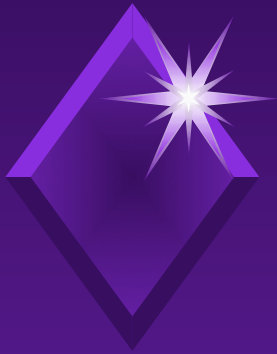




**MEDICINSKA
ZNANSTVENA
INFORMACIJA**



Postoje dvije vrste znanja; ili sami poznajemo predmet, ili znamo gdje ćemo se o njemu obavijestiti.

Samuel Johnson



PRIJENOS NOVIH MEDICINSKIH INFORMACIJA

- ◆ **Neformalni načini prijenosa informacija**
- ◆ **Formalni načini prijenosa informacija**



Neformalni načini prijenosa informacija

- ◆ Neposredne rasprave sa suradnicima u tijeku istraživanja
- ◆ Rasprave s kolegama iz drugih ustanova u tijeku neformalnih ili formalnih susreta na sastancima, konferencijama, kongresima
- ◆ Osobno dopisivanje



Neformalni načini prijenosa informacija

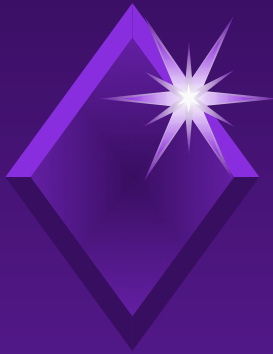
Neformalno upoznavanje s tijekom istraživanja ili s rezultatima

na razini vlastite ustanove ili izvan nje

Razmjena posebnih otisaka članaka

Prednost: znatno veća brzina prijenosa informacija, interaktivnost komunikacije (nota osobnosti)

Iznimno je važna uloga tehnologije: Osobna računala, globalne informacijske mreže, elektronička pošta (discussion groups)



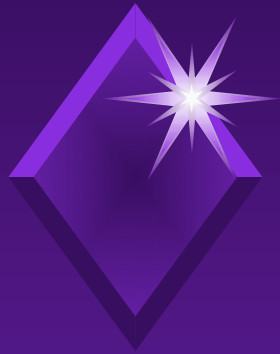
Prelazak informacije iz neformalnih u formalne prijenosne sustave

- Nova znanstvena informacija tek kad je priopćena postaje *znanstvena spoznaja*.
- Tada je javna, izložena prosudbi drugih znanstvenika.
- Time se promovira i zaštićuje *intelektualno vlasništvo* (pravo prvenstva, priznanje izvornosti) i dopušta se javna uporaba nove informacije.



Prelazak informacije iz neformalnih u formalne prijenosne sustave

- Objavljivanje rezultata znanstvenog rada (najčešće u znanstvenom časopisu) najvažnija je faza u procesu prenošenja znanstvenih spoznaja.
- Recenzija (lat. recensere - pregledati)
Filter kojim se branimo od “slabe” znanosti
Recenzijski postupak stručna je prosudba materijala podnjetog za objavljivanje u časopisu u kojoj sudjeluju urednici časopisa i specijalizirani stručnjaci.



Formalni načini prijenosa informacija

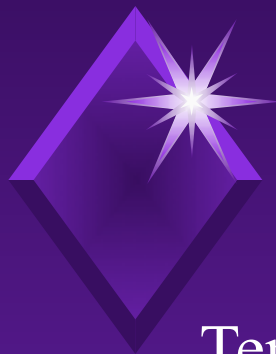
- Prevlast komunikacije u pisanom obliku (Gutenberg, 15. stoljeće)
- Ulogu knjige preuzeo *znanstveni časopis*
- Uz časopis (članke) - *sekundarne publikacije* (pomagalo u bibliografskoj kontroli i pretraživanju informacija)
- Distribucijski kanal publikacija u tiskanom obliku:
izdavač - knjižar - knjižnica
- Krajnji korisnik najčešće u knjižnici pronalazi izvorne dokumente



Formalni načini prijenosa informacija

Bez publiciranja, znanost je mrtva.

