

# Поиск литературы и составление библиографии

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REVIEW

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## Biological Activity of Hemoprotein Nitrosyl Complexes

A. N. Osipov<sup>1\*</sup>, G. G. Borisenko<sup>2</sup>, and Yu. A. Vladimirov<sup>3</sup>

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<sup>2</sup>*Research Institute for Physical and Chemical Medicine, Malaya Pirogovskaya ul. 1a, 119992 Moscow, Russia; fax: (495) 246-4401; E-mail: info@ripcm.org.ru*

<sup>3</sup>*Faculty of Basic Medicine, Lomonosov Moscow State University, Lomonosovsky pr. 31/5, 119192 Moscow, Russia; fax: (499) 932-8814; E-mail: info@fbm.msu.ru*

Received May 14, 2007

**Abstract**—Chemical and biological functions of hemoprotein nitrosyl complexes as well as their photolysis products are discussed in this review. Chemical properties of nitric oxide are discussed, and major chemical reactions such as interaction with thiols, free radicals, and transition metals are considered. Specific attention is paid to the generation of hemoprotein nitrosyl complexes. The mechanisms of nitric oxide reactions with hemoglobin and cytochrome *c* and physicochemical properties of their nitrosyl complexes are discussed. A review of photochemical reactions of nitrosyl complexes with various ligands is given. Finally, we observe physiological effects of visible radiation on hemoprotein nitrosyl complexes: smooth muscle relaxation and reactivation of mitochondrial respiration.

DOI: 10.1134/S0006297907130068

*Key words*: hemoproteins, nitric oxide, laser radiation

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При сравнении обычной библиотечной карточки...

*На бумажной карточке есть:*

Автор [au]

Название [ti]

Год [dp]

Страницы [pg]

Но все эти поля есть и  
в  
электронной карточке  
в PubMed'e



Мл84(3)

Н84

**Носов Н.**

**Приключения Незнайки и его друзей:  
Роман-сказка / Худож. В.Жигарев.- М.:  
Стрекоза-Пресс, 2005.- 192с.**

*Веселая сказка о мальчишке, который жил в  
Цветочном городе, на улице Колокольчиков, вместе  
со своими друзьями Знайкой, Торопыжкой,  
доктором Пилюлькиным и многими другими.*

# ... с электронной карточкой

## *На электронной карточке есть:*

PMID- 16408039

TI - Cytochrome c acts as a cardiolipin oxygenase required for release of proapoptotic factors.

PG - 223-32

AB - Programmed death (apoptosis) is turned on in damaged or unwanted cells to secure their clean and safe self-elimination. The initial apoptotic events are coordinated in mitochondria, whereby several proapoptotic factors, including cytochrome c, are released into the cytosol to trigger caspase cascades.

AD - Center for Free Radical and Antioxidant Health and Department of Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, Pennsylvania 15260, USA. vkagan@eoh.pitt.edu

FAU - Kagan, Valerian E

AU - Kagan VE

FAU - Tyurin, Vladimir A

LA - eng

GR - 1R01 HL70755/HL/NHLBI NIH HHS/United States

TA - Nat Chem Biol JT - Nature chemical biology

JID - 101231976

RN - 0 (Cardiolipins)

MH - Animals MH - Apoptosis/\*physiology

EDAT- 2006/01/13 09:00 MHDA- 2006/02/04 09:00 CRDT- 2006/01/13 09:00 PHST- 2005/03/23 [received] PHST- 2005/07/19 [accepted] PHST- 2005/08/14 [aheadofprint] AID - nchembio727 [pii] AID - 10.1038/nchembio727 [doi] PST - ppublish

SO - Nat Chem Biol. 2005 Sep;1(4):223-32. Epub 2005 Aug 14.



