



ScienceDirect

ScienceDirect contains citations to 2,500 journals and 6,000 books published since 1998. Briggs Library may not have access to all of the citations in full text, but you can search the entire database and then order what you need through ILL.

Searching

ScienceDirect's basic search allows you to search for keywords in the title or abstract, author, journal or book title. The database interprets spaces as the word AND.

The screenshot shows the ScienceDirect website interface. At the top left is the ScienceDirect logo. Below it is a navigation bar with tabs for Home, Browse, Search, My Settings, Alerts, and Help. The Search tab is active. Below the navigation bar is a search form with the following fields: "Quick Search" (Title, abstract, keywords), "Author", "Journal/book title", "Volume", "Issue", and "Page". There are also "Clear" and "Go" buttons, and a link to "Advanced Search".

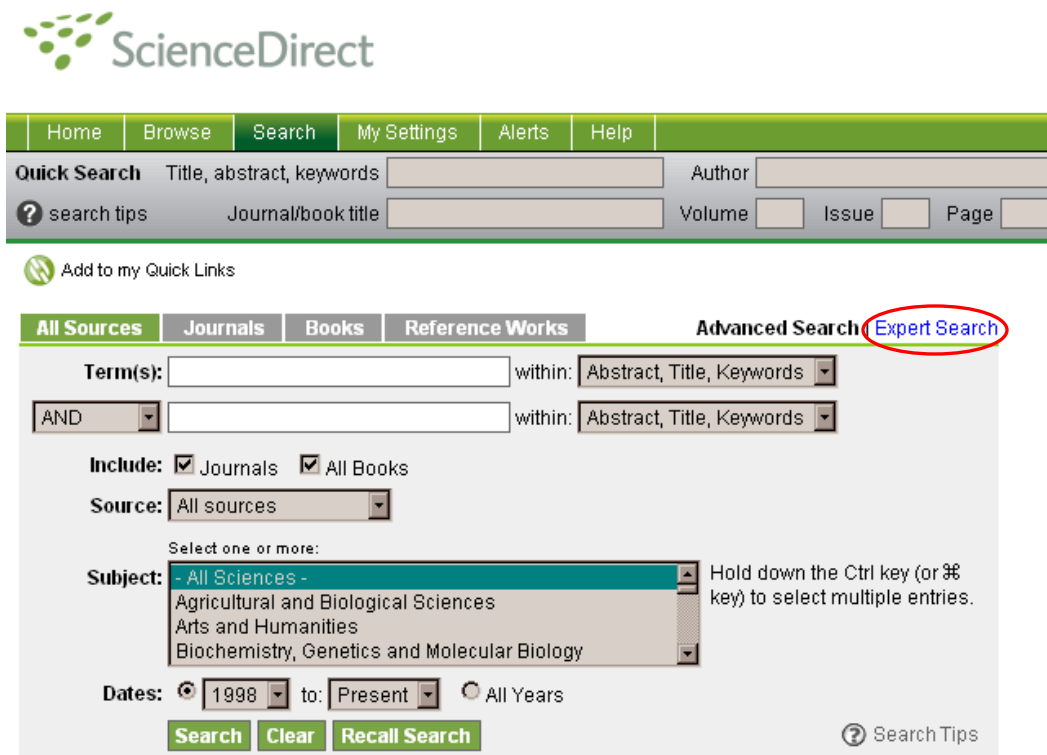
You can also browse entries by journal using the subject guides in the left pane.

The screenshot shows the "Browse" pane on the ScienceDirect website. It displays a list of subject categories under the heading "Browse by subject". The categories are: Physical Sciences and Engineering, Life Sciences, Health Sciences, and Social Sciences and Humanities. Each category has a list of sub-categories.

- Physical Sciences and Engineering**
 - Chemical Engineering
 - Chemistry
 - Computer Science
 - Earth and Planetary Sciences
 - Energy
 - Engineering
 - Materials Science
 - Mathematics
 - Physics and Astronomy
- Life Sciences**
 - Agricultural and Biological Sciences
 - Biochemistry, Genetics and Molecular Biology
 - Environmental Science
 - Immunology and Microbiology
 - Neuroscience
- Health Sciences**
 - Medicine and Dentistry
 - Nursing and Health Professions
 - Pharmacology, Toxicology and Pharmaceutical Science
 - Veterinary Science and Veterinary Medicine
- Social Sciences and Humanities**
 - Arts and Humanities
 - Business, Management and Accounting
 - Decision Sciences
 - Economics, Econometrics and Finance
 - Psychology
 - Social Sciences

Advanced Searching

The advanced search allows you to combine terms via Boolean operators and limit your searches to publication type or source and by year.



The screenshot displays the ScienceDirect website's search interface. At the top, there is a navigation bar with links for Home, Browse, Search, My Settings, Alerts, and Help. Below this is a 'Quick Search' section with input fields for 'Title, abstract, keywords', 'Author', 'Journal/book title', 'Volume', 'Issue', and 'Page'. A green button labeled 'Add to my Quick Links' is positioned below the search fields. The main search area is divided into 'All Sources', 'Journals', 'Books', and 'Reference Works'. The 'Advanced Search' section is active, and the 'Expert Search' link is circled in red. The 'Advanced Search' form includes fields for 'Term(s)', 'within:' (with a dropdown menu), and a Boolean operator dropdown set to 'AND'. There are checkboxes for 'Include: Journals' and 'All Books', and a 'Source:' dropdown set to 'All sources'. A 'Subject:' dropdown menu is open, showing options like '- All Sciences -', 'Agricultural and Biological Sciences', 'Arts and Humanities', and 'Biochemistry, Genetics and Molecular Biology'. A note next to it says 'Hold down the Ctrl key (or ⌘ key) to select multiple entries.' The 'Dates:' section has radio buttons for '1998' (selected), 'Present', and 'All Years'. At the bottom of the form are 'Search', 'Clear', and 'Recall Search' buttons, along with a 'Search Tips' link.

