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[www.aizhong365.net](http://www.aizhong365.net)

**embase**<sup>®</sup>  
BIOMEDICAL ANSWERS

# 生物医学与药理学信息检索平台

[www.embase.com](http://www.embase.com)

康晓伶  
爱思唯尔科技部



# 日程

- 平台介绍
- 主要功能及最新进展
- 2010年培训计划

# EMBASE

embase®  
BIOMEDICAL ANSWERS

由Elsevier公司出品

Excerpta Medica 荷兰《医学文摘》的在线版本

收录自1974年起的内容

涵盖70多个国家/地区出版的5000多种期刊

覆盖各种疾病和药物信息

无可匹敌的欧洲、亚洲文献汇总



Elsevier为同时检索EMBASE和MEDLINE提供的网络平台  
全球最大最权威的生物学及药理学文摘数据库

### EMBASE

- 1974年起
- 5,000多种期刊，其中包括近2,000种Medline以外的特有期刊
- 11 00万条记录
- 覆盖更多疾病和药物的信息
- 无可匹敌的欧洲、亚洲文献汇总

### MEDLINE

- 1950年起
- 2,000多种Embase以外的特有期刊
- 900万条MEDLINE特有记录
- 北美文献为主

**EMBASE+MEDLINE 强强联合，  
提供最全面的生物学及药理学信息**

Search Forms

- Quick Search
- Advanced Search
- Drug Search
- Disease Search
- Article Search

Search Results

- Session Results
- Clipboard
- Saved Clipboards
- Email Alerts
- Saved Searches

Resources

- Info Site
- Embase Forum

Quick Search

e.g. 'cancer gene therapy'

Extensive search (mapping, explosion, as keyword)

Search Publications from:

2006 to 2010 or  All Years

Search

Embase News

- » In-Process records are now available to ensure retrieval. [Read more about In-Process records](#)
- » Find out how indexed drug and disease records are updated with [your feedback](#).
- » **Please take a few moments to fill in our survey**
- » Share searching tips and other related information

- 来自70多个国家和地区的7000多种期刊
- 2,000多万条EMBASE和MEDLINE记录(无重复)
- 强大的疾病检索和药物检索
- 独有的EMTREE主题词表，覆盖所有MeSH术语
- 每日添加2000多条新记录
- 提供全文链接

# EMTREE生命科学辞典

对生物医学文献进行主题分析、标引和检索时使用的权威性词表

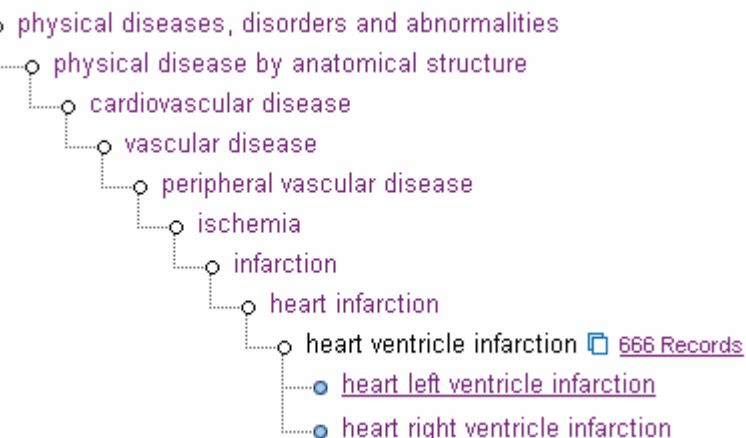
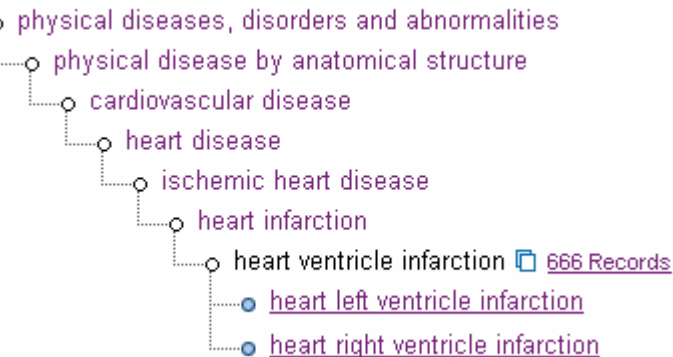
收录超过**5.6万**条优选术语，同义词超过**23万**，多级树状结构

