# Britannica Academic

Fast and easy access to trusted information with one of the world's most trusted reference databases.



Britannica Academic provides expert-reviewed information with balanced, global perspectives and insights that students won't find anywhere else.

Content experts from the past and present include:







**100+** Heads of States & World Activists



50 Notable Sports Figures





# Britannica Academic is helping support learning institutions by putting a database of the very best and accurate sources at your fingertips



Expand your reach by providing both on-site and remote access to Britannica's complete database to students.



Enrich your current collection with tools and resources that empower self-led research and learning at the highest level.



Become an immediate expert ready to serve your students with our easy-to-implement technology, account support, and enhanced training.



Provide a search platform for your students that allows them to easily uncover abundant, trusted, vetted, and cited content on every subject within seconds.



Provide resources with confidence, knowing that Britannica Academic is actively working against the proliferation of false information by providing direct access to content that is fact-checked through a rigorous editorial process.

contact@eb.com|800-621-3900|britannicalearn.com/academic

# **Britannica Academic includes:**

# 100,000+ fact-checked

articles that all include the date they were last updated

Thousands of vetted journal and magazine articles with complete citations



#### tissue culture

#### ARTICLE IMAGES & VIDEOS RELATED ARTICLE HISTORY

Introduction

Table of Contents — Introduction Historical developments Culture environments Primary cultures and established cell lines Processing of cultured cells and tissues Biological insights

#### sue culture, a method of biological research in which fragm from an animal or plant are transferred to an artificial envi onment in whic Informat animation plant are claristeric to carl activities in moviment in with they can continue to survive and function. The cultured tissue may consist a single cell, a population of cells, or a whole or part of an organ. Cells in culture may multiply; change size, form, or function; exhibit specialized activity (muscle cells, for example, may contract); or interact with other co

#### **Historical developments**

Listorical developments A early sterent status contrave som and en 185 by German cooligit Withelm Baxe, who collivated issue from a chick embyo in a warm ask solution. The first rank and the solution of the solution of the solution of the provide of generative and end of the solution of the provide of generative and end of the provide of generative and end of the solution of th

#### **Culture environments**

Cells may be grown in a culture medium of biological origin such as blood serum or tissue extract, in a chemically defined synthetic medium, or in a mixture of the two. A medium must contain proper proportions of the necessary nurefiers for the cells to basculdar and must be appropriately add or adalme. Cultures are usually grown either as single layers of cells on a glass or plastic surface or as a suspension in a liquid or

### **Access to World Factbook**

# **Curated lists of other** database resources that

users can access

Simple but advanced search tools including search access to the EBSCO database

100,000+ Merriam-Webster definitions in English and Spanish

#### World Atlas



Hints

Zoom in by double-clicking on an area or using the + and - buttons.
Change the area of the world that's visible by clicking and dragging the r