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欢迎

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Britannica Academic

大英百科学术版为进行全面的跨学科研究 提供了所有必要条件。在不同领域的诺贝 尔奖获得者,历史学家,专业顾问,教授 和其他著名专家的贡献下,大英百科学术 版以客观公正的国际化视角和洞察力提供 无可比拟的可靠信息。 您可以轻松访问备受赞誉的 《大英百科全书》和韦氏大词 典以及许多其他研究工具所提 供的大量文章和多媒体。

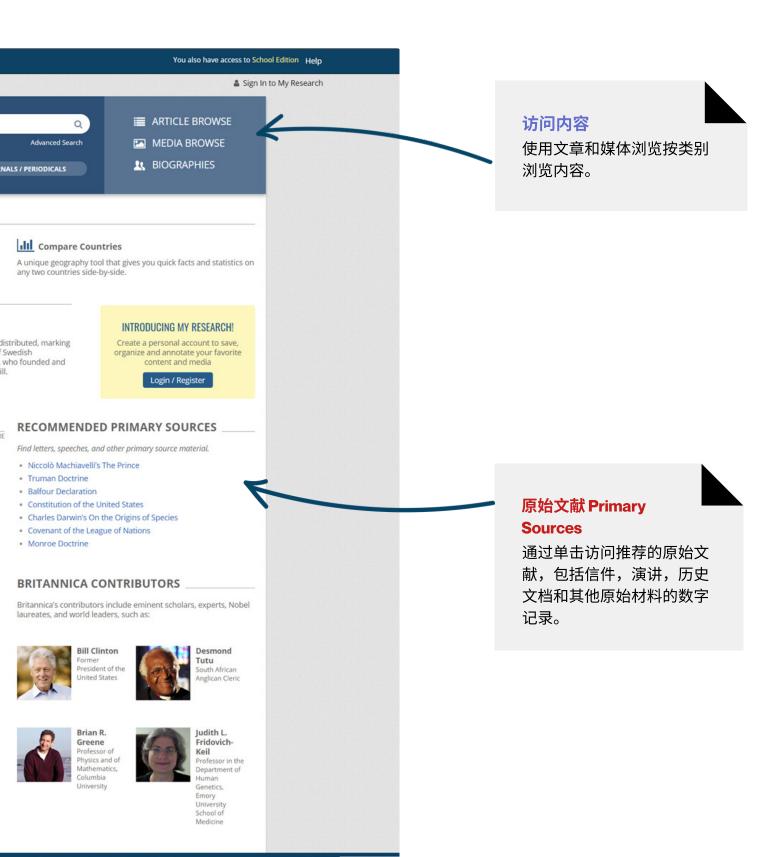
首页



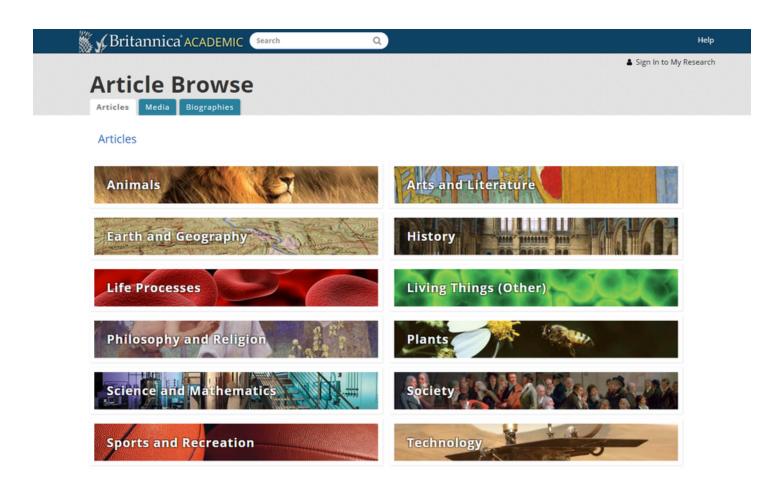
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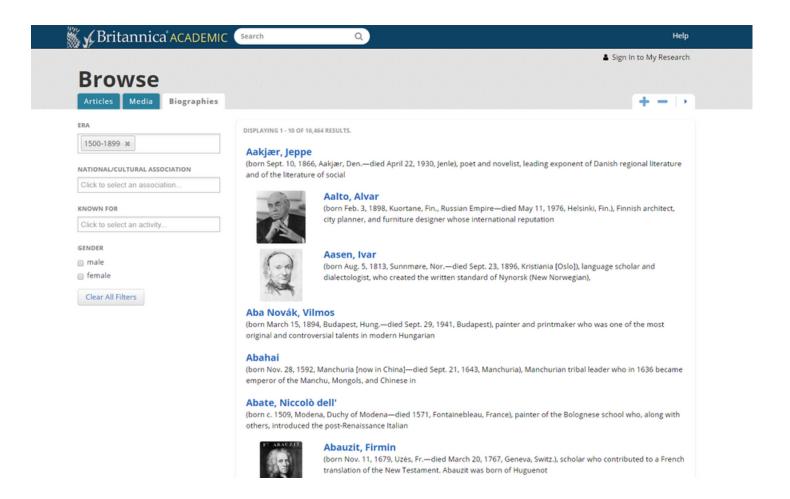