在药物和药剂标引方面独具优势（优选术语**2.7万**条，同义词**14.4万**）

包含所有MeSH术语，在EMBASE和MEDLINE之间检索，可自动进行主题词对照检索

**78项**专题标引（**64项**药物相关；**14项**疾病相关）

## Entree



Find Term	Browse by Facet
<b>Find Term</b> myocardial infarction Type word or phrase (without quotes)	<b>转换为EMTREE 优选术语</b>
myocardial infarction use: <a href="#">heart infarction</a>	
ST elevated myocardial infarction use: <a href="#">ST segment elevation myocardial infarction</a>	
ST elevation myocardial infarction use: <a href="#">ST segment elevation myocardial infarction</a>	

深入的主题分析与标引，确保您能够快速、准确、全面地获取相关信息。

Find Term **Browse by Facet**

**Find Term**

acute heart infarction

Type word or phrase (without quotes)

Find Term

For term: **'acute heart infarction'**

Extend your search:  Explosion  As major focus

[Take this query to Disease Search](#) or [Add to Query Builder](#) ↗

[Emtree](#)

- physical diseases, disorders and abnormalities
  - physical disease by anatomical structure
    - cardiovascular disease
      - vascular disease
        - peripheral vascular disease
          - ischemia
            - infarction
              - heart infarction

**History**

This term was added to Emtree in 1974

**Synonyms**

acute cardiac infarction; acute myocardial infarction; heart infarction, acute

**Dorland's dictionary**

*acute myocardial infarction* = that occurring during the period when circulation to a region of the heart is obstructed and necrosis is occurring; it is usually characterized by severe pain, frequently associated with pallor, perspiration, nausea, dyspnea, and dizziness; electrographic abnormalities may include Q wave, ST segment, and T wave alterations.

Definition from *Dorland's Medical Dictionary*, 30th edition, copyright © 2003 by Elsevier. For more information please go to [www.dorlands.com](http://www.dorlands.com)

跳转到检索

- 术语被加入到EMTREE的时间
- 同义词（包括MeSH术语、其他可选的疾病和药物名称以及实验室代码等）
- 术语在道兰氏辞典中的定义（如果有的话）



# 主要功能及最新进展

导航条

Home Search Entree Journals Authors

检索模式  
选择

## Search Forms

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Advanced Search  
Drug Search  
Disease Search  
Article Search

检索结果  
管理

## Search Results

Session Results  
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Email Alerts  
Saved Searches

## Resources

Info Site  
Embbase Forum

## Quick Search

e.g. 'cancer gene therapy'

Extensive search (mapping, explosion, as keyword)

### Search Publications from:

2006 to 2010 or  All Years

## Embbase News

» In-Process records are now available in Embase. These records will be available in the future to ensure retrieval. [Read more about In-Process records and other developments](#)

» Find out how indexed drug and disease relationships may enhance your research with [your feedback](#).

» Please take a few moments to [fill in our customer survey](#).



# 主要功能及最新进展

Home Search **Emtree** Journals Authors

**Search Forms**

- Quick Search
- Advanced Search**
- Drug Search
- Disease Search
- Article Search

**Search Results**

- Session Results
- Clipboard
- Saved Clipboards
- Email Alerts
- Saved Searches

**Search Tips**

- What's new in Embase?
- Articles in Press: not all have a publication year, limiting to a year range will suppress these articles.
- Use quotes to specify phrases to be mapped to preferred terms.
- If you map to preferred terms without using quotes, each word is

**Advanced Search**

e.g. 'cancer gene therapy'/exp OR ((treatment OR therapy) NEAR/5 fluorouracil):ab

- Map to preferred terminology (with spell check)
- Also search as free text
- Include sub-terms/derivatives (explosion search)
- Search terms must be of major focus in articles found
- Search also for synonyms, explosion on preferred terminology