Gerard Piel



TISKANI I ELEKTRONIČKI INFORMACIJSKI PRIJENOSNICI

Temeljite promjene u načinima komunikacije posljednjih godina

Strojno čitljivi mediji, telekomunikacije - veliki napredak

Internet —→ On-line izdanja časopisa

Vrijeme izdavanja znatno kraće

Velike mogućnosti pohranjivanja

Gospodarski razlozi

Potrebna skuplja oprema i edukacija korisnika

Još uvijek vrlo je čest slučaj da imamo i klasični (tiskani) i strojno-čitljivi oblik.



OSNOVNA OBILJEŽJA MEDICINSKE LITERATURE

Kumulativnost

Objektivno znanstveno znanje kumulativne je naravi i svaki novi dodatak tome znanju njegova je preinaka, proširenje ili potpuno potiranje

Razlika od npr. humanističkih znanosti

Zastarijevanje

Medicinske informacije vrlo brzo zastarijevaju

Posebice u najpropulzivnijim disciplinama (molekularna biologija, imunologija, genetika, neuroznanost i sl.)

Gdje je rast informacija najveći - najbrže je zastarijevanje



OSNOVNA OBILJEŽJA MEDICINSKE LITERATURE

Grananje i specijalizacija

U medicini sve uže specijalnosti

Razvoj novih subdisciplina - potreba za novim glasilom

Internacionalnost

Medicinske znanosti su nadnacionalne

Ne poznaju političke, kulturne i ine zapreke

Postoje zapreke formalne naravi (jezične, bibliografske i sl.) koje se premošćuju međunarodno prihvaćenim standardima

(engleski jezik, standardni načini citiranja literature, itd.)

Javnost

Zabilježeno znanstveno znanje javno je i dostupno svima.

Posebno važno kod medicinskih informacija



USTROJSTVO MEDICINSKE LITERATURE

A. Primarne publikacije

Medicinski časopis

- **Prethodna priopćenja**
preliminary (short) communication; letter
- **Izvorni znanstveni radovi**
original article, original scientific paper
- **Pregledni radovi**
review article



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CURRENT ISSUE: September 27, 2007

[FULL TABLE OF CONTENTS](#) | [THIS WEEK IN THE JOURNAL](#) |  [AUDIO SUMMARY](#)

Perspective FORUM



The Code: Readers Respond

In a new interactive forum, we invite readers to respond to Dr. Katharine Treadway's Perspective article, which addresses physicians' ways of expressing and coping with their feelings about the profound events they encounter. How do you deal with the emotionally challenging aspects of clinical care?

Open for comments from September 26 to October 10

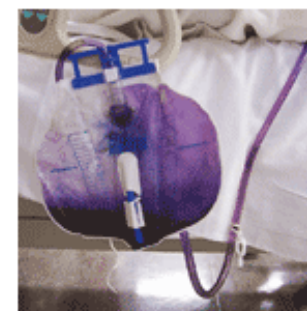
PERSPECTIVE



The Code

What happens when the code is unsuccessful? In this essay, Dr. Katharine Treadway writes that we don't talk easily about how hard it is to lose a patient, to confront death. We invite readers to respond to [The Code](#) in our new [Online Perspective Forum](#). ▶ [Free Full Text](#)

IMAGE OF THE WEEK



Purple Urine

This 76-year-old male nursing home resident was undergoing hemodialysis. The patient had no fever, urinary tract symptoms, or leukocytosis. The urinalysis showed a pH of 9.0.

▶ [Recent Featured Images](#)

IMAGE CHALLENGE



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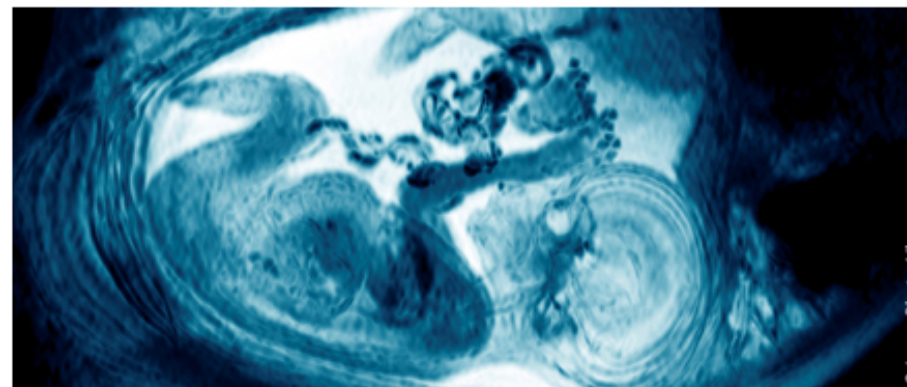
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thelancet.com today - Tuesday October 2 2007



