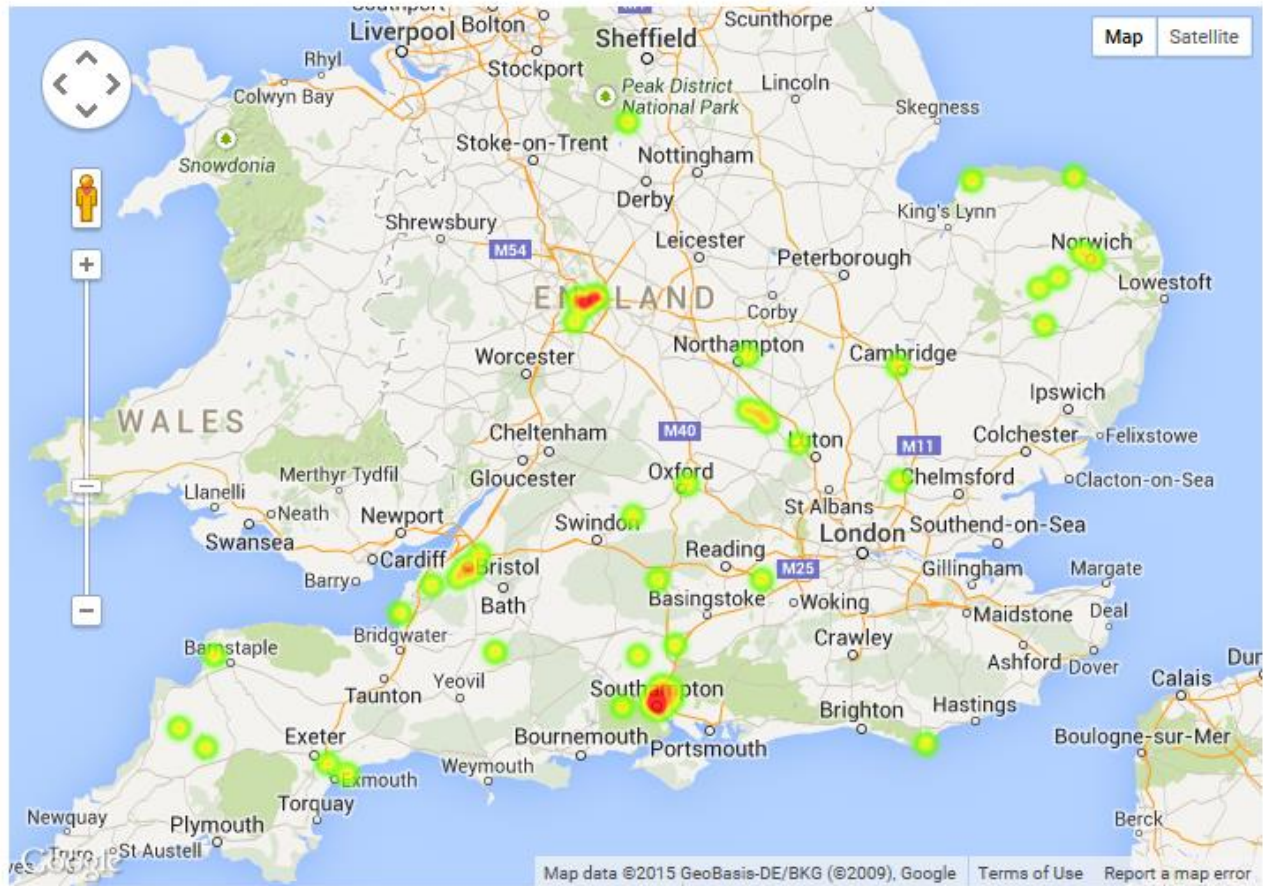


*Please note that some samples may be missing from the map if their address has not yet been geocoded.*



*Please note that some samples may be missing from the map if their address has not yet been geocoded.*

## Various display options






*Please note that some samples may be missing from the map if their address has not yet been geocoded.*

## Top pathogens

[Home](#) > [Rep](#)