Expert Searching

If you are looking to create your own search string, with Boolean operators, wildcards and proximity operators, you will need to use the Expert Search available from the Advanced Search page.

Search Rules

Wildcards (* ?) can be used in fields that allow words and phrases, and there are two different wildcards that can be used independently or together. Wildcards cannot be used at the beginning of a word (*ology) or in a publication year search (200*).

- The asterisk (*) represents any characters including no character.
*ex. environment** matches:
environment
environments
environmental
- The question mark (?) represents any single character. You can repeat the question mark for the number of letter you are unsure of.

ex. **m?n** matches:

man
men

Boolean operators can be used in the Expert Search. The operators available in ScienceDirect are:

- AND: all terms in the search appear in the results
- OR: at least one term in the search appears in the results
- AND NOT: excludes terms from the search
- W/n: searches for terms within a certain number of words of the other term (ex. drug W/3 addiction will find the words "drug" and "addiction" within 3 words of each other)
- PRE/n*: searches for term preceding other term by a certain number of words (drug P/3 addiction will find the citations in which the word "drug" precedes "addiction" by three or less words)

If parentheses are not used, the terms will be processed in order of precedence:

1. OR
2. W/n | PRE/n
3. AND
4. AND NOT

Phrase searching is useful when searching for an exact phrase. If you are looking for articles about "smart cars" by enclosing the phrase in quotation marks, you will remove an results in which "smart" and "car" appear in the citation but do not relate directly to "smart cars." Wild cards can also be used in phrase searching.

If the phrase you are searching contains punctuation, stop words or special characters use brackets ({}) around the phrase.



* Do not combine W/n with PRE/n unless you are using parenthetical searching.

Results

Let's try an Expert Search on stress and the immune system. Using Boolean operators, the search string will be stress AND "immune system."

The screenshot shows the ScienceDirect search results page. At the top, the ScienceDirect logo is on the left, and 'Login: Register' is on the right. Below the logo is a navigation bar with 'Home', 'Browse', 'Search', 'My Settings', 'Alerts', and 'Help'. The search bar contains the query 'pub-date > 1997 and stress AND immune system' and shows '24,676 articles found for: pub-date > 1997 and stress AND immune system'. Below the search bar, there are options to 'Edit Search', 'Save Search', 'Save as Search Alert', and 'RSS Feed'. The results are sorted by 'Date | Relevance'. On the left, there is a 'Refine Results' sidebar with filters for 'Content Type' (Journal, Book, Reference Work), 'Journal/Book Title', and 'Year'. The main results area shows a list of six articles, each with a green square icon indicating full-text availability, a title, journal information, authors, and links for 'Preview', 'PDF', and 'Related Articles'.

As you can see, the search returned over 26,000 citations, so the search will need to be further limited to make it useful.

If you see  you know you are entitled to the article in full text, and all of listings in the screen shot are available as PDFs. If the article has a  next to it, even though the citation indicates there is a PDF of the article, you cannot access the article through the ScienceDirect database. You will need to search the "E-Journal Finder" from the library home page to determine if the article is available through another database or ILL.

Clicking on the article link will take you to the full details page with a copy of the abstract if available and a link to the PDF.

No articles were found that cite this article.

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doi:10.1016/j.bbr.2008.06.018 | Cite or Link Using DOI
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Research report

Neonatal endotoxin exposure impairs avoidance learning and attenuates endotoxin-induced sickness behavior and central IL-1 β gene transcription in adulthood

Rachel A. Kohman^a, Andrew J. Tart^a, Nathan L. Sparkman^a, Tiryoane M.H. Bogate^a and Gary W. Boehm^a

^aDepartment of Psychology, Texas Christian University, Fort Worth, TX, 76129 USA
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Abstract

Infection during infancy, a time of critical neural development, may have long-term implications. Infection or exposure to an **immune** stimulus such as lipopolysaccharide (LPS) early in life leads to alterations in the reactivity of the hypothalamic–pituitary–adrenal axis (HPA) and febrile response in adulthood. Relatively few studies have assessed the behavioral and cognitive alterations induced by perinatal **immune** challenge. The data indicate that neonatal **immune** activation may alter adulthood behavior with, or sometimes without, subsequent adulthood exposure, depending on the study. The current study investigated the behavioral effects and IL-1 β transcription following intraperitoneal LPS administration on postnatal days (PNDs) 4 and 5, and subsequent LPS or saline administration in adulthood. Alterations in anxiety, motor behavior, and learning were assessed in male and female subjects. The results indicate that neonatal endotoxin exposure attenuated the LPS-induced decrease in motor behavior in female, but not male, subjects. Furthermore, perinatal **immune** activation disrupted avoidance learning in male, but not female, subjects in the absence of adulthood LPS administration. In addition, for male subjects, neonatal LPS exposure diminished central IL-1 β gene transcription following adulthood LPS administration. These findings indicate that perinatal endotoxin exposure may lead to alterations in the behavioral response to adulthood LPS administration, and provide evidence that early **immune** activation alone may trigger alterations in adulthood learning ability.

Keywords: Perinatal; Lipopolysaccharide; Cytokines; Interleukin-1; Anxiety; Sickness behavior; Bacterial endotoxin; Learning

Article Outline

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