

## Bacillaceae

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Bacillaceae is a family of Gram-positive, heterotrophic, rod-shaped bacteria that may produce endospores. Motile members of this family are characterized by peritrichous flagellae. Some Bacillaceae are aerobic, while others are facultative or strict anaerobes. Most are non-pathogenic, but *Bacillus* and *Clostridium* species are known to cause disease in humans.

### Recent Publications on Bacillaceae:



- [Crystal structure of the N-terminal domain of \*Geobacillus kaustophilus\* HTA426 DnaD protein.](#)  
*The DnaD is one of the primosomal proteins that are required for...*19th September, 2008  
Department of Biomedical Sciences, Chung Shan Medical University, No. 110,- Biochem Biophys Res Commun. 2008 Oct 17;375(2):220-4. Epub 2008 Aug 12. ([DOI Direct Link](#))
- [Superoxide dismutases exhibit oxidase activity on aldehyde alcohols similar to alcohol oxidase from \*Paenibacillus\* sp. AIU 311.](#)  
*The relations between oxidase activity on aldehyde alcohols and superoxide...*11th September, 2008  
Department of Agro-bioscience, Iwate University, Morioka, Japan.- J Biosci Bioeng. 2008 Jun;105(6):666-70. ([DOI Direct Link](#))
- [Development of a versatile shuttle vector for gene expression in \*Geobacillus\* spp.](#)  
*An improved, versatile shuttle vector has been created for the metabolic...*3rd September, 2008  
Division of Biology, Department of Life Sciences, Imperial College London,- Plasmid. 2008 Jul;60(1):45-52. Epub 2008 May 23. ([DOI Direct Link](#))
- [Microbial analysis of a composted product of marine animal resources and isolation of bacteria antagonistic to a plant pathogen from the compost.](#)  
*A composting product of marine animal resources has been used as a...*16th August, 2008  
Graduate School of Science and Technology, Chiba University, Chiba, Japan.- J Gen Appl Microbiol. 2008 Jun;54(3):149-58.
- [Characterization of a novel thermophilic, cellulose-degrading bacterium \*Paenibacillus\* sp. strain B39.](#)  
*AIMS: The aims of this study were to identify and characterize the novel...*12th August, 2008  
Graduate Institute of Veterinary Microbiology, National Chung Hsing- Lett Appl Microbiol. 2008 Jul;47(1):46-53. Epub 2008 Jun 12. ([DOI Direct Link](#))
- [DNA is preserved and maintains transforming potential after contact with brines of the deep anoxic hypersaline lakes of the Eastern Mediterranean Sea.](#)  
*ABSTRACT: BACKGROUND: Extracellular dissolved DNA has been demonstrated to...*7th August, 2008  
University of Milan, Department of Food Science and Microbiology, Via- Saline Systems. 2008 Aug 5;4:10. ([DOI Direct Link](#))
- [Coproducts of thermostable amylase and beta-galactosidase enzymes by \*Geobacillus\*](#)

[stearothermophilus SAB-40: application of Plackett-Burman design to evaluate culture requirements affecting enzyme production.](#)

*A locally isolated thermophile, Geobacillus sp. SAB-40, producing...* 7th August, 2008  
Mubarak City for Scientific Research and Technology Applications, Genetic- J Microbiol Biotechnol. 2008 Apr;18(4):695-703.

- [Isolation of uncultivable anaerobic thermophiles of the family Clostridiaceae requiring growth-supporting factors.](#)

*Novel groups of uncultivable anaerobic thermophiles were isolated from...* 7th August, 2008  
Department of Biological Sciences, Graduate School of Science, Osaka- J Microbiol Biotechnol. 2008 Apr;18(4):611-5.

- [Tumebacillus permanentifrigoris gen. nov., sp. nov., an aerobic, spore-forming bacterium isolated from Canadian high Arctic permafrost.](#)

*A Gram-positive, aerobic, rod-shaped bacterium (strain Eur1 9.5(T)) was...* 6th August, 2008  
Department of Natural Resource Sciences, McGill University, Ste-Anne de- Int J Syst Evol Microbiol. 2008 Jun;58(Pt 6):1497-501. ([DOI Direct Link](#))

- [Sediminibacillus halophilus gen. nov., sp. nov., a moderately halophilic, Gram-positive bacterium from a hypersaline lake.](#)

*A Gram-positive, moderately halophilic bacterium, designated strain...* 5th August, 2008  
Department of Microbiology and Parasitology, Faculty of Pharmacy,- Int J Syst Evol Microbiol. 2008 Aug;58(Pt 8):1961-7. ([DOI Direct Link](#))

- [Aquisalibacillus elongatus gen. nov., sp. nov., a moderately halophilic bacterium of the family Bacillaceae isolated from a saline lake.](#)

*A novel moderately halophilic, non-motile, rod-shaped bacterium was...* 5th August, 2008  
Department of Microbiology and Parasitology, Faculty of Pharmacy,- Int J Syst Evol Microbiol. 2008 Aug;58(Pt 8):1922-6. ([DOI Direct Link](#))

- [The structure of the complex between a branched pentasaccharide and Thermobacillus xylanilyticus GH-51 arabinofuranosidase reveals xylan-binding determinants and induced fit.](#)

*The crystal structure of the family GH-51 alpha- l-arabinofuranosidase...* 2nd August, 2008  
INRAUMR FARE 614, 8, rue Gabriel Voisin, BP 316, 51688 Reims cedex 2,- Biochemistry. 2008 Jul 15;47(28):7441-51. Epub 2008 Jun 19. ([DOI Direct Link](#))

- [Synthesis of the compatible solute ectoine in Virgibacillus pantothenticus is triggered by high salinity and low growth temperature.](#)

*The quantification of the intracellular concentration of ectoine in...* 1st August, 2008  
Laboratory for Microbiology, Department of Biology, Philipps University- Appl Environ Microbiol. 2008 Jul;74(14):4560-3. Epub 2008 May 16. ([DOI Direct Link](#))

- [\[AlkB homologues in thermophilic bacteria of the genus Geobacillus\]](#)

*Screening of alkane hydroxylase genes (alkB) was performed in the...* 30th July, 2008  
- Mol Biol (Mosk). 2008 Mar-Apr;42(2):247-57.

