

STATE LIBRARY¹
QUEENSLAND

Year 9 Biological Sciences

Unit 1 – Body Systems.

Unit 2 – Reproductive Systems.

Cover: Selection of databases available through State Library, 2023.

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This research guide is designed for individual use by students.

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Overview

As Queensland's leading research library, State Library is a great place to find information to complete your research-based assessments.

State Library's One Search catalogue is the gateway to an extensive suite of national and international journals, databases, eBooks, encyclopedias, newspaper archives, and collections of thousands of historical images, letters, artworks, diaries, and artefacts to interrogate as sources.

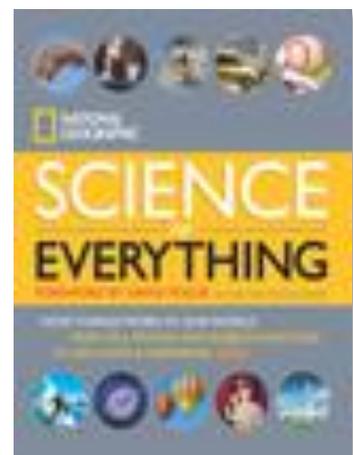
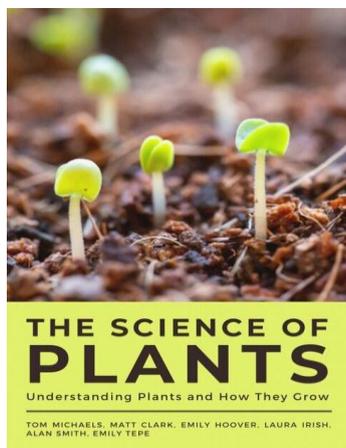
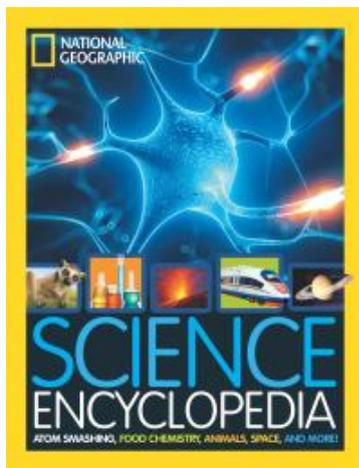
Before you get started

[Become a member](#) of State Library of Queensland (it's free!).

Once you have joined State Library, [log in](#) to your account in One Search so you can use the links in this research guide to access the featured collection items.

You can search our [OneSearch catalogue](#) or begin exploring by clicking on some of the featured items contained in this research guide.

E-Books



[Queensland Museum](#) provide Learning Resources website students with many activities, fact sheets, images, and videos.

The screenshot shows the Queensland Museum Learning Resources website. The header includes the Queensland Museum Network logo, the text 'Learning Resources', and navigation links for 'Home', 'About', and a 'Save list' button. Below the header, it states 'Showing 15 of 66 resources'. Three resource cards are displayed:

- Carnivorous Sponges and Deep Sea Creatures**
Years: 5, 6, 7, 8, 9, 11, 12
- Project DIG 3D Gallery | Sketchfab**
Years: Early Years, Prep, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Other
Biology
- Project DIG | Meet the Megafauna**
Years: Early Years, Prep, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Other
Biology

The [Australian Institute Aboriginal and Torres Strait Islander Studies](#) is a powerful tool for First Nations reading and research. Their online database and research projects can provide incredible insight into science from the First Nations perspective.

The screenshot shows the AIATSIS website. The header includes the AIATSIS logo, navigation links for 'Explore', 'Family history', 'Collection', 'Research', 'Education', 'What's new', and 'About', a 'Shop' button, and a search bar. The main content area features the title 'Ngurrara 2 way learning project' and a 'Share' button with social media icons for Facebook, Twitter, and Email. Below the title is a decorative graphic with orange, black, and white wavy lines. To the right of the graphic, the following information is displayed:

- Publication date**
Wednesday, 1 June 2016
- Type**
Presentation
- Event**
2016 National Native Title Conference
- Brendan Fox , Peter Murray**
- Attachment/s**
[presentation.pdf \(PDF, 15.64 MB\) >](#)

Body Systems

Compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism

- exploring the body's observable responses to external stimuli (such as changes in light or temperature, or presence of danger or pathogens) or internal stimuli (such as dehydration or hunger).
- using models, flow diagrams and virtual simulations to explore and represent the relationships between body systems that are necessary to coordinate a response to stimuli.
- comparing the role and function of electrical impulses and hormones in the body's responses to external stimuli.
- modelling how the process of regulation is monitored and adjusted by connections between the receptor, command centre and effector.
- examining the effects of a disorder in a feedback system, such as diabetes-induced blindness or hypothermia.
- considering how understanding of feedback mechanisms has enabled the development of pharmaceuticals and other products to address issues or enhance performance, such as insulin or electrolytes in sports drinks.