**Search Publications from:**

2006 to 2010 or  All Years

**Records from:**

- Embase  Embase Classic  MEDLINE

**Quick Limits:**

- Humans  With abstract  Priority journals  Only in English  Article in Press  In Process
- Animals  With molecular sequence number  With clinical trial number
- Records added from [ ] to [ ]  
(dd/mm/yyyy) (dd/mm/yyyy)

**Advanced Limits:** [+ expand all](#) [- collapse all](#)

- 术语对照检索：自动匹配到优选术语（拼写检查）
- 关键词检索
- 扩展检索：即包括被检索词及其所有下位词的检索
- 仅检索以关键字为重点内容的文章
- 同义词检索

其他限制选项：如语言、是否带有摘要，是否带有分子序列号、人类与动物研究类型等，可检索特定时间段增加的记录

# 主要功能及最新进展

## Quick Limits:

- Humans    With abstract    Priority journals    Only in English    Article in Press    In Process  
 Animals    With molecular sequence number    With clinical trial number  
 Records added from  (dd/mm/yyyy) to  (dd/mm/yyyy)

## Advanced Limits:

高级限定，精确描述检索需求

[+ expand all](#) [- collapse all](#)

## Evidence Based Medicine:

[clear selection](#)

- |  |  |
|--|--|
| <input type="checkbox"/> Cochrane Review           | <input type="checkbox"/> Randomized Controlled Trial |
| <input type="checkbox"/> Controlled Clinical Trial | <input type="checkbox"/> Systematic Review           |
| <input type="checkbox"/> Meta Analysis             |  |

## Publication Types:

Limits selected: none

## Areas of Focus:

[clear selection](#)

- |  |   |
|--|---|
| <input type="checkbox"/> Anatomy and Development     | <input type="checkbox"/> Ophthalmology                  |
| <input type="checkbox"/> Biochemistry                | <input type="checkbox"/> Otorhinolaryngology            |
| <input type="checkbox"/> Cancer                      | <input type="checkbox"/> Pathology and Forensic Science |
| <input type="checkbox"/> Dermatology and Venereology | <input type="checkbox"/> Pediatrics                     |
| <input type="checkbox"/> Genetics                    | <input type="checkbox"/> Pharmacology and Pharmacy      |
| <input type="checkbox"/> Gerontology and Geriatrics  | <input type="checkbox"/> Physiology and Endocrinology   |
| <input type="checkbox"/> Internal Medicine           | <input type="checkbox"/> Public Health                  |
| <input type="checkbox"/> Immunology and Hematology   | <input type="checkbox"/> Radiology and Nuclear Medicine |
| <input type="checkbox"/> Medical Instrumentation     | <input type="checkbox"/> Rehabilitation                 |
| <input type="checkbox"/> Microbiology                | <input type="checkbox"/> Surgery                        |
| <input type="checkbox"/> Neurology and Psychiatry    | <input type="checkbox"/> Toxicology and Drug Dependence |
| <input type="checkbox"/> Obstetrics and Gynecology   |   |

# 主要功能及最新进展

embase®  
BIOMEDICAL ANSWERS

Log in | Register

Home Search Emtree Journals Authors Help

### Search Forms

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- Embase Forum

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e.g. 'cancer gene therapy'

Extensive search (mapping, explosion, as keyword)

Search Publications from: 2006 to 2010 or  All Years

术语对照检索 / 扩展检索 / 关键词检索

### Embase News

- » In-Process records are now available in Embase. These records will improve currency and have been enriched with Emtree index terms to ensure retrieval. [Read more about In-Process records and other developments in Embase here](#).
- » Find out how indexed drug and disease relationships may enhance your workflow by [viewing our information video](#). Please contact us with [your feedback](#).
- » Please take a few moments to [fill in our customer survey](#).
- » Share searching tips and other related information by signing up for the [Embase forum](#).

# 主要功能及最新进展

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Saved Searches

## Search Tips

- What's new in Embase?