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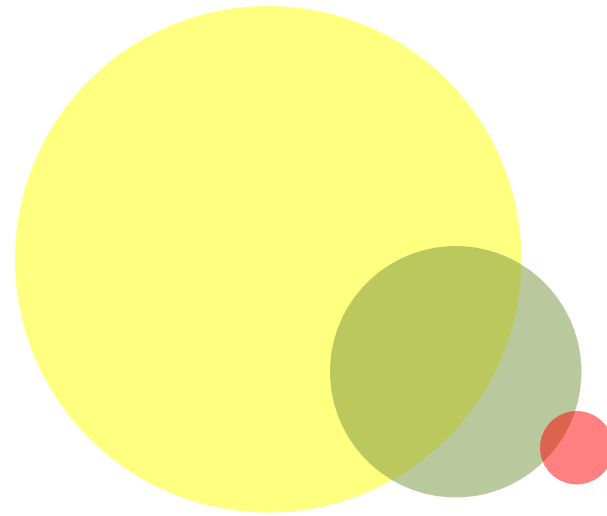
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Вас  
без

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составляется поисковый запрос  
в PubMed'e





# Схема составления поискового запроса

Важно заметить! На наших занятиях (и в Вашей контрольной работе) формулировка ... «посвященные» ... чему-либо будет означать, что это «чему-либо» нужно искать в поле НАЗВАНИЕ (Title). Т.е. [ti]

3. Для того что бы адресовать термин в интересующее Вас поле (авторы, название, год и др) Вам необходимо сразу после термина (без пробела) в квадратных скобках указать соответствующий оператор

*Пероксидазная активность - peroxidase[ti] AND activity[ti]*

# Схема составления поискового запроса

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[The effect of chronic alcohol intoxication and smoking on the activity of oral](#)

1. [peroxidase](#)

Waszkiewicz N, Zalewska A, Szajda SD, Szulc A, Kępka A, Minarowska A, Wojewódzka-Zelezniakowicz M, Konarzewska B, Chojnowska S, Supronowicz ZB, Ladny JR, Zwierz K.  
Folia Histochem Cytobiol. 2012 Oct 8;50(3):450-5. doi: 10.5603/19756.  
PMID: 23042278 [PubMed - in process] [Free Article](#)  
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2. [Ulas T, Dal MS, Demir ME, Buyukhatipoglu H.](#)  
J Midlife Health. 2012 Jan;3(1):52. No abstract available.  
PMID: 22923984 [PubMed] [Free PMC Article](#)  
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[Low concentration of silver nanoparticles not only enhances the activity of horseradish peroxidase but alter the structure also.](#)

3. [Karim Z, Adnan R, Ansari MS.](#)  
PLoS One. 2012;7(7):e41422. Epub 2012 Jul 27.  
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[Decreased selenium-binding protein 1 enhances glutath \[Clin Cancer Res. 2012\]](#)

[Human peroxiredoxin 1 modulates TGF-β \[Biochem Biophys Res Commun. 2012\]](#)

[Multiple reprobing of Western blots after inactivation of pero: \[Anal Biochem. 2009\]](#)

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[Insights into how nucleotide supplements enhance the pe \[Nucleic Acids Res. 2012\]](#)

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# Low Concentration of Silver Nanoparticles Not Only Enhances the Activity of Horseradish Peroxidase but Alter the Structure Also

Zoheb Karim<sup>1\*</sup>, Rohana Adnan<sup>1\*</sup>, Mohd Saquib Ansari<sup>2</sup>

**1** School of Chemical Sciences, Universiti Sains Malaysia, Penang, Malaysia, **2** School of Biomedical Sciences, Shaheed Rajguru College of Applied Sciences for Woman Delhi University, Delhi, India

## Abstract

Chemical synthesis of Ag-NPs was carried out using reduction method. The reduction mechanistic approach of silver ions was found to be a basic clue for the formation of the Ag-NPs. The nanoparticles were characterized by UV-vis, FT-IR and TEM analysis. We had designed some experiments in support of our hypothesis, "low concentrations of novel nanoparticles (silver and gold) increases the activity of plant peroxidases and alter their structure also", we had used Ag-NPs and HRP as models. The immobilization/interaction experiment had demonstrated the specific concentration range of the Ag-NPs and within this range, an increase in HRP activity was reported. At 0.08 mM concentration of Ag-NPs, 50% increase in the activity yield was found. The U.V-vis spectra had demonstrated the increase in the absorbance of HRP within the reported concentration range (0.06–0.12 mM). Above and below this concentration range there was a decrease in the activity of HRP. The results that we had found from the fluorescence spectra were also in favor of our hypothesis. There was a maximum increase in ellipticity and  $\alpha$ -helix contents in the presence of 0.08 mM concentration of Ag-NPs, demonstrated by circular dichroism (CD) spectra. Finally, incubation of a plant peroxidase, HRP with Ag-NPs, within the reported concentration range not only enhances the activity but also alter the structure.