[Oxford Reference](#) spans 25 different subject areas, bringing together 2 million digitised entries across Oxford University Press's dictionaries, companions, and encyclopedias.

The screenshot shows the Oxford Reference website interface. At the top, there is a search bar and navigation tabs for 'Subject' and 'Reference Type'. Below the search bar, the page title is 'Oxford Reference Search Results'. On the left, there is a sidebar with 'Signed in as: State Library of Queensland' and a 'Narrow Your Choices' section with 'REFINE TERMS' set to 'All'. The main content area shows 'You are looking at 1-20 of 237 entries for:'. Below this, there are filters for 'All: Body Systems and Biology', 'Science and technology', and 'Life Sciences'. The search results are displayed in a list view, showing the entry for 'blood vascular system' with a reference type of 'Overview Page' and a subject of 'Science and technology, Life Sciences'. The entry text reads: 'The tissues and organs of an animal that transport blood through the body. In vertebrates it consists of the heart and blood vessels. See vascular system.'

The [Britannica Library](#) has articles, images and more, with a selection of resources especially for teenagers.

The screenshot shows the Britannica Library website interface. At the top, there are navigation tabs for 'Articles', 'Images', 'Videos', and 'More'. The search results are displayed in a list view, showing the entry for 'human body' with a description: 'the physical substance of the human organism, composed of living cells and extracellular materials and organized into tissues, organs, and ...'. Below this, there is an entry for 'human nervous system (anatomy)' with a description: 'system that conducts stimuli from sensory receptors to the brain and spinal cord and conducts impulses back to other parts of the ...'. A section titled 'images related to this search:' contains four image thumbnails: a diagram of a human body, a diagram of a human nervous system, a video player showing a close-up of cells, and a diagram of the human circulatory system. Below the images, there are more search results, including 'armour (protective clothing)' and 'mechanics (physics)'. The 'armour' entry has a description: 'Modern body armour systems | In the 1980s the U.S. Army developed the Personnel Armor System for Ground Troops (PASGT), which was composed of a newly designed ...'.

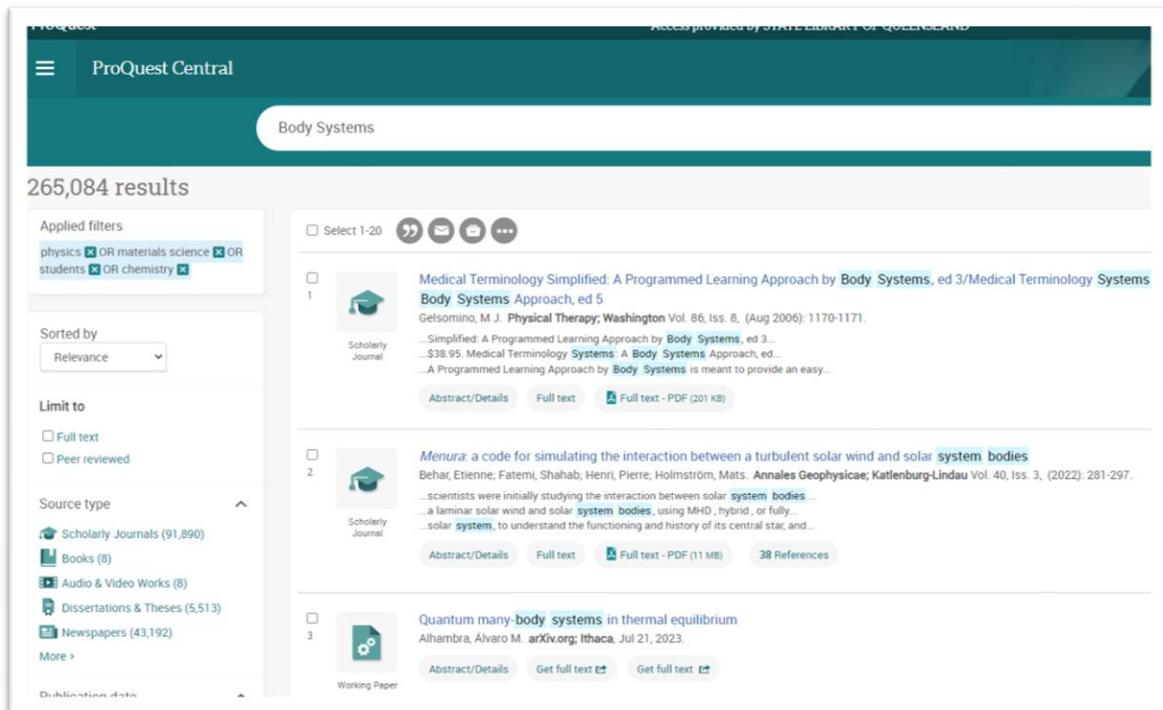
[JSTOR](#) provides access to more than 12 million scholarly journal articles and eBooks, and is especially good for primary sources.