浏览文章和媒体



在主页点击文章浏览(Article Browse)或媒体浏览(Media Browse)可让您按主题和子主题深入探索Britannica Academic的内容。

人物传记



点击"传记" (Biographies) 标签,按性别,时代,国籍及其专业领域搜索和浏览名人传记。 您还可以通过主页上的"传记" (Biographies) 链接进入。

文章页面与阅读工具

文章目录

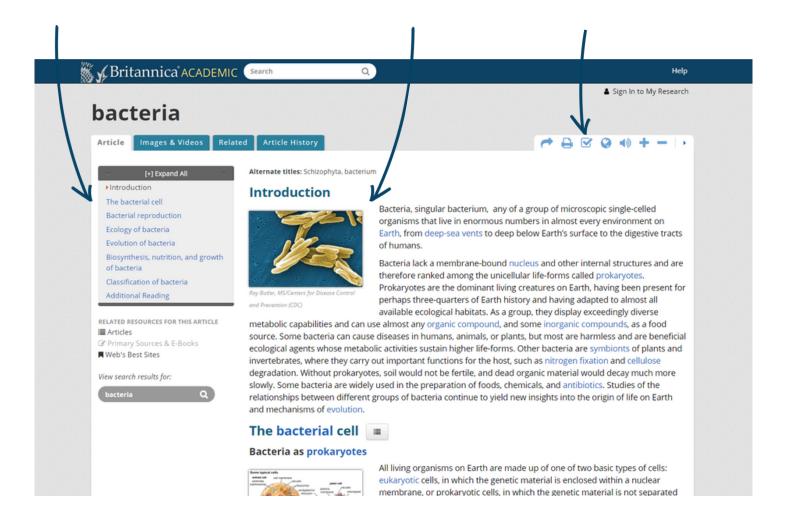
通过单击"目录"中的子主题链接转 跳到文章的任何部分。

图像与视频

单击文章中的任何图像或视频 将在叠加窗口中打开它。

☑ 生成引文出处 Cite

为文章生成引文。有四种标准格式可选:MLA,APA,哈佛或芝加哥格式手册。



→ 收藏与分享

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● 朗读文章

通过文字转语音工具朗读文 章。

② 翻译全文

点击页面底部的语言选项 可将网页从英语翻译成简 体中文。

媒体工具:图像与视频



I how major plants and animals exchange genetic information. But the ways in which microbes like are often overlooked.

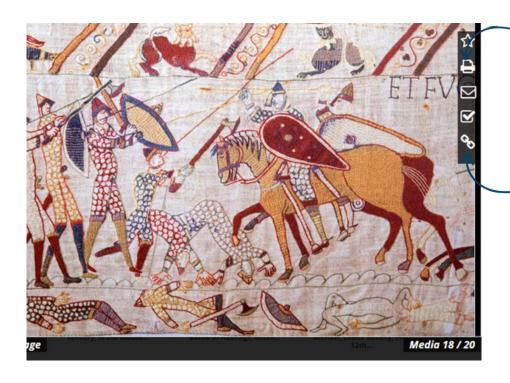
ent mechanisms for the exchange of genetic materials. In one case, a bacterial cell may transfer genetic her bacterial cell through a process called conjugation.