**Citation:** Karim Z, Adnan R, Ansari MS (2012) Low Concentration of Silver Nanoparticles Not Only Enhances the Activity of Horseradish Peroxidase but Alter the Structure Also. PLoS ONE 7(7): e41422. doi:10.1371/journal.pone.0041422

**Editor:** Maxim Antopolsky, University of Helsinki, Finland

**Received:** March 15, 2012; **Accepted:** June 21, 2012; **Published:** July 27, 2012

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## Обращения в определенные поля поиска

*(то что пишется в квадратных скобках после термина поиска)*

**AU-** фамилии и инициалы авторов

osipov[au] (1025 публикаций)

osipov a[au] (226 публикаций)

osipov an[au] (85 публикаций)

**Возможная ошибка:** иногда в международных журналах указывается только один инициал и в поиске osipov a[au] интересующая Вас работа будет, а в osipov an[au] нет.

**Общепринятое правило** – чем конкретнее поиск, тем выше вероятность отсеять нужную информацию, а при снижении конкретности появляется много ненужных публикаций.

Многие фамилии содержат буквы не поддающиеся транслитерации на английский (одной буквой):

**Ж-** zh,

**Ш-** sh

**И-** i, y

**Щ-** shch

**Й-** i

**Ы-** y

**Ий-** ii, y

**Ь-** ', je, i

**Х-** kh

**Э-** e

**Ц-** ts

**Ю-** iu, y, yu, ju

**Ч-** ch

**Я-** ia, ya

**Владимиров**  
**Юрий**  
**Андреевич**

1. lu
2. lua
3. Y
4. Ya
5. Yu
6. yua

# Обращения в определенные поля поиска

FAU- фамилии и инициалы авторов

osipov a[au] (226 публикаций)

osipov anatoly[fau] (1

AD- служебный адрес публикации  
необходимое Вам когда пишете  
исследований.

**Важная заметка  
для любого  
поиска – во всех  
поисковых  
системах есть  
стоп-слова,  
слова  
игнорируемые  
поиском PubMed  
как не несущие  
смысловой**

## Stopwords

| Stopwords |   |
|-----------|---|
| A         | a, about, again, all, almost, also, although, always, among, an, and, another, any, are, as, at           |
| B         | be, because, been, before, being, between, both, but, by  |
| C         | can, could  |
| D         | did, do, does, done, due, during  |
| E         | each, either, enough, especially, etc   |
| F         | for, found, from, further   |
| H         | had, has, have, having, here, how, however  |
| I         | i, if, in, into, is, it, its, itself  |
| J         | just  |
| K         | kg, km  |
| M         | made, mainly, make, may, mg, might, ml, mm, most, mostly, must  |
| N         | nearly, neither, no, nor  |
| O         | obtained, of, often, on, our, overall   |
| P         | perhaps, PMID   |
| Q         | quite   |
| R         | rather, really, regarding   |
| S         | seem, seen, several, should, show, showed, shown, shows, significantly, since, so, some, such             |
| T         | than, that, the, their, theirs, them, then, there, therefore, these, they, this, those, through, thus, to |
| U         | upon, use, used, using  |
| V         | various, very   |
| W         | was, we, were, what, when, which, while, with, within, without, would                                     |

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## Обращения в определенные поля поиска

**SO-** FEBS Lett. 2009 Jan 5;583(1):97-100. Epub 2008 Dec 4

Хотя можно указывать только название журнала в аббревиатуре MedLine[**ta**] (что это такое), или отдельно год[**dp**], или том[**vi**], или первую страницу[**pg**].

**DP-** когда проводится поиск и нужно выбрать интервал дат публикаций то можно задать 2000:2009[**dp**], а если проводится поиск по конкретной дате, то 2009[**dp**].