The screenshot shows the JSTOR search results page for the query 'Body Systems'. The page displays 758,443 results. On the left, there is a 'Refine Results' sidebar with filters for 'ACCESS TYPE' (Everything, Content I can access), 'SEARCH WITHIN RESULTS', and 'CONTENT TYPE' (Academic content: Journals, Book Chapters, Research Reports; Primary source content: Serials, Documents, Images). The main results area shows two journal articles. The first is 'Building body systems' by Alison E. Cochrane and Worku Bihonegne, from Science Scope, Vol. 20, No. 8 (MAY 1997), pp. 35-36. The second is 'Making Sense of the Human Body' by Helena Castle, Kira Lowery, and Shelly R. Rodriguez, from Science Scope, Vol. 43, No. 7, TURNING STEM INTO STEAM (MARCH 2020), pp. 12-17. Each article has a 'Download', 'Save', and 'Cite' button.

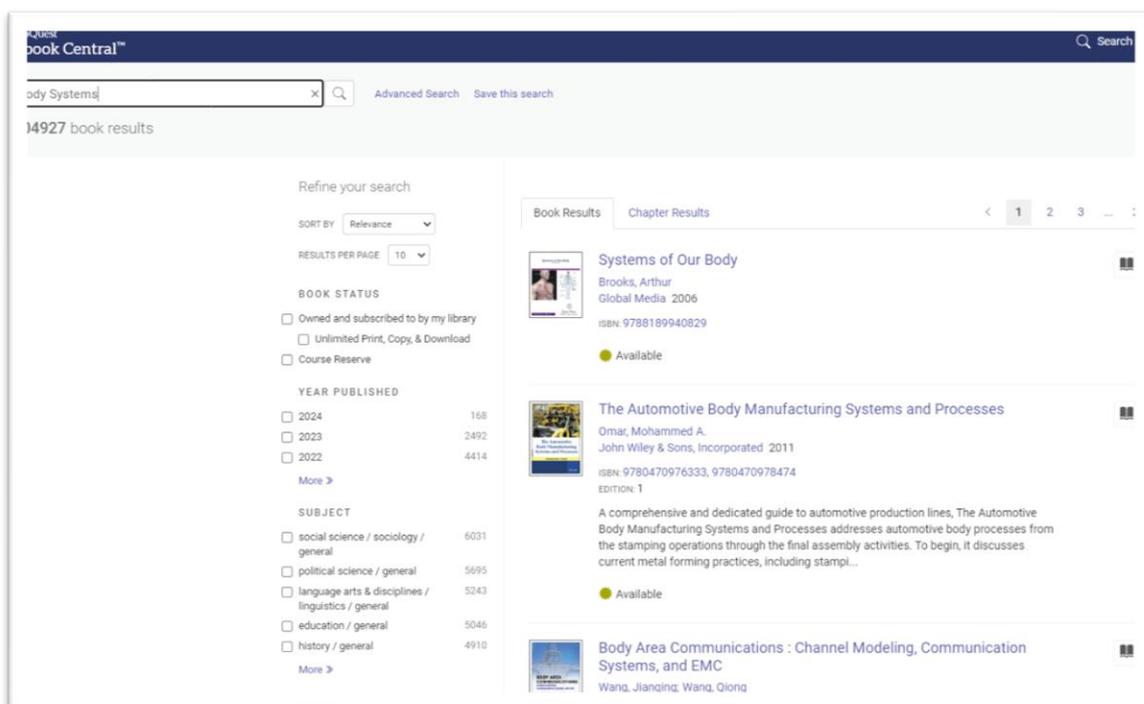
[Gale Interactive: Science](#) provides a comprehensive view of the most-studied science subjects. Authoritative, high-quality digital content is paired with interactive 3D models.