Science Photo Library

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Professor Jiang Gu from Beijing University, China, discusses the H5N1 research article in this week's issue. The virus was found in human tissue other than the lungs after autopsy of two avian influenza cases in China. Also discussed is the lead editorial concerning the overuse of surrogate markers in clinical trials. >>

6 months
Free trial



[Support programme highly effective for establishing severely mentally ill in competitive employment](#)

The Individual Placement and Support (IPS) programme is twice as effective at finding

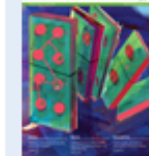
The Lancet Journals

THE LANCET

"Using limitations on the understanding, analysis and communication of drug safety issues are addressed, the manufacturers might simply become the agent in a series of preventable drug disasters."

[This Week's Issue](#)

THE LANCET *Neurology*



[The Lancet Neurology
October 2007](#)

THE LANCET *Infectious Diseases*



[The Lancet Infectious Diseases
October 2007](#)

THE LANCET *Oncology*



[The Lancet Oncology
October 2007](#)

blood

*Leading the world in reporting basic and applied
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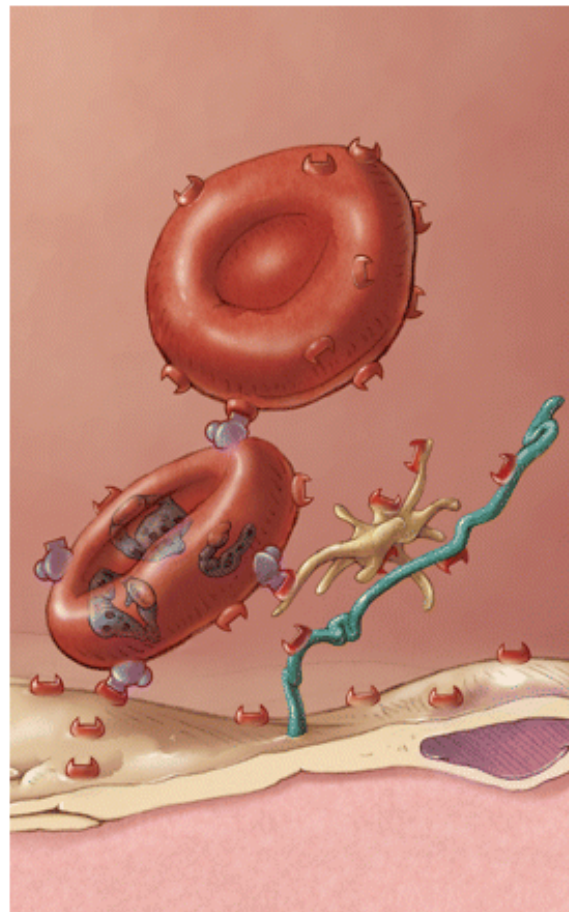
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CROATIAN MEDICAL JOURNAL

Founded in 1953 as Acta Facultatis Medicinae Zagabienensis; Journal of the World Association of Croatian Physicians (WACP)

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 is an international peer reviewed journal open to scientists from all fields of medicine and related research. We welcome all contributions that enhance or illuminate medical sciences. In addition to scientific articles, letters, news and comments of all kinds and forms are welcome if they serve the purpose of transfer of original and valuable information to our readers. CMJ is fully indexed in CC/CM, Index Medicus/MEDLINE, Biosis, Excerpta Medica and ExtraMED.

CURRENT ISSUE

April 2002 (Volume 43, Number 2)
[updated 03/09/2002]

UPCOMING MEDICAL MEETINGS

- [The 5th International Conference "Health Insurance in Transition" \[pdf\]](#)
- [International Symposium on Comparative Pathology \[pdf\]](#)
- [2002 Research Conference on Research Integrity \[pdf\]](#)
- [3rd European-American Intensive Course in Clinical and Forensic Genetics, Zagreb, Croatia, 2003.](#)

CMJ ACCESS STATISTIC


↔

CMJ POLLS


↔

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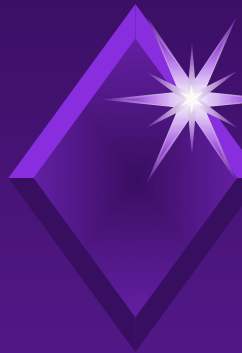