ALL Afghanistan France Saint Pierre and Miquelon Spain United Kingdom

 Bar chart  Pie chart  Table

ALL

Aug 2015

Jul 2015

Apr 2015






Mar 2015

Feb 2015

PATHOGEN NAME	OCCURENCES	% OF ALL REPORTED
---------------	------------	-------------------

<a href="#">Ralstonia solanacearum</a>	5	100%
--	---	------



PATHOGEN	FEB 2015	MAR 2015	APR 2015	MAY 2015	JUN 2015	JUL 2015	AUG 2015	GRAPH
Agrobacterium	1	1	0 ▼1	0	0	0	0	
Nepovirus	0	0	24 ▲24	0 ▼24	0	0	0	
Peach mosaic virus	0	0	25 ▲25	0 ▼25	0	0	0	
Ralstonia solanacearum	0	0	0	0	0	5 ▲5	9 ▲4	
Tetropium gracilicorne	1	0 ▼1	0	0	0	0	0	

## Diagnosis search

Crop or host

Pathogen

Certainty

Country

Sampled date  to  [Clear dates](#)

Display as ☒ List ☐ Map ☐ Heatmap

Animated heatmap by: ☐ Day ☐ Week ☐ Month

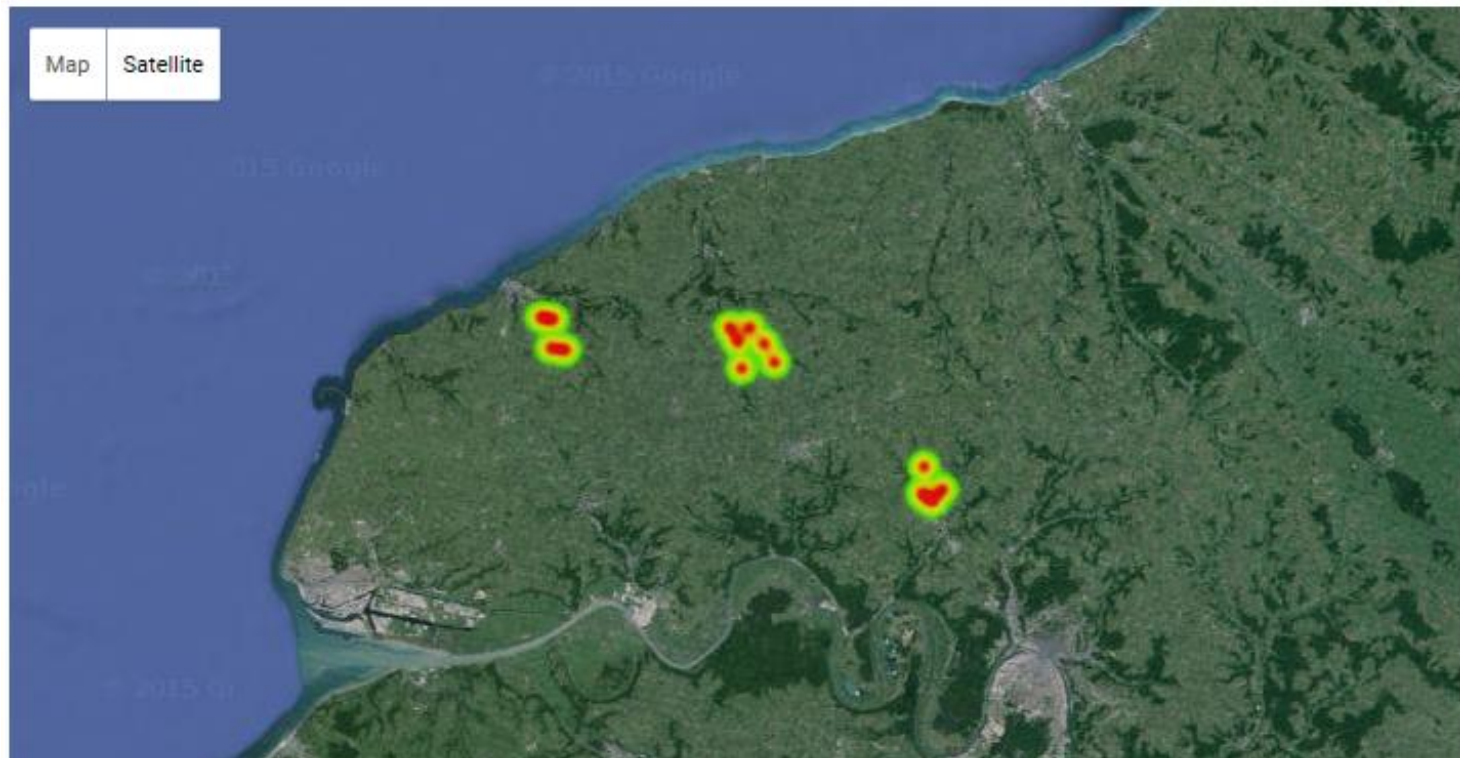
Search

<input type="checkbox"/>	ID	DATE	CROP OR HOST	PATHOGEN(S)	COUNTRY
<input type="checkbox"/>	326	15 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	325	14 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	324	12 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	323	11 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	322	06 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	321	05 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	320	02 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	318	01 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	319	01 Aug 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	316	25 Jul 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	315	23 Jul 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	314	22 Jul 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France
<input type="checkbox"/>	313	20 Jul 2015	<a href="#">Solanum tuberosum</a>	Ralstonia solanacearum	France

Display as ☐ List ☐ Map ☒ Heatmap

Animated heatmap by: ☐ Day ☐ Week ☐ Month

Search



## Encyclopedia

Organism name

Search

- [Ralstonia](#)
- [Ralstonia solanacearum](#)
- [Ralstonia solanacearum race 3](#)
- [Ralstonia solanacearum race 3 biovar 2 \(Pseudomonas solanacearum\)](#)

# Ralstonia solanacearum

[Edit organism](#)[Overview of samples](#)