The screenshot shows the Gale Interactive Science search results page for the query 'Body Systems'. The page displays 45 search results. On the left, there is a 'FILTER BY CATEGORY' sidebar with filters for Biology (91), Chemistry (74), Earth Science (23), Common Core State Standards (213), Next Generation Science Standards (164), and Human Anatomy (35). The main results area shows several interactive 3D models and descriptions of body systems: Skeleton, Urinary System, Digestive System, Blood, Respiratory System: Alveoli, Explore: Digestive System, and Male Reproductive System. Each result includes a brief description and relevant educational standards.

[ProQuest Central](#) brings together 47 databases across 175 subject areas, providing easy intuitive access to an incredibly broad and comprehensive range of content.



[ProQuest Ebook Central](#) Compiles a library of topic specific ebooks for you to access free through your SLQ membership.



Reproductive Systems

Describe the form and function of reproductive cells and organs in animals and plants, and analyse how the processes of sexual and asexual reproduction enable survival of the species.

- Examining how the male and female reproductive organ structures work collectively as a system.
- Explaining how the forms of male and female gametes relate to their specific function.
- Identifying and comparing sexual and asexual reproductive strategies in plants.
- Exploring how sexual reproduction creates a greater rate of variation among offspring compared with asexual reproduction.
- Examining how the reproductive strategies of multicellular animals are related to their environment and the complexity of the organism.
- Examining how the number of offspring produced by animals is related to the amount of parental care.