Аббревиатура MedLine  
FEBS Lett. – FEBS Letters

**Title:** Bulletin of experimental biology and medicine

**ISSN:** 0007-4888 (Print)

1573-8221 (Electronic)

**Title Abbreviation:** Bull Exp Biol Med

**ISO Abbreviation:** Bull. Exp. Biol. Med.

**Publication Start Year:** 1956

**Current Indexing Status:** Currently indexed for MEDLINE.

# Обращения в определенные поля поиска

**IP-** выпуск

**EDAT-** Дата ввода документа в базу (может отличаться от выпуска бумажной версии)

2009[edat]

2006:2009[edat]

**IS** – ISSN

**EIS-** Electronic ISSN

**TI-** одно из самых главных полей поиска – когда перед Вами поставлено задание искать работы посвященные чему-либо, это что-либо нужно искать в частности и в поле[ti]

**AB-** поле абстракт (не доступно для поиска)

**PT-** Тип публикации (журнальная, обзор, клинические испытания, а всего их 50)  
review[pt].



# Обращения в определенные поля поиска

МН- Медицинские предметные рубрики (слова за которыми закреплен статус понятий).

Каждому понятию соответствует только один термин – остальные синонимы лишь ссылаются на него. (Результат запроса `cancer[mh]` более 2000000)

The screenshot shows the MeSH website interface. At the top, there are logos for NCBI and MeSH, along with the text 'A service of the National Library of Medicine and the National Institutes of Health'. Below this is a navigation bar with tabs for 'All Databases', 'PubMed', 'Nucleotide', 'Protein', 'Genome', 'Structure', 'OMIM', 'PMC', 'Journals', and 'Books'. A search bar contains 'MeSH' and a search button. On the left side, there is a sidebar with various links like 'About Entrez', 'Text Version', 'Entrez PubMed', 'PubMed Services', and 'Related Resources'. The main content area displays the entry for 'Neoplasms' (D001317). The entry includes a definition: 'New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.' It also lists 'Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965'. Below the definition, there is a section for 'Subheadings' which includes a list of terms with checkboxes: analysis, antagonists and inhibitors, blood, blood induced, chemistry, classification, complications, drug therapy, economics, education, embryology, ethnology, etiology, genetics, history, immunology. A yellow box highlights the 'Entry Terms' section, which lists: Neoplasm, Tumors, Tumor, Benign Neoplasms, Neoplasms, Benign, Benign Neoplasm, Neoplasm, Benign, Cancer, and Cancers. At the bottom, there is a 'See Also' section with links to related terms like Antibodies, Neoplasm; Antigens, Neoplasm; Antineoplastic Agents; Carcinogens; DNA, Neoplasm; Oncogenic Viruses; and Precancerous Conditions.

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## 1: Neoplasms

New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.  
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965

Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.

analysis  antagonists and inhibitors  blood  blood induced  chemistry  classification  complications  drug therapy  economics  education  embryology  ethnology  etiology  genetics  history  immunology

Entry Terms:

- Neoplasm
- Tumors
- Tumor
- Benign Neoplasms
- Neoplasms, Benign
- Benign Neoplasm
- Neoplasm, Benign
- Cancer
- Cancers

See Also:

- [Antibodies, Neoplasm](#)
- [Antigens, Neoplasm](#)
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## MeSH

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

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# Как выглядит окон Медицинские предметные рубрики при запросе **cancer**

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Results: 1 to 20 of 320 << First < Prev Page 1 of 16 Next > Last >>

- Neoplasms**  
1. New abnormal growth of tissue. Malignant **neoplasms** show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign **neoplasms**.  
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965
- [Early Detection of Cancer](#)  
2. Methods to identify and characterize **cancer** in the early stages of disease and predict tumor behavior.  
Year introduced: 2009
- [Cancer Care Facilities](#)  
3. Institutions specializing in the care of **cancer** patients.  
Year introduced: 1991(Aug 1977)
- [American Cancer Society](#)  
4. A voluntary organization concerned with the prevention and treatment of **cancer** through education and research.  
Year introduced: 1991(1975)
- [Chemotherapy, Cancer, Regional Perfusion](#)  
5. Neoplasm drug therapy involving an extracorporeal circuit with temporary exclusion of the tumor-bearing area from the general circulation during which high concentrations of the drug are perfused to the isolated part.  
Year introduced: 2006 (1963)

PubMed search builder

Add to search builder AND Search PubMed

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Search details "neoplasms"[MeSH Terms] OR cancer[Text Word] Search See more...

# Обращения в определенные поля поиска

МН- Медицинские предметные рубрики (слова за которыми закреплен статус понятий).