**Alternative names** Bacterial wilt (English / United States)  
Bactériose vasculaire (French / France)  
Bacterium solanacearum  
Braunfäule (Germany)  
Brown rot (potato) (English / United States)  
Burkholderia solanacearum  
Granville wilt (tobacco) (English / United States)  
Moko disease (banana) (English / United States)  
Podredumbre parda de la patata (Spain)  
Pourriture brune (French / France)  
Pseudomonas solanacearum  
Schleimkrankheit der Kartoffel (Germany)  
southern bacterial wilt (tomato) (English / United States)

**Organism** [Bacteria](#) → [Ralstonia](#) → [Ralstonia solanacearum](#)  
**parents** [Bacteria](#) → [Ralstonia solanacearum](#)

**Type** Pathogen

Pathogens

**Hosts** [Capsicum spp](#)  
[Lycopersicon esculentum](#)  
[Musa spp](#)  
[Nicotiana tabacum](#)  
[Olea europea](#)  
[Pelargonium](#)  
[Solanum dulcamara](#)  
[Solanum melongena](#)  
[Solanum tuberosum](#)  
[Zingiber officinale](#)

**Host specificity**

**Experts on this organism** [John Elphinstone](#)  
[Joseph Sollinger](#)  
[Olga Truljova](#)  
[Paul Beales](#)  
[Sandrine Léonard](#)  
[Valentina Gusina](#)

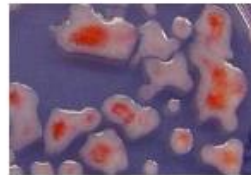
**In EU?** [x](#)

**Alert if found?** [✓](#)

Year  
introduced

Found in  
Countries

Photos



**Notes** The ginger strain infects numerous ginger species.  
Commercial chemicals have generally proven to be ineffective in controlling the pathogen.

**Extra information** [http://www.eppo.int/QUARANTINE/bacteria/Ralstonia\\_solanacearum/PSDMSO\\_ds.pdf](http://www.eppo.int/QUARANTINE/bacteria/Ralstonia_solanacearum/PSDMSO_ds.pdf) [Edit] [Delete]  
*Ralstonia solanacearum*, *Data Sheets on Quarantine Pests*, EPPO

[http://plantpath.ifas.ufl.edu/rsol/RalstoniaPublications\\_PDF/EPPORalstoniaDiagnostic%20protocols.pdf](http://plantpath.ifas.ufl.edu/rsol/RalstoniaPublications_PDF/EPPORalstoniaDiagnostic%20protocols.pdf)  
*Ralstonia solanacearum*, *Diagnostic protocols for regulated pests*, Blackwell Publishing, Ltd. [Edit] [Delete]  
European and Mediterranean Plant Protection Organization, EPPO Bulletin 34, 173–178, 2004