## Drug Search

### Drug Name:

e.g. 'low molecular weight heparin'

- Map to preferred terminology ( )
- Also search as free text
- Include sub-terms/derivatives ( )
- Search terms must be of major

- 提供药物专题检索：  
如药物副作用反应、临床试用、药物分析等
- 提供用药方式的检索：  
包括口服、肌肉注射、静脉注射等

### Drug Subheadings:

None  
Adverse drug reaction  
Clinical trial  
Drug administration

Or  And

### Routes of Drug Administration:

None  
Buccal drug administration  
Epidural drug administration  
Inhalational drug administration

Or  And

Hold down the Shift, Ctrl, or "Apple" key to select or deselect multiple items

# 主要功能及最新进展

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## Search Results

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## Search Tips

- What's new in Embase?

## Disease Search

### Disease Name:

e.g. 'acute myeloblastic leukaemia'

- Map to preferred terminology (with spell check)
- Also search as free text
- Include sub-terms/derivatives (explosion search)
- Search terms must be of major focus in articles found

### Disease Subheadings:

None  
Complication  
Congenital disorder  
Diagnosis

Or  And

Hold down the Shift, Ctrl, or "Apple" k

- 疾病专题检索，更精确地检索疾病的某一类或几类分支的相关文献，提高相关性，如：（疾病）恢复/（疾病）副作用/外科手术/（疾病）治疗等。  
例：查有关白内障手术的文献  
cataract surgery

# 主要功能及最新进展

## 检索结果页面

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- Saved Searches

### Search Tips

- What's new in Embase?
- Many Full text links require either a subscription or pay-per-view fee for access.
- To repeat your search on the web, use the Scirus link at the bottom of the page.

### Session Results

Save | Delete | Print | Email | Export    Combine using  And  Or    Basic | Advanced    Change View

Search Query	Results	Actions	Alerts
#1 'cancer gene therapy'/exp OR 'cancer gene therapy'	4,247	<a href="#">View</a>   <a href="#">Edit</a>	<a href="#">Email</a> <a href="#">RSS</a>

Save | Delete | Print | Email | Export    Change View

### 4,247 Search Results

Search Details - [Open](#)

[View](#) | [Print](#) | [Export](#) | [Email](#) | [Order](#) | [Add to Clipboard](#) | [Refine](#)    1-25 [next](#) ▶

Sort by:  Relevance  Publication Year  Entry Date    Selected:  0 (clear), or select first:  100  500  4247

- [HSV-tk expressing mesenchymal stem cells exert bystander effect on human glioblastoma cells](#)  
Matuskova M., Hlubinova K., Pastorakova A., Hunakova L., Altanerova V., Altaner C., Kucerova L.  
**Cancer Letters** 2010 **290:1** (58-67)  
Embase [Preview Abstract](#) [Preview Index Terms](#) [View Full Text](#) ⇨
- [Combined radionuclide-chemotherapy and in vivo imaging of hepatocellular carcinoma cells after transfection of a triple-gene construct, NIS, HSV1-sr39tk, and EGFP](#)  
Lee Y.L., Lee Y.J., Ahn S.J., Choi T.H., Moon B.S., Cheon G.J., Lee S.-W., Ahn B.-C., Ha J.-H., Lee J.  
**Cancer Letters** 2010 **290:1** (129-138)  
Embase [Preview Abstract](#) [Preview Index Terms](#) [View Full Text](#) ⇨
- [DNA/polyethyleneimine/hyaluronic acid small complex particles and tumor suppression in mice](#)  
Ito T., Yoshihara C., Hamada K., Koyama Y.  
**Biomaterials** 2010 **31:10** (2912-2918)  
Embase [Preview Abstract](#) [Preview Index Terms](#) [View Full Text](#) ⇨

# 主要功能及最新进展

4,247 Search Results

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[View](#) | [Print](#) | [Export](#) | [Email](#) | [Order](#) | [Add to Clipboard](#) | [Refine](#)

1-25 [next](#) ▶

Sort by:  Relevance  Publication Year  Entry Date

Selected:  0 ([clear](#)), or select first:  100  500  4247

1 [HSV-tk expressing mesenchymal stem cells exert bystander effect on human glioblastoma cells](#)  
Matuskova M., Hlubinova K., Pastorakova A., Hunakova L., Altanerova V., Altaner C., Kucerova L.