Каждому понятию соответствует только один термин – остальные синонимы лишь ссылаются на него. (Результат запроса cancer[mh] более 2000000)

The screenshot displays the MeSH (Medical Subject Headings) database interface. The search bar at the top shows the query 'cancer[mh]' and the results page displays the entry for 'Neoplasms'. The entry includes a definition, a year introduced, subheadings, and a list of entry terms. A yellow box highlights the 'Entry Terms' section, which lists various terms related to neoplasms, including 'Neoplasm', 'Tumors', 'Tumor', 'Benign Neoplasms', 'Neoplasms, Benign', 'Benign Neoplasm', 'Neoplasm, Benign', 'Cancer', and 'Cancers'.

NCBI MeSH A service of the National Library of Medicine and the National Institutes of Health

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Search MeSH for Go Clear

**1: Neoplasms** [Link](#)

New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.  
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965

Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.

analysis  antagonists and inhibitors  blood  blood induced  chemistry  classification  complications  drug therapy  economics  education  embryology  ethnology  etiology  genetics  history  immunology

Entry Terms:

- Neoplasm
- Tumors
- Tumor
- Benign Neoplasms
- Neoplasms, Benign
- Benign Neoplasm
- Neoplasm, Benign
- Cancer
- Cancers

See Also:

- [Antibodies, Neoplasm](#)
- [Antigens, Neoplasm](#)
- [Antineoplastic Agents](#)
- [Carcinogens](#)
- [DNA, Neoplasm](#)
- [Oncogenic Viruses](#)
- [Precancerous Conditions](#)

## Обращения в определенные поля поиска

**NM**-Имя вещества (ethanol[nm] более 60000 работ)

Название основных соединений которые применялись при исследованиях данной работы.

**RN**- для поиска работ с использованием соединений можно использовать Регистрационные номера этих веществ (ethanol[rn] более 60000 работ)  
(EC 1.11.1.6[rn] каталаза)

**PMID** – Уникальный идентификационный номер публикации в PubMed

19059242[pmid]

**1AU**- первый автор, обычно это автор выполнивший наибольшее количество исследований в данной работе

osipov a[1au] (69)

**LASTAU**- последний автор, обычно это автор – руководитель работы

osipov a[lastau] (49)

# Как пишутся поисковые термины

(т.е. слова по которым проводится поиск)

**Правило 1:** Почти у всех слов может быть разное окончание (следует использовать астерик «звездочку» вместо окончания) (hypertension)

**Правило 2:** Фраза – если Вы задали в поиск словосочетание или определительную фразу, то обязательно использовать кавычки

**Главная цель при использовании астерика – это выделить смысловой корень поискового термина**

**Правило 3:** Если Вы хотите задать сочетание поисковых терминов – Вы должны использовать:

а. Булевы операторы (AND OR NOT)

