

Resource Summary Report

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Pathema

RRID:SCR_010585

Type: Tool

Proper Citation

Pathema (RRID:SCR_010585)

Resource Information

URL: <http://pathema.jcvi.org/Pathema/index.html>

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Description: Pathema is one of the eight Bioinformatics Resource Centers designed to serve as a core resource for the bio-defense and infectious disease research community. Pathema strives to support basic research and accelerate scientific progress for understanding, detecting, diagnosing and treating an established set of six target NIAID Category A-C pathogens: Category A priority pathogens; *Bacillus anthracis* and *Clostridium botulinum*, and Category B priority pathogens; *Burkholderia mallei*, *Burkholderia pseudomallei*, *Clostridium perfringens* and *Entamoeba histolytica*. Each target pathogen is represented in one of four distinct clade-specific Pathema web resources and underlying databases developed to target the specific data and analysis needs of each scientific community. All publicly available complete genome projects of phylogenetically related organisms are also represented, providing a comprehensive collection of organisms for comparative analyses. Pathema facilitates the scientific exploration of genomic and related data through its integration with web-based analysis tools, customized to obtain, display, and compute results relevant to ongoing pathogen research. Pathema serves the bio-defense and infectious disease research community by disseminating data resulting from pathogen genome sequencing projects and providing access to the results of inter-genomic comparisons for these organisms. The Pathema BRC contract ends in December 2009. At that time JCVI will cease maintenance of the Pathema web resource and data. The PATRIC team, located at the Virginia Bioinformatics Institute, created and maintains a consolidated BRC for all of the NIAID category A-C priority pathogenic bacteria. The EuPathDB team at the University of Pennsylvania will support all eukaryotic pathogens. Pathema transferred all data and software to PATRIC and EuPathDB for incorporation into their new Web-based bioinformatics resource.

Abbreviations: Pathema

Synonyms: Pathema Genome Resource, Pathema Bioinformatics Resource Center

Resource Type: analysis service resource, data analysis service, data or information resource, database, production service resource, service resource

Defining Citation: [PMID:19843611](#)

Keywords: bacillus anthracis, clostridium botulinum, burkholderia mallei, burkholderia pseudomallei, clostridium perfringens, entamoeba histolytica, bio.tools

Funding: NIAID contract HHSN266200400038C

Resource Name: Pathema

Resource ID: SCR_010585

Alternate IDs: biotools:pathema, nlx_45829

Alternate URLs: <https://bio.tools/pathema>

Record Creation Time: 20220129T080259+0000

Record Last Update: 20260905T132643+0000

Ratings and Alerts

No rating or validation information has been found for Pathema.

No alerts have been found for Pathema.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Lozano-Mendoza J, et al. (2023) Attenuation of In Vitro and In Vivo Virulence Is Associated with Repression of Gene Expression of AIG1 Gene in Entamoeba histolytica. Pathogens (Basel, Switzerland), 12(3).

Castro-Nallar E, et al. (2015) Concordance and discordance of sequence survey methods for molecular epidemiology. PeerJ, 3, e761.

Penuliar GM, et al. (2015) Phenotypic and transcriptional profiling in Entamoeba histolytica reveal costs to fitness and adaptive responses associated with metronidazole resistance. Frontiers in microbiology, 6, 354.

De Groot AS, et al. (2011) Immunogenic Consensus Sequence T helper Epitopes for a Pan-Burkholderia Biodefense Vaccine. Immunome research, 7(2).

Castañon-Sanchez CA, et al. (2010) *Entamoeba histolytica*: a unicellular organism containing two active genes encoding for members of the TBP family. Protein expression and purification, 70(1), 48.

Cruz-Castañeda A, et al. (2008) Ehhmbp45 is a novel hemoglobin-binding protein identified in *Entamoeba histolytica*. FEBS letters, 582(18), 2806.