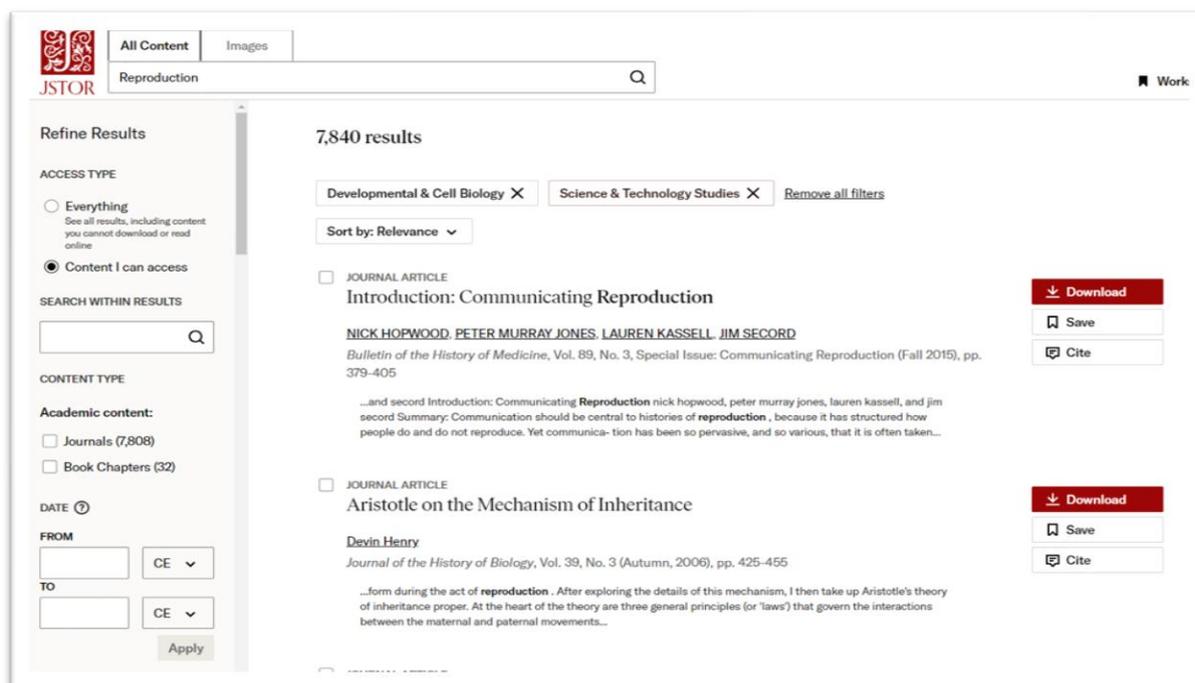
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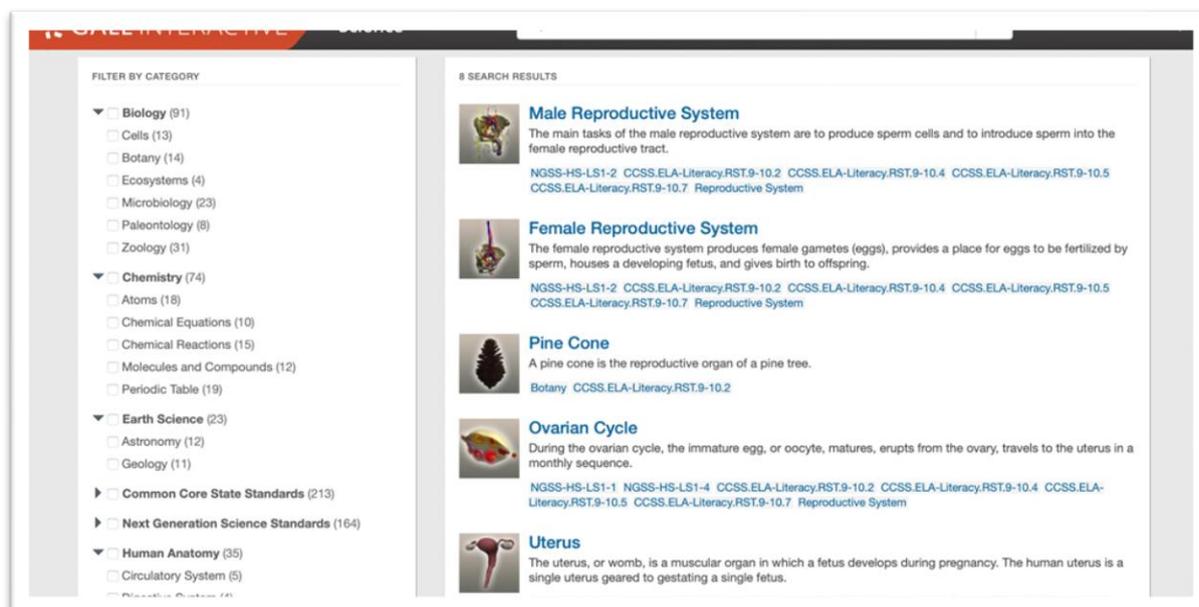
The [Britannica Library](#) has articles, images and more, with a selection of resources especially for teenagers.

The screenshot shows the Britannica Library website interface. At the top, the 'Britannica Library' logo is on the left, and a search bar is on the right. Below the logo, there are navigation tabs for 'Your Britannica Resources', 'Research Tools and Materials', 'Help', and 'My Britannica'. The main content area is titled 'You searched for "reproduction"'. Below this, there is a 'Reading Level' section with '1', '2', and '3' options, and an 'Advanced Search' button. The search results are categorized into 'Articles', 'Images', 'Videos', and 'More'. The first result is for 'plant (life-form)', with a sub-section for 'Asexual Reproduction'. The text describes that some plants may reproduce asexually, with mosses and liverworts having cuplike structures on their leaves or stems. Another sub-section is for 'Sexual Reproduction', which explains that in sexual reproduction, male and female cells (gametes) unite to form a zygote, which then undergoes further development. A third sub-section is for 'Plant Reproduction and Growth', stating that plants continue to live on Earth by producing new plants through reproduction, which can be asexual or sexual.