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生成引文出处

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复制链接

点击复制媒体链接。

文章作者查询

Help

are classified on the basis of many characteristics. Cell shape, nature of multicell aggregates, motility, formation of spores, and reaction to the Gram stain are important. Those morphological features, including the shape and colour of bacterial colonies, are not always constant and can be influenced by environmental conditions. Important in the identification of a genus and species of bacteria are biochemical tests, including the determination of the kinds of nutrients a cell can use, the products of its metabolism, the response to specific chemicals, and the presence of particular characteristic enzymes. Other criteria used for the identification of some types of bacteria might be their antigenic composition, habitat, disease production, and requirement for specific nutrients. Some tests are based on the ultrastructure of the bacteria revealed under the electron microscope by negative staining and preparation of thin sections.

Robert J. Kadner

Kara Rogers

Additional Reading

A comprehensive survey of the vast array of bacterial species is presented in George M. Garrity et al. (eds.), *Bergey's Manual of Systematic Bacteriology*, 5 vol., 2nd ed. (2001–12), a reference and sourcebook accepted as standard throughout the world for classification of bacteria and related microorganisms. Advanced textbooks covering all general characteristics of microorganisms—including morphology, physiology, biochemistry, ecological role, and classification—are Michael T. Madigan et al., *Brock Biology of Microorganisms*, 14th ed. (2015); Joanne M. Willey, Linda M. Sherwood, and Christopher J. Woolverton, *Prescott's Microbiology*, 10th ed. (2015); and Lucy Shapiro and Richard Losick (eds.), *Cell Biology of Bacteria* (2011).

THOMAS D. Brock, The Emergence of Bacterial Genetics (1990), describes the historical development of bacterial genetics and molecular biology. Additional coverage of the molecular and genetic features of bacteria is found in LARRY SNYDER et al., Molecular Genetics of Bacteria, 4th ed. (2013). CLIVE EDWARDS (ed.), Microbiology of Extreme Environments (1990); and CHARLES GERDAY and NICOLAS GLANSDORFF (eds.), Physiology and Biochemistry of Extremophiles (2007), are detailed explorations of microorganisms that live in extreme environments.

Bacteria in the human body and their role in human health and disease are discussed in JULIAN MARCHESI (ed.), The Human Microbiota and Microbiome (2014).

Robert J. Kadner

EB Editors



滚动到文章末尾单击Article Contributors查看文章贡献者以及他们在该主题方面做过的相关研究与贡献。通过Additional Reading查看额外阅读和参考建议,以帮助您进一步进行研究。

