**PHI-base**

RRID:SCR_003331  
Type: Tool

**Proper Citation**

PHI-base (RRID:SCR_003331)

**Resource Information**

**URL:** http://www.phi-base.org/

**Proper Citation:** PHI-base (RRID:SCR_003331)

**Description:** Database that catalogs experimentally verified pathogenicity, virulence and effector genes from fungal, Oomycete and bacterial pathogens, which infect animal, plant, fungal and insect hosts. It is an invaluable resource in the discovery of genes in medically and agronomically important pathogens, which may be potential targets for chemical intervention. In collaboration with the FRAC team, it also includes antifungal compounds and their target genes. Each entry is curated by domain experts and is supported by strong experimental evidence (gene disruption experiments, STM etc), as well as literature references in which the original experiments are described. Each gene is presented with its nucleotide and deduced amino acid sequence, as well as a detailed description of the predicted protein's function during the host infection process. To facilitate data interoperability, genes have been annotated using controlled vocabularies and links to external sources (Gene Ontology terms, EC Numbers, NCBI taxonomy, EMBL, PubMed and FRAC).

**Abbreviations:** PHI-base

**Synonyms:** Pathogen Host Interaction, Pathogen Host Interaction base, Pathogen Host Interaction-Base

**Resource Type:** data or information resource, database

**Defining Citation:** PMID:17942425, PMID:17153929, PMID:16381911

**Keywords:** gene expression, pathogenic bacteria, virulence, infection, target site, gene, pathogen-host interaction, interaction, phenotype, pathogen, disease, host, anti-infective,
nucleotide sequence, amino acid sequence, bio.tools, FASEB list

**Funding Agency:** BBSRC

**Availability:** Free, Acknowledgement required, Non-commercial, Commercial use requires permission

**Resource Name:** PHI-base

**Resource ID:** SCR_003331

**Alternate IDs:** nif-0000-03276, biotools:phi-base

**Alternate URLs:** https://bio.tools/phi-base

**Old URLs:** http://www4.rothamsted.bbsrc.ac.uk/phibase/

### Ratings and Alerts

No rating or validation information has been found for PHI-base.

No alerts have been found for PHI-base.

### Data and Source Information

**Source:** [SciCrunch Registry](#)

### Usage and Citation Metrics

We found 143 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [RRID](#).


Iwanicki NSA, et al. (2022) Genomic signatures and insights into host niche adaptation of the entomopathogenic fungus Metarhizium humberi. G3 (Bethesda, Md.), 12(2).


Zhu Q, et al. (2022) Fungal Strains with Identical Genomes Were Found at a Distance of 2000 Kilometers after 40 Years. Journal of fungi (Basel, Switzerland), 8(11).


Achari SR, et al. (2021) Comparative transcriptomic analysis of races 1, 2, 5 and 6 of Fusarium oxysporum f.sp. pisi in a susceptible pea host identifies differential pathogenicity profiles. BMC genomics, 22(1), 734.

You MP, et al. (2021) Comparative analysis of draft genome assemblies developed from whole genome sequences of two isolate samples differing in field virulence on. Biotechnology reports (Amsterdam, Netherlands), 31, e00653.