<http://j.b.asm.org/content/194/10/2742.full> [Edit] [Delete]  
*Sequencing of K60, Type Strain of the Major Plant Pathogen Ralstonia solanacearum*, Benoît Remenanta, Lavanya Babujee, Aurélie Lajus, Claudine Médigue, Philippe Priorc and Caitilyn Allena; *Journal of Bacteriology*, 2012, 194, 2742-2743

### **Ralstonia solanacearum**

14 Jan 2016

*Ralstonia solanacearum*, the causal agent of brown rot of potatoes, is a regulated pathogen with serious implications for potato production in the EU. A number of races and biovars of *R. solanacearum* exist. Race 3 Biovar 2 affects potatoes. It also affects a number of solanaceous plants, including weedy species. It is tuber-borne in potatoes and is also water-borne. Symptom development is favoured by warm temperatures and moist soils. Affected plants wilt in the field at the top leaflets and as the disease progresses plants become stunted, yellowed, severely wilted and will eventually die. In tubers, the typical symptom is a brown discolouration of the vascular ring. This eventually rots, and a white slime may appear outside the tuber. The organism can also cause latent infections in tubers, and if these are planted, the disease will transmit to growing plants. The bacteria can spread on machinery and in irrigation water.



*Solanum dulcamara*, a wild plant that can be infected

Some weedy species, particularly *Solanum dulcamara* (common name of 'woody nightshade' in the UK), are significant for the spread of disease as they can harbour the organism without showing symptoms, and can release it into watercourses,



**Organisation** [Federal Agency for the Safety of the Food Chain - Gembloux](#)

---

**Job title**

---

**Primary contact** Yes

---

**Phone number** +32 49 87 38747

---

**Mobile**

---

**Fax** +32 81 62 0301


---

**Email** [sandrine.leonard@afsca.be](mailto:sandrine.leonard@afsca.be)

---

**Address** Chaussée de Namur 22  
5030 Gembloux  
Belgium

---

**Website** <http://www.favv-afsca.fgov.be/home-en/> 

---

**Areas of expertise**

---

**Roles**

---

**Crops**

---

**Specialisms** [Clavibacter michiganensis subsp. sepedonicus](#)  
[Erwinia amylovora](#)

## Map of selected laboratories




Plant and Food Biosecurity Diagnostics System - Internet Explorer

https://www.niab.com/pfs/labs/search

Plant and Food Biosecurity D... x NIAB Directions Plant and Food Biosecurity Diag...

File Edit View Favorites Tools Help

Home RSS Print Page Safety Tools ?

 **EUPDIS**  
EU Plant Disease  
Information System

Paul Verrier · Sign out

HOME EXPERTS LABS DIAGNOSTICS REPORTS NEWS ADMIN HELP

**Laboratories search**

Home > Labs > Search

Search

[Display on a map](#)

[Add a laboratory](#)

Facility ALL

Country ALL

Type ALL  
Advisory Laboratory  
Human Pathogen Lab  
NHPO  
NPPO

[Map Laboratories](#) [Export to CSV](#)

<input type="checkbox"/>	NAME	COUNTRY	TYPE	FACILITIES	EXPERTS
<input type="checkbox"/>	Aarhus University- Flakkebjerg (AUF)	Denmark	Advisory Laboratory	Molecular biology equipment	Alain Rodriguez B. Cavagna Mogens Nicolaisen Spela Modic Valade Romain Yves BOUTIER

100%

## Map of selected laboratories



## Experts search


[Home](#) > [Experts](#) > Search


Expert area

Crop

Country

Search

 Map experts

 Export to CSV

<input type="checkbox"/>	EXPERT	◆ ORGANISATION	◆ COUNTRY	◆ EXPERTISE ◆	CROPS ◆
<input type="checkbox"/>	<a href="#">Arunas Beniusis</a>	Phytopsanitary Research Laboratory	Lithuania	Fungi	
<input type="checkbox"/>	<a href="#">Charles Lane</a>	Food and Environment Research Agency	United Kingdom	Fungi	
<input type="checkbox"/>	<a href="#">Linda Brandt</a>	Estonian Agricultural Research Centre	Estonia	Fungi	
<input type="checkbox"/>	<a href="#">Paul Beales</a>	Food and Environment Research Agency	United Kingdom	Fungi	Solanum tuberosum
<input type="checkbox"/>	<a href="#">...</a>	<a href="#">...</a>	<a href="#">...</a>	<a href="#">...</a>	<a href="#">...</a>