**Cancer L**

Embase

2 [Combined](#)  
[construct](#)  
Lee Y.L.,  
**Cancer L**

Embase

3 [DNA/poly](#)  
Ito T., Yoe  
**Biomater**

Embase

4 [Reduction](#)  
[mesenchy](#)  
Dembinski  
(In Process)

Embase

5 [Isolation](#)  
Ho I.A.W.  
**Peptides**

Embase

6 [Enhanced](#)

Embase

**Refine** BETA ✕

- Journal Title
  - Cancer Gene Therapy (1,171)
  - Cancer gene therapy (269)
  - Gene Therapy (163)
  - Molecular Therapy (122)
  - Human Gene Therapy (114)
  - [more](#)
- Publication Type
  - Article (3,056)
  - Review (861)
  - Conference Paper (106)
  - Editorial (49)
  - Short Survey (49)
  - [more](#)
- Publication Year
  - 2010 (143)
  - 2009 (595)
  - 2008 (551)
  - 2007 (547)
  - 2006 (289)
  - [more](#)

[send feedback](#)

[Cancel](#)

[Refine](#)

[infection of a triple-gene](#)

J.

[viruses transported in](#)

[kinness in tumor](#)

# 主要功能及最新进展

4,247 Search Results

Search Details - [Open](#)

[View](#) | [Print](#) | [Export](#) | [Email](#) | [Order](#) | [Add to Clipboard](#) | [Refine](#)

1-25 [next](#) ▶

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- 1 [HSV-tk expressing mesenchymal stem cells exert bystander effect on human glioblastoma cells](#)  
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*Cancer Letters* 2010 **290**:1 (58-67)

Embase [Preview Abstract](#) [Preview Index Terms](#) [View Full Text](#) ⇨

## Drug Terms

[ganciclovir](#) [thymidine kinase](#)

## thymidine kinase

### Key Subheadings

drug therapy **glioblastoma**

### Other Subheadings

intravenous drug administration, pharmacology

gene delivery system [herpes simplex virus](#), human [mesenchymal stem cell](#), mouse, nonhuman, priority journal, protein expression

相关专题标引

粗体: major focus

超链接: 查看相关专题标引  
在EMTREE中查看该主题词



记录页面1

Session Results / Record 1 of 4,247

Full record

Add All to Clipboard

Print

Record 1

[Related Articles](#) | [Add to Clipboard](#) | [Email Record](#)

[Back to results](#) [Next](#)

## HSV-tk expressing mesenchymal stem cells exert bystander effect on human glioblastoma cells

[Matuskova M.](#), [Hlubinova K.](#), [Pastorakova A.](#), [Hunakova L.](#), [Altanerova V.](#), [Altaner C.](#) and [Kucerova L.](#)

**Cancer Letters** 2010 **290:1** (58-67)

Go to publisher for the [full text](#)

Previously we have reported adipose-tissue derived human mesenchymal stem cells (AT-MSC) as cellular delivery vehicles for tumor-targeted **cancer gene therapy**. In this report we aimed to determine whether Herpes simplex virus - thymidine kinase (HSV-tk) expressing AT-MSC (TK-MSC) could exert cytotoxic effect on tumor cells upon treatment with prodrug ganciclovir (GCV). Direct co-cultures of human glioblastoma cells 8-MG-BA, 42-MG-BA and U-118 MG with TK-MSC/GCV resulted in substantial viability decrease in vitro. This therapeutic paradigm was most efficient against 8-MG-BA glioblastoma cells exhibiting cytotoxicity (>50%) in the presence of TK-MSC and 0.1  $\mu$ M GCV. Rapid apoptosis induction in three glioblastoma cell lines and TK-MSC demonstrated both bystander cytotoxic effect on tumor cells and GCV conversion-mediated suicide effect on TK-MSC. Furthermore, we were able to demonstrate formation of gap junctions between AT-MSC and human glioblastoma cells as a mechanism contributing to bystander cytotoxicity. Inability of human HeLa and MCF7 to form gap junctions with AT-MSC rendered these cell refractory to the TK-MSC/GCV mediated cytotoxicity. Gap junction intercellular communication (GJIC) capability of AT-MSC with tumor cells further supports the exploitation of mesenchymal stem cells for approaches relying on the bystander effect. Biological consequences of these capabilities remain to be further explored. © 2009 Elsevier Ireland Ltd. All rights reserved.