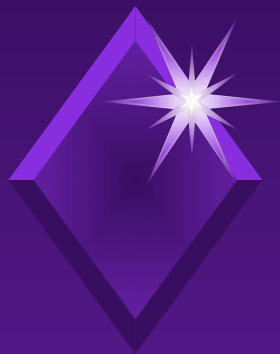
PLIVA med.net
stručni medicinski internet portal



30% POPUSTA
NA KNJIGE





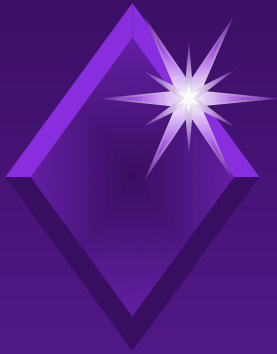


USTROJSTVO MEDICINSKE LITERATURE

A. Primarne publikacije

Ostale primarne publikacije:

- Kongresna literatura
- Doktorski radovi
- Standardi
- Patenti
- Statistička izvješća
- Monografije



USTROJSTVO MEDICINSKE LITERATURE

Ostale primarne publikacije:

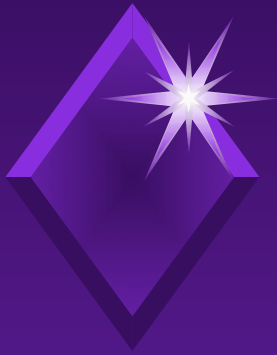
Doktorski radovi

Ima sve značajke izvornoga znanstvenog rada, pa spada u primarne publikacije

Standardi

Tehnički dokumenti koji određuju vrstu i oblik proizvoda, daju normative kakvoće, propisuju načine ispitivanja, pakiranja, čuvanja i sl.

Kao dokumenti koji sadrže propisane uvjete ili dokumenti s propisanim jedinicama tj. mjerama



USTROJSTVO MEDICINSKE LITERATURE

Ostale primarne publikacije:

Patenti

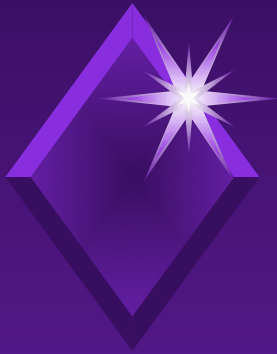
Kratak opis otkrića, način i oblik primjene, te bitne značajke

Statistička izvješća

Ako donose nove, do tada neobjavljene podatke spadaju u primarne publikacije

Monografije

U prirodnim znanostima knjige su malokad izvor novih znanstvenih informacija



Bez knjiga povijest ne bi bila imala glasa, književnost
bi bila nemušta, znanost sakata, a misao i mašta
umrtvljene.

Barbara W. Tuchman



USTROJSTVO MEDICINSKE LITERATURE

B. Indeksni jezici, klasifikacijski sustavi, tezaursi

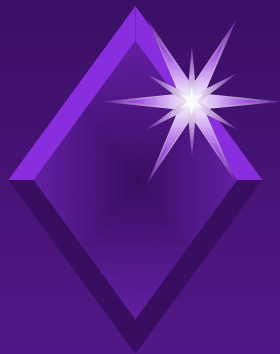
Stručno obrađene informacije koje prikazuju sve sadržajne aspekte dokumenta i osiguravaju pretraživost

Rabe se sustavi i načela ustrojstva knjižničnih kataloga, baza podataka, tiskanih bibliografija-jezici za indeksiranje i pretraživanje

Klasifikacijski sustavi

Za klasifikaciju medicinske literature - National Library of Medicine, NLM (SAD)

Sustavi za predmetno označavanje

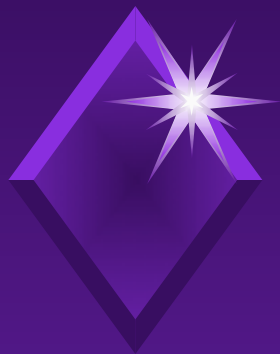


USTROJSTVO MEDICINSKE LITERATURE

C. Sekundarne publikacije

Publikacije koje sadrže preglede ili skraćene prikaze radova objavljenih u primarnim publikacijama, te pomažu pri njihovom pronalaženju