研究工具

关键词搜索

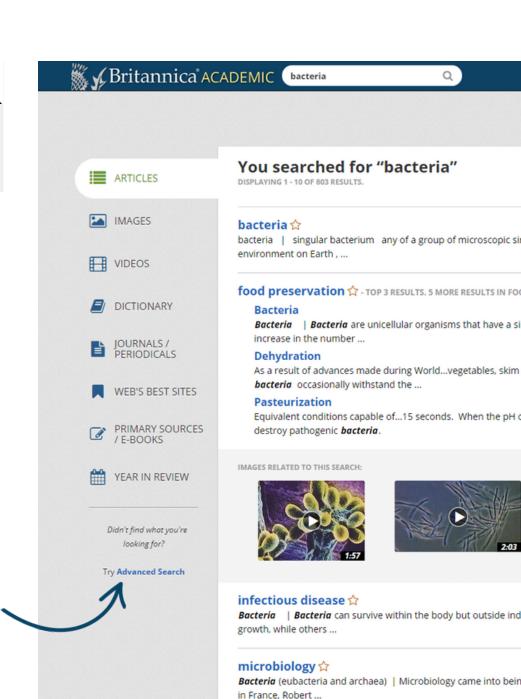
在搜索框中键入关键词,例如"bacteria",开始搜索。

过滤搜索结果

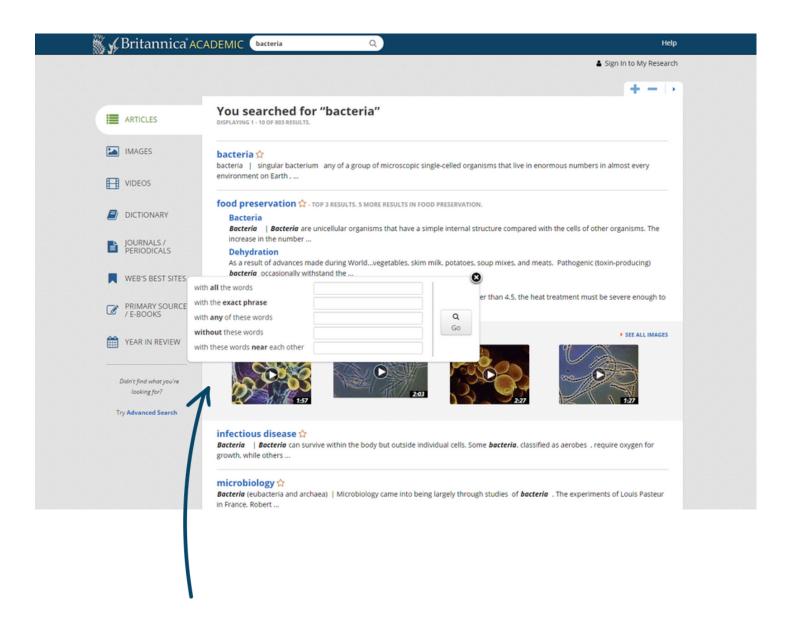
通过左侧菜单内的图标按 内容类型筛选搜索结果, 例如文章(articles),图像 (images),视频(videos), 词典(dictionary),期刊杂志 (journals/periodicals),原始 文献与电子书(primary sources/e-books) 或年度回 顾 (Year in Review)。

高级搜索

使用"高级搜索"进一步优化 搜索结果。

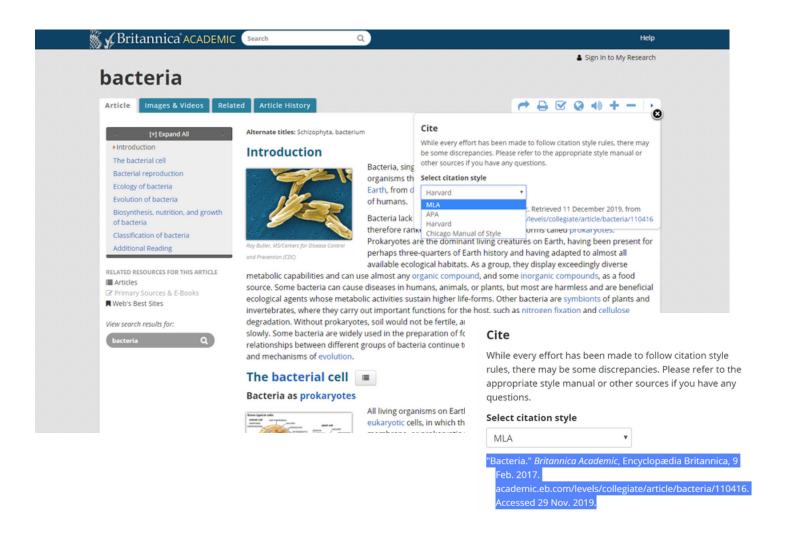


高级搜索



高级搜索允许您使用参数 来优化搜索。 您可以输入一个或多个可用的高级搜索参数(如下)。 大英百科的搜索引擎将查找与您指定的所有参数匹配的内容。

引文工具



引文工具可以按照多个规范格式为您生成引用文章或媒体出处。单击工具栏中的引用(Cite)图标打开引用弹窗,从下拉菜单中选择一个格式。复制生成的引文并根据需要粘贴到另一个文档中。