Drug Terms

[open all drug terms<sup>®</sup>](#)

# 主要功能及最新进展

Drug Terms  
[close all drug terms](#)

记录页面 2

[ganciclovir](#), [thymidine kinase](#)

## ganciclovir

Other Subheadings

**intraperitoneal drug administration**

## thymidine kinase

Key Subheadings

**drug therapy**    glioblastoma

Other Subheadings

**intravenous drug administration, pharmacology**

Disease Terms  
[open all disease terms](#)

[cancer cell](#), [drug cytotoxicity](#), [glioblastoma](#), [tumor cell](#)

Other Terms

[animal experiment](#), [animal model](#), [apoptosis](#), [article](#), [bystander effect](#), [cancer gene therapy](#), [cell activity](#), [cell communication](#), [cell viability](#), [coculture](#), [controlled study](#), [drug effect](#), [drug mechanism](#), [gap junction](#)

## 检索实例：药物与疾病联合检索

服用药物Vioxx可能导致心脏病（Heart attack），检索相关研究成果。

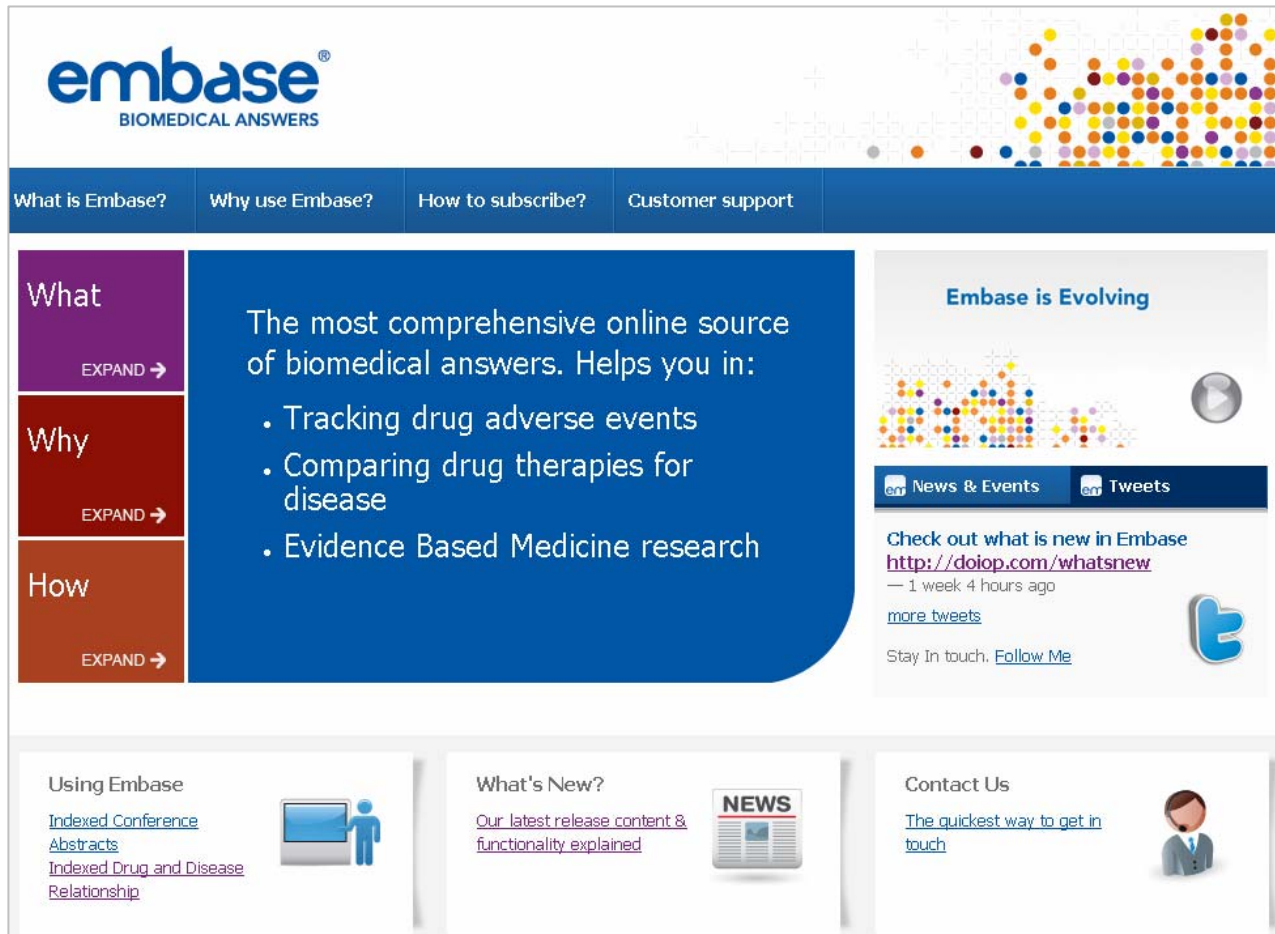
- Step 1: 进行药物检索
- Step 2: 进行疾病检索
- Step 3: 合并以上两次检索
- Step 4: 查看相关文摘及全文
- Step 5: 检索保存及文献管理