- 1. Priručnici**
- 2. Bibliografije**
- 3. Časopisi sažetaka**
- 4. Indeksne publikacije**
 - a) Index Medicus (IM)
 - b) Science Citation Index (SCI)
- 5. Presnimljena časopisna kazala**
Current Contents (CC)



USTROJSTVO MEDICINSKE LITERATURE

AD 1 Priručnici

Sadrže informacije o određenom znanstvenom području
ili temi;

npr. enciklopedije, rječnici

Opća enciklopedija, Medicinska enciklopedija

“Dorland’s Medical Dictionary”

“Tko je tko u hrvatskoj medicini?”



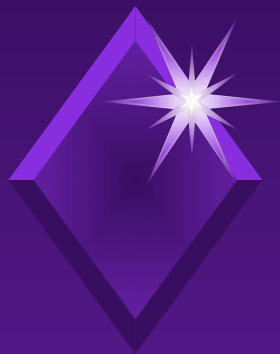
USTROJSTVO MEDICINSKE LITERATURE

AD 2 Bibliografije

**Podaci o autorima primarnih publikacija, naslovima,
vremenima nastajanja**

međunarodne - nacionalne

retrospektivne - tekuće



USTROJSTVO MEDICINSKE LITERATURE

AD 3. Časopisi sažetaka

Excerpta Medica, 42 zasebna dijela

Year Books



USTROJSTVO MEDICINSKE LITERATURE

4. Indeksne publikacije

Donose osnovne bibliografske podatke razrađenim sustavom kazala

a) Index Medicus (IM)

b) Science Citation Index (SCI)



USTROJSTVO MEDICINSKE LITERATURE

a) Index Medicus (IM)

Najpoznatija, najkorištenija i najbolja indeksna publikacija na području medicine

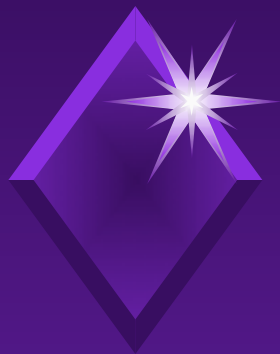
1879. prvi svezak, dr. John Shaw Billings, načelnik saniteta američke vojske

Od 1960. NLM ga izdaje mjesečno te godišnje kao Cumulated IM

Danas mjesečni IM izlazi u dva dijela, kao predmetno i autorsko kazalo

Dodatak siječanjskom broju: List of Journals Indexed in Index Medicus i njihovih skraćénica, te MeSH (Medical Subject Headings), popis odrednica

1995. 3093 naslova časopisa iz biomedicine



USTROJSTVO MEDICINSKE LITERATURE

b) Science Citation Index (SCI)

Multidisciplinarna indeksna publikacija

by the Institute for Scientific Information (SAD)

U tiskanom obliku izlazi dvomjesečno, te kao godišnja i petogodišnja kumulacija.

1994. 3383 periodične i serijske publikacije s područja prirodnih znanosti, medicine, poljoprivrede, tehnologije, bihejviorističkih znanosti

Organizirana je u tri povezana kazala:

Source Index

Permuterm Subject Index

Citation Index



USTROJSTVO MEDICINSKE LITERATURE

AD 5 Presnimljena časopisna kazala

Namijenjena što uspješnijem i bržem obavještanju o novoizašloj literaturi

Current Contents, niz od 7 sekcija publikacije izdaje Institute for Scientific Information

Za biomedicinu su važne CC/Life Sciences (1300 časopisa) i CC/Clinical Medicine (900)

Izlaze tjedno

Odlikuje ih visoka selektivnost

Dostupan je u tiskanoj verziji, izravno (on-line), na CD-ROM-u

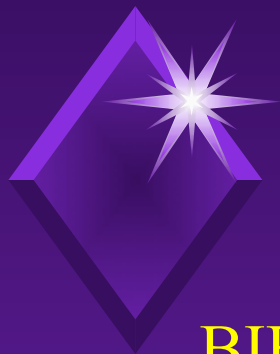


USTROJSTVO MEDICINSKE LITERATURE

D. Tercijarne publikacije

Publikacije koje su sastavljene od različitih kazala koja vode do primarnih i sekundarnih dokumenata

(Često se ubrajaju i u sekundarne publikacije)