- MLA
- · ADA
- Chicago Manual of Style
- Harvard

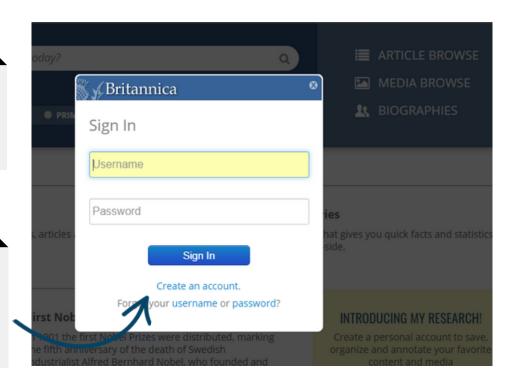
My Research: 创建个人账号

登录

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创建账号

在登录窗口中,点击"Create an account"。输入您的详细信息,然后创建帐户。



→ □ ☑ ② → → + This item has been added to your favorites. Iternate titles: Schizophyta, bacterium ntroduction Add this to an existing Resource Pack: Bacteria organisr Prokaryotes × Review all Resource Packs Earth, fr Create a new Resource Pack and add this item: of huma Bacteria therefor Prokaryotes are the dominant living creatures on Earth, having be resent for perhaps three-quarters of Earth history and having adapted to almo available ecological habitats. As a group, they display exceedingly diver

netabolic capabilities and can use almost any organic compound, and some inorganic compounds, as a food ource. Some bacteria can cause diseases in humans, animals, or plants, but most are harmless and are beneficial cological agents whose metabolic activities sustain higher life-forms. Other bacteria are symbionts of plants and overtebrates, where they carry out important functions for the host, such as nitrogen fixation and cellulose egradation. Without prokaryotes, soil would not be fertile, and dead organic material would decay much more lowly. Some bacteria are widely used in the preparation of foods, chemicals, and antibiotics. Studies of the elationships between different groups of bacteria continue to yield new insights into the origin of life on Earth nd mechanisms of evolution.

he bacterial cell

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My Research: 整理内容

My Content

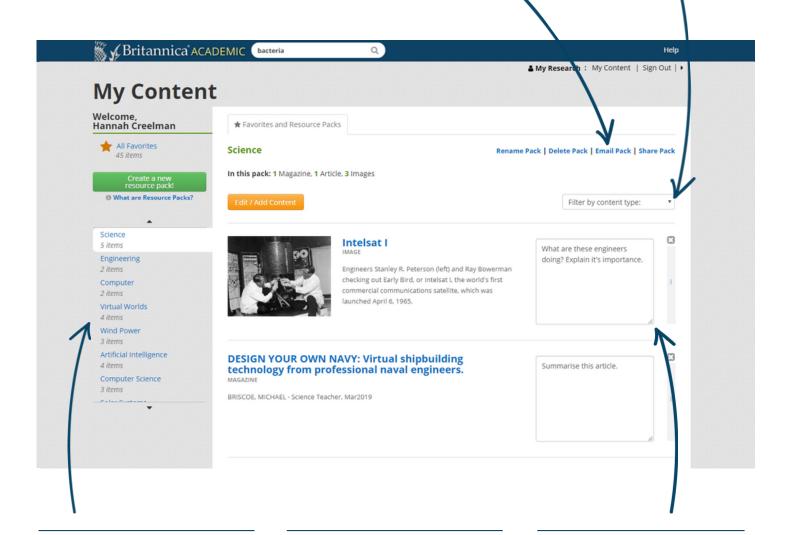
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分享资源包

通过生成的链接或电子邮件分享您的资源包。

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点击"Filter by content type"按类型筛选您的收藏内容,例如图片。



资源包 Resource Packs

点击查看所有已收藏内容或者 创建一个新的资源包。

整理内容

将任何收藏内容拖放到左侧的 任意资源包中。

添加备注 Notes

为已收藏的内容添加备注。

英语为非母语用户

字典 Dictionary

双击文章中的任意单词查看字 典定义。由韦氏大词典提供英 语注解。

朗读文章 Read Aloud

通过文字转语音工具朗读文章。



学术版具有一系列內置工 具,为英语为非常用语用户 提供多方面阅读支持。

② 全文翻译

通过将所有页面翻译成简体中文来支持英语为第二语 言的用户。在语言之间切换以增强英语理解能力。

笔记 Notes





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