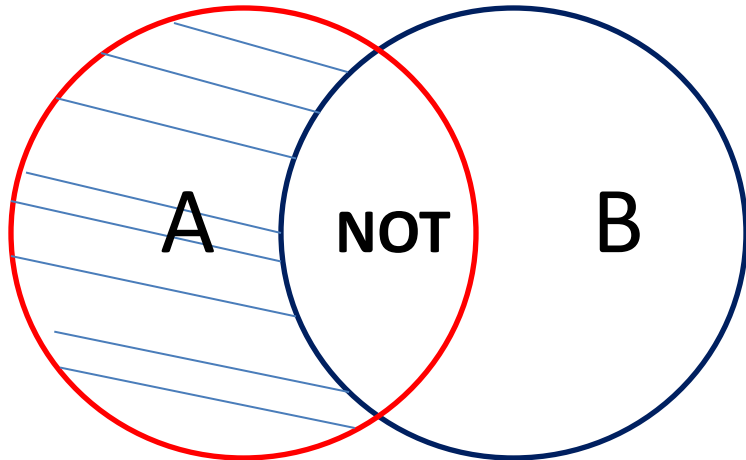
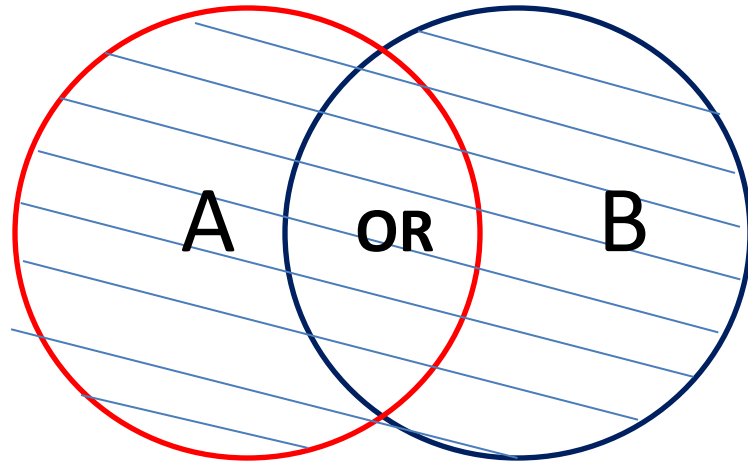
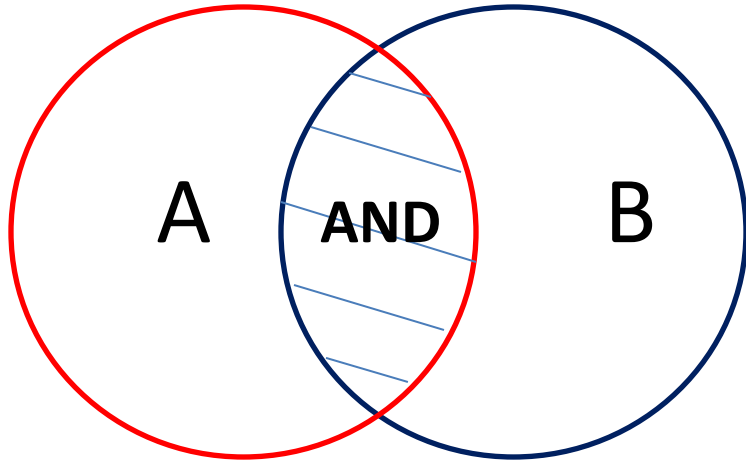
б. Круглые скобки (для выставления приоритетов выполнения логических операций)

$$2+2*2=6, \quad (2+2)*2=8$$

Возможные ошибки: Существует последовательность выполнения операторов (начало) [...] → AND → OR → NOT (окончание)

# Как пишутся поисковые термины

*(т.е. слова по которым проводится поиск)*





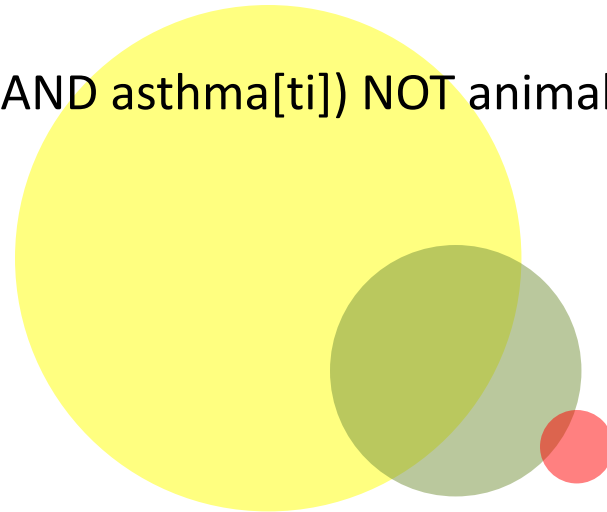
# Как пишутся поисковые термины (т.е. слова по которым проводится поиск)

## Токсическое действие аспирина на пациентов страдающих астмой за интервал времени с 2002 по 2009 год

aspirin toxicity poisoning asthma animals 2002:2009

aspirin[nm] AND toxicity OR poisoning AND asthma[ti] NOT animals[mh]  
AND 2002:2009[dp]

((aspirin[nm] AND (toxicity OR poisoning)) AND asthma[ti]) NOT animals[mh]  
AND 2002:2009[dp]



# Найдите работы

## ПОСВЯЩЕННЫЕ:

Когда Вы слышите + найдите публикации посвященные чему либо – это значит нужно обращать термин поиска в поле название (title)

1. Агрегация тромбоцитов
2. Ультразвуковая диагностика
3. Найдите работы с Вашей фамилией  
(не указывая инициалов)

#3 за последний год

#3 за последние 3 года