USTROJSTVO MEDICINSKE LITERATURE

BIBLIOGRAFSKE BAZE PODATAKA

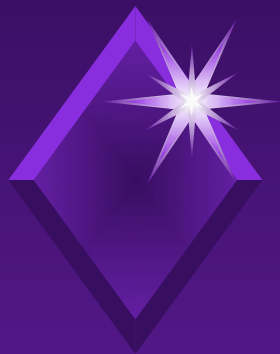
engl. database

Skupine podataka na strojno čitljivom mediju

Podaci faktografske ili bibliografske naravi, u obliku punog teksta ili samo kao bibliografske informacije

•Prema sadržaju:

- koje sadrže znanstvene informacije
 - po područjima
 - po problemu
 - po tipu informacije
- koje sadrže poslovne informacije



INFORMACIJSKE POTREBE I TRAŽENJE INFORMACIJA

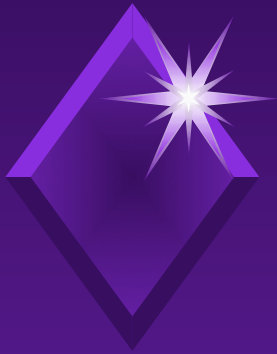
**BAVLJENJE MEDICINOM ZAHTIJEVA
OBAVIJEŠTENOST**

Znanstveni rad

Nastavni rad

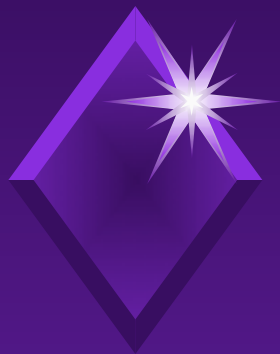
Pisanje rada

Rješavanje kliničkih problema



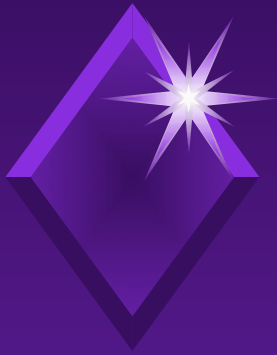
*Učiti fenomene bolesti bez knjige isto je
što i jedriti na nepoznatom moru.
Obrnuto, učiti knjige bez bolesnika znači
ne otići na more.*

(William Osler, 1849-1919.)



INFORMACIJSKE POTREBE I TRAŽENJE INFORMACIJA

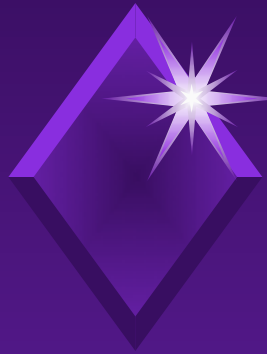
1. Temeljni udžbenik
2. Razgovor sa stručnjakom
3. Novi brojevi specijaliziranih časopisa
4. Knjižnični katalozi
5. Index Medicus
6. Medline



BOLESNIK

A lipo san vam govori da me boli!

(Natpis s nadgrobne ploče, Dalmacija)



Medicinske informacije dostupne na internetu

- ◆ Izvori bibliografskih podataka

- ❖ A) MEDLINE/PUBMED

- ❖ **Medline je najveća bibliografska baza Nacionalne medicinske knjižnice**

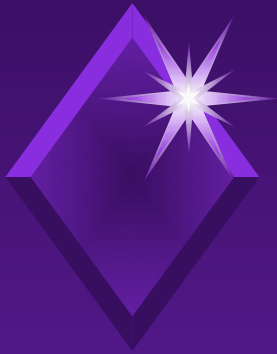
- uključuje više od 5000 časopisa s područja klinike, bazične medicine, stomatologije, sestriinstva, veterine i zdravstva iz cijelog svijeta (iz Hrvatske 9 časopisa)



❖ PubMed

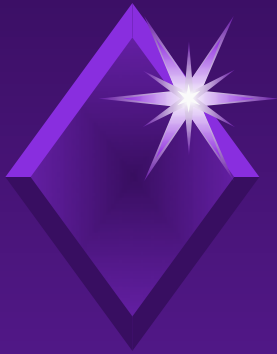
- od 1996. Medline je u mrežnom sustavu PubMed

-PubMed je dio sustava za pronalaženje informacija koje je pod imenom *Entrez* razvila NLM