# 总结

- 覆盖范围广– EMBASE与MEDLINE强强联合，覆盖更多的国家/地区，更多的期刊，且没有重复记录；
- 药学和药理学方面独特的收录范围；
- 所有的MeSH术语都包含在EMTREE辞典，用MeSH术语也能轻松找到EMBASE的记录；
- 及时性– 每日更新；
- 便捷的全文链接；
- 简单强大的检索平台！

更详细的培训请关注：

<http://china.elsevier.com/onlinetraining>



The screenshot shows the embase website homepage. At the top left is the embase logo with the tagline 'BIOMEDICAL ANSWERS'. To the right is a decorative graphic of colorful dots. Below the logo is a navigation bar with four items: 'What is Embase?', 'Why use Embase?', 'How to subscribe?', and 'Customer support'. The main content area features a large blue box with the text 'The most comprehensive online source of biomedical answers. Helps you in:' followed by a bulleted list: 'Tracking drug adverse events', 'Comparing drug therapies for disease', and 'Evidence Based Medicine research'. To the left of this box are three vertical buttons labeled 'What', 'Why', and 'How', each with an 'EXPAND →' link. To the right is a section titled 'Embase is Evolving' with a play button icon. Below this is a 'News & Events' and 'Tweets' section, featuring a tweet about 'Check out what is new in Embase' with a link to 'http://doiop.com/whatsnew' and a 'more tweets' link. At the bottom, there are three columns: 'Using Embase' with links to 'Indexed Conference Abstracts' and 'Indexed Drug and Disease Relationship'; 'What's New?' with a link to 'Our latest release content & functionality explained'; and 'Contact Us' with a link to 'The quickest way to get in touch'. Each column has a small icon representing its content.

embase®  
BIOMEDICAL ANSWERS

What is Embase? Why use Embase? How to subscribe? Customer support

What  
EXPAND →

Why  
EXPAND →

How  
EXPAND →

The most comprehensive online source of biomedical answers. Helps you in:

- Tracking drug adverse events
- Comparing drug therapies for disease
- Evidence Based Medicine research

Embase is Evolving

News & Events Tweets

Check out what is new in Embase  
<http://doiop.com/whatsnew>  
— 1 week 4 hours ago  
[more tweets](#)

Stay In touch. [Follow Me](#)

Using Embase  
[Indexed Conference Abstracts](#)  
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NEWS

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**Thank you!**

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[www.aizhong365.net](http://www.aizhong365.net)