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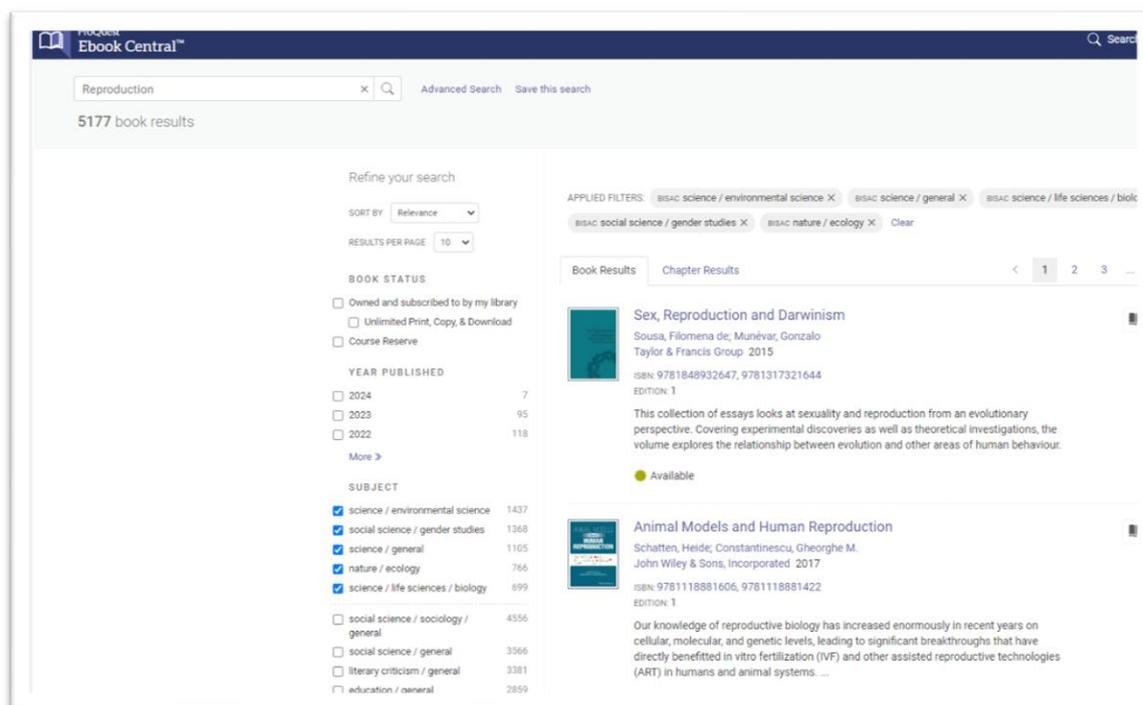
[Gale Health and Wellness](#) provides access to trusted medical reference materials including journals, pamphlets, and health-related videos and articles from over 2,200 publications.

The screenshot shows the Gale Health and Wellness interface. At the top, there's a search bar with 'reproduction' entered and an 'Advanced Search' button. Navigation icons for 'Browse Topics', 'Search History', 'Get Link', and 'Highlights And N' are visible. Below the search bar, the results are categorized by content type: Reference (80), Audio (100), Magazines (5,268), News (33,250), Videos (28), and Academic Journals (6,993). A 'Filter Your Results' section includes options for Subjects, Publication Title, Document Type, Publication Date, Sections, and Search With. Checkboxes for 'Full Text Documents', 'Document Contains Images', 'Consumer Health', 'En Español', and 'Peer-Reviewed Journals' are present. A 'Topic Finder' section encourages discovering related topics and results.

[ProQuest Central](#) brings together 47 databases across 175 subject areas, providing easy intuitive access to an incredibly broad and comprehensive range of content.

The screenshot displays the ProQuest Central search results for 'Reproduction'. The page shows '1,004 results'. On the left, there are filters for 'Applied filters' (including 'times', 'OR humans', 'OR animal', 'OR pregnancy', 'OR plant reproduction', 'OR fish', 'OR males', 'OR biology') and 'Sorted by' (set to 'Relevance'). Below these are options for 'Full text', 'Peer reviewed', 'Article type', and 'Publication date'. The main results area lists three articles: 1. 'A little bit pregnant: towards a pluralist account of non-sexual reproduction' by Hall, Georgina Antonia, from the Journal of Medical Ethics; 2. 'Vocalization Behavior of Chinese Bahaba (Bahaba taipingensis) during the Reproduction Season' by Li, Hongquan, et al., from the Journal of Marine Science and Engineering; 3. 'New choreographies of inequalities in reproduction: an overview of assisted reproduction market' by Garcia, Sandra Mara, from JBRA Assisted Reproduction. Each result includes a snippet of the abstract and options for 'Abstract/Details', 'Full text', and 'Full text - PDF'.

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