◆ B) Embase

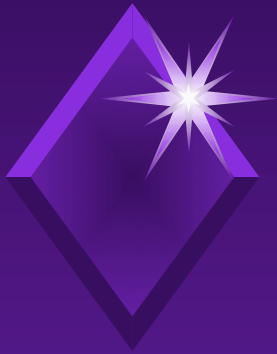
- bibliografska baza podataka Excerpta medica (EMBASE) sadržava bibliografske zapise o člancima objavljenim u više od 5000 odabranih časopisa
- pristup toj bazi se plaća
- usmjerenost na radove s područja farmakologije, toksikologije i farmacije



◆ C) Scopus

- je bibliografska baza podataka koja sadržava bibliografske zapise o objavljenoj znanstvenoj literaturi u časopisima i kongresnim zbornicima te na probranim mrežnim stranicama s različitih područja znanosti

- dostupan je hrvatskim ustanovama koje su u sustavu financiranja MZOŠ



- ◆ Web of Science (WoS)

- je bibliografska baza podataka za sva područja znanosti a koju čine *Science Citation Expanded*, *Social Science Citation Indeks*, *Arts and Humanities Citation Indeks* iz više od 9000 časopisa

- izvor je podataka za vrjednovanje i usporedbu znanstvenih časopisa prema tzv. čimbeniku utjecaja ili odjeka (engl impact factor)

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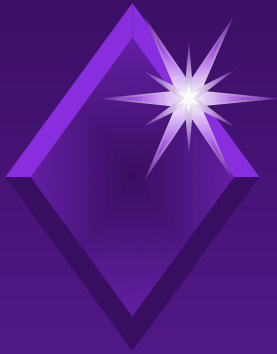
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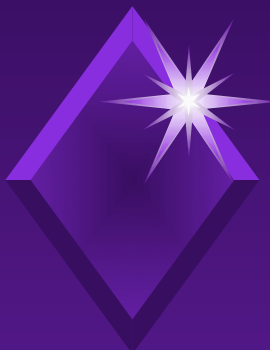


◆ E) Current Contents Connect

- omogućuje pristup sadržajima tekućih brojeva vodećih međunarodnih časopisa iz svih područja znanosti, odnosno bibliografskim podacima o radovima koje su ti časopisi objavili

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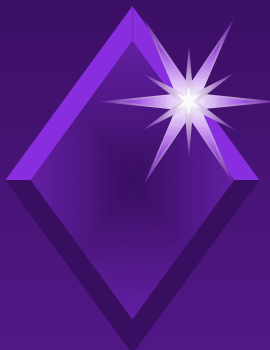
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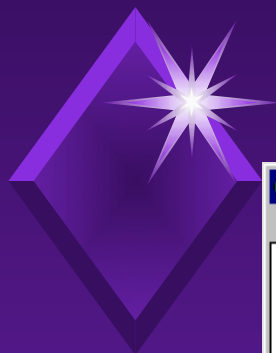
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Title
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KeyWords Plus
Gamma-aminobutyric-acid. Active lipid oleamide. H-3 muscimol binding. Gaba(a) receptors. Glycine receptors. A receptor. Cortical synaptoneurosomes. Cannabinoid receptors. General-anesthetics. Chloride channels.

Abstract

1 We examine the sensitivity of GABA(A) and glycine receptors (same ionotropic superfamily) to oleamide. We address subunit-dependence/modulatory mechanisms and analogies with depressant drugs.

2 Oleamide modulated human GABA(A) currents alpha(1)beta(2)gamma(2L) in oocytes (EC50, 28.94+/-s.e.mean of 1.4 muM; Maximum 216%+/-35 of control, n = 4). Modulation of human alpha1 glycine homo-oligomers (significant), was less marked, with a lower EC50 (P<0.05) than GABA receptors (EC50, 22.12+/-1.4 muM; Maximum 171%+/-30, n = 11).