- [Production and characterization of gamma-polyglutamic acid nanoparticles for controlled anticancer drug release.](#)

*Gamma-polyglutamic acid (gamma-PGA) is a hydrophilic, biodegradable, and...* 26th July, 2008  
Department of Chemical and Biochemical Engineering, University of Western- Crit Rev Biotechnol. 2008;28(2):83-99. ([DOI Direct Link](#))

## Bacillaceae Clinical Trials:



- [Natural History of Anthrax: a Study of Primary Infected, Recovered, and Exposed Individuals \(SPoRE\);](#)



**Bacillaceae Patents:**

- 7273706- [Method of diagnosing testicular tumors using polynucleotides encoding a novel testis-specific tubulin tyrosine-ligase-like protein, BGS42](#)
- 7314975- [Rubisco Activase with increased thermostability and methods of use thereof](#)
- 7319139- [TAG-72 specific C.sub.H2 domain deleted antibodies](#)
- 7319142- [Nucleotide and amino acid sequences from Xenorhabdus and uses thereof](#)
- 7320958- [Coleopteran-toxic polypeptide compositions](#)
- 7323623- [RHIZOC3 nucleic acid molecules](#)
- 7326779- [Primers and method of detecting bacteria](#)
- 7329736- [Bacillus thuringiensis cry gene and protein](#)
- 7332611- [N-thiolated 2 oxazolidone antibiotics](#)
- 7332650- [Methods of protecting plants from pathogenic fungi](#)
- 7338794- [Amended recombinant cells for the production and delivery of gamma interferon as an antiviral agent, adjuvant and vaccine accelerant](#)
- 7314743- [Modified enzymes, methods to produce modified enzymes and use thereof](#)
- 7312086- [Methods of diagnosing colon adenocarcinoma using the human g-protein coupled receptor hgprbmy23](#)
- 7273751- [Vascular endothelial growth factor-2](#)
- 7273965- [Methods of protecting plants from pathogenic fungi](#)
- 7276354- [Polynucleotides encoding a novel human G-protein coupled receptor splice variant, HGPRBMY29SV2](#)
- 7285633- [Metalloprotease highly expressed in the testis, MMP-29](#)
- 7301069- [Methods of protecting plants from pathogenic fungi and nematodes](#)
- 7304141- [Human leucine-rich repeat containing protein expressed predominately in bone marrow, HLRRBM1](#)
- 7304206- [Plants transformed with polynucleotides encoding broad-spectrum delta-endotoxins](#)
- 7306946- [Antifungal polypeptides](#)
- 7309779- [Antibodies directed to the testis-specific tubulin tyrosine-ligase-like protein, BGS42](#)
- 7312051- [Polynucleotides encoding dendritic enriched secreted lymphocyte activation molecule](#)
- 7339032- [Human relaxin receptor HGPRBMY5v1](#)
- 7344860- [Polynucleotide encoding a novel human P2X7 splice variant, HBMYP2X7v](#)
- 7344882- [Polynucleotides encoding variants of the TRP channel family member, LTRPC3](#)
- 7304089- [Preparation for improved dietary utilisation](#)
- 7378499- [Genes encoding proteins with pesticidal activity](#)
- 7371822- [Human G-protein coupled receptor variant of HM74, HGPRBMY74](#)
- 7371552- [Polypeptide](#)
- 7371388- [Treatment of Sjogren's syndrome by administration of TR18 polypeptides](#)
- 7368531- [Human secreted proteins](#)
- 7368527- [HADDE71 polypeptides](#)
- 7345148- [Human G-protein coupled receptor, HGPRBMY29sv1 polypeptides](#)

- 7348149- [Methods of diagnosing Parkinson's disease by measuring expression level of RNA encoding human protein HLLRCR-1](#)
- 7351878- [Methods of protecting plants from pathogenic fungi](#)
- 7358074- [Human phosphatase RET31, and variants thereof](#)
- 7345143- [Plastid transit peptides](#)
- 7429454- [DNA probes useful in detecting .delta.-endotoxin-encoding sequences and uses thereof](#)
- 7423197- [Methods of using non-plant lipase encoding nucleic acids](#)
- 7420044- [Nucleic acid and protein homologs and uses thereof](#)
- 7417121- [Human G-protein coupled receptor, HGPRBMY39](#)
- 7414174- [Methods of using non-plant lipase encoding nucleic acids](#)
- 7411051- [Antibodies to HDPPA04 polypeptide](#)
- 7408640- [Fluorescence polarization instruments and methods for detection of exposure to biological materials by fluorescence polarization immunoassay of saliva, oral or bodily fluids](#)
- 7396980- [Defensin polynucleotides and methods of use](#)
- 7393934- [Human G-protein chemokine receptor \(CCR5\) HDGNR10](#)
- 7390637- [Keratinocyte derived interferon](#)
- 7429646- [Antibodies to human tumor necrosis factor receptor-like 2](#)
- 7381800- [Antibodies to HBIMF63 polypeptide](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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