## Add confirmed diagnosis


[Home](#) > [Diagnostics](#) > Add confirmed diagnosis

### Diagnosis

---

Date crop sampled

Crop or host  

Cultivar  

Pathogen(s) detected

Notes

### Location of crop

---

Field or reference

Town

Postcode

Country  

Latitude  *If GPS reading was taken*

Longitude  *If GPS reading was taken*

Internal reference

Add diagnosis

## Add sample for diagnosis

[Home](#) > [Diagnostics](#) > Add sample for diagnosis

### Suspected diagnosis

---

Date crop sampled

Crop or host

### Details of issue

---

Cultivar

Date crop sown

Pathogen(s) suspected

Previous crop in field

Internal reference

Part(s) of plants affected

% of crop infected

*Percentage of the entire crop  
e.g. 24%*

Size of patch affected

*Estimate the size of the affected*

acre

Chemicals & products used

*e.g. Fertiliser, Sprays, Nutrients*

Description of problem

*e.g. Environmental conditions, weather, symptoms etc.*



## Images of crop and infection

---

Image (1)

Browse...

*JPG format only*

Description (1)

 Add another image

## Location of crop

---

Field or reference

Town

Postcode

Country

Afghanistan 

Latitude

Longitude

## Samplers details

---

Samplers name

Samplers email

Samplers telephone

Samplers address

Samplers postcode

Add sample



## Diagnostics dashboard

[Home](#) > [Diagnostics](#) > [Dashboard](#)

My samples (0)

My lab (216)

United Kingdom (167)

★ Follow up (3)

ID	DATE SAMPLED	CROP OR HOST	PATHOGEN(S)	TOWN	
343	14 Jan 2016	<a href="#">Actinidia chinensis</a>	American plum line pattern virus	Cambridge	✓
329	13 Jan 2016	<a href="#">Actinidia chinensis</a>	Acleris variana Aculops fuchsiae	Cambridge	✓
333	13 Jan 2016	<a href="#">Actinidia deliciosa</a>		Cambridge	✓
338	13 Jan 2016	<a href="#">Actinidia deliciosa</a>		Cambridge	⌚
337	13 Jan 2016	<a href="#">Actinidia kolomikta</a>		Cambridge	⌚
341	13 Jan 2016	<a href="#">Alnus spp</a>	Aculops fuchsiae	Cambridge	⌚
339	13 Jan 2016	<a href="#">Anacardium occidentale</a>	Agrilus planipennis	Cambridge	✓



[Users](#)

[Permissions](#)

[Website settings](#)

[Registration requests](#)

[Geocoding](#)

[Manage your account](#)

[News](#)

[Events](#)

## Events

[Home](#) › [Admin](#) › Events

[+ Add an event](#)

START DATE	END DATE	TITLE	COUNTRY	TYPE
13 Sep 2015	15 Sep 2015	<a href="#">BSPP Presidential Meeting 2015 - The Impact of Plant Pathogens on Everyday Lives</a>	United Kingdom	paid
24 Aug 2015	27 Aug 2015	<a href="#">International Plant Protection Congress</a>	Germany	paid
21 Jun 2015	26 Jun 2015	<a href="#">Fusarium Laboratory Workshop</a>	United States	paid

 3 event(s) found



[Users](#)

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[Registration requests](#)

[Geocoding](#)

[Manage your account](#)

[News](#)

[Events](#)

## News

[Home](#) > [Admin](#) > [News](#)

[+ Add a news item](#)

DATE	TITLE
14 Jan 2016	<a href="#">Ralstonia solanacearum</a>
20 Apr 2015	<a href="#">New diagnostic developments</a>
20 Apr 2015	<a href="#">Unusual seed-borne disease records</a>
18 Dec 2014	<a href="#">UK Government publishes its forward vision for animal and plant health</a>
12 Sep 2014	<a href="#">Orobanche crenata (Bean Broomrape) in the UK</a>

[i](#) 5 news item(s) found

# EUPDIS thanks

- PDIS system and James Stack both of KSU
- PLANTFOODSEC EU project which spawned EUPDIS
- Stuart Green (NIAB) for coding the system