3 Only the hypnogenic cis geometric isomer enhanced glycine currents (without altering slope or maximal current, it reduced the

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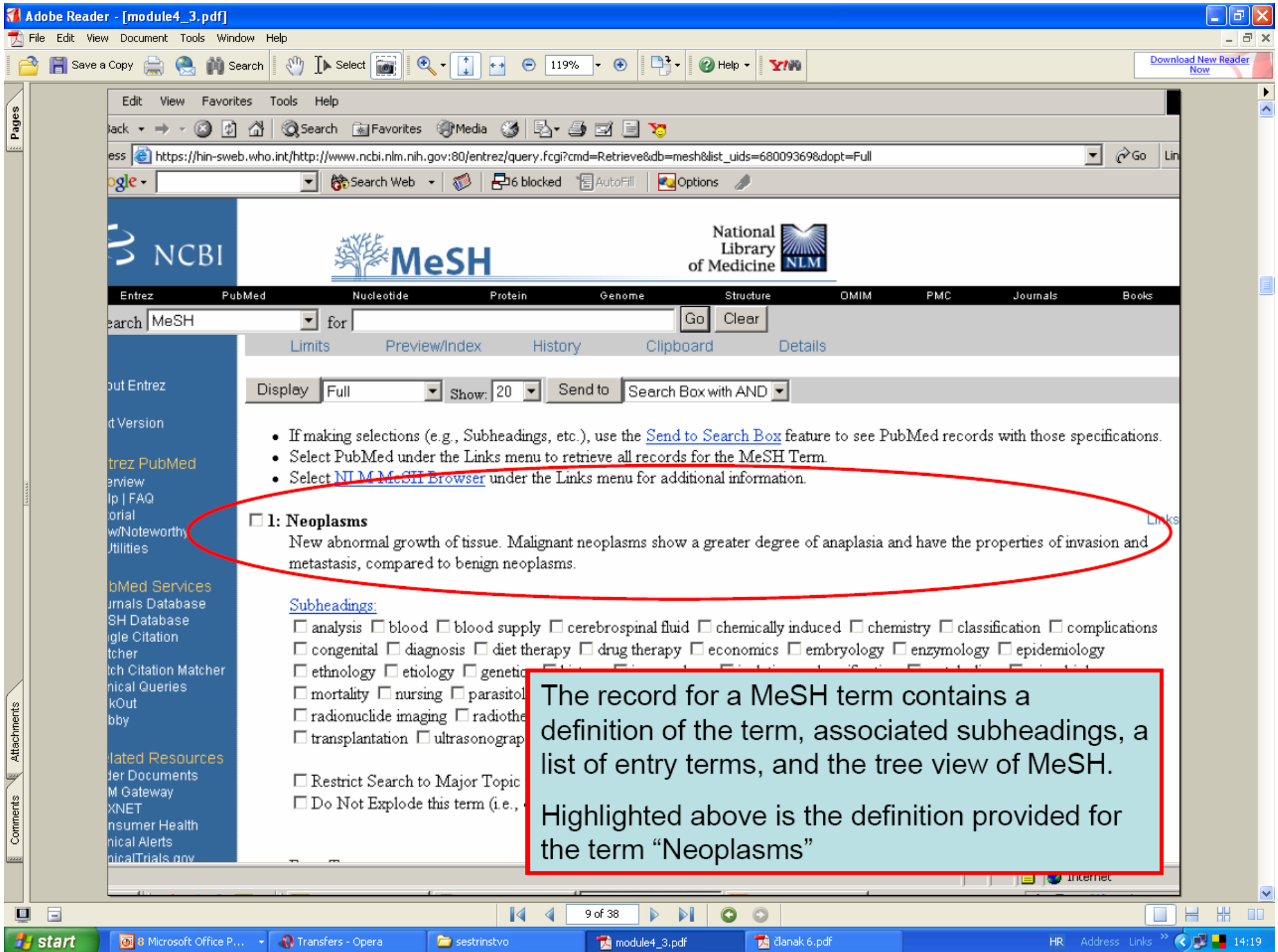
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- ethnology etiology genetic
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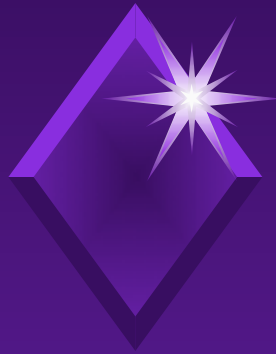
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- blood
- blood supply
- cerebrospinal fluid
- chemically induced
- chemistry
- classification
- complications
- congenital
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- enzymology
- epidemiology
- ethnology
- etiology
- genetics
- history
- immunology
- isolation and purification
- metabolism
- microbiology
- mortality
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- physiopathology
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- radiography
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