Basic Methods of Scientific Research

LITERATURE SEARCH

Introduction

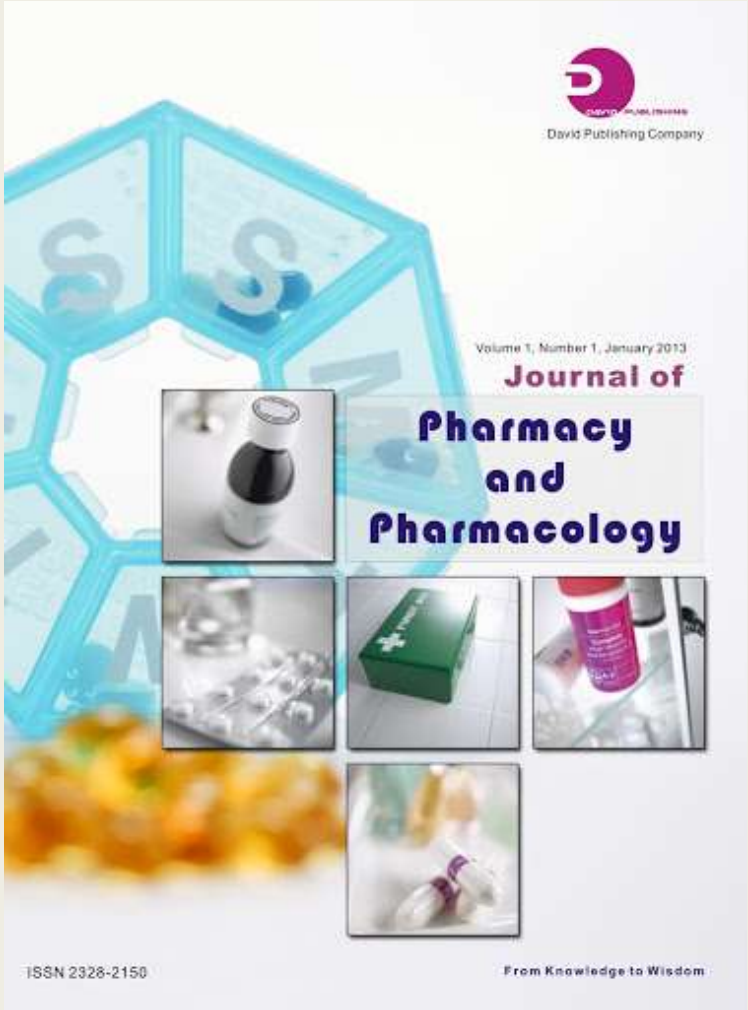
- ”There are **two kinds of knowledge**: either we have the necessary information, or we know where to find it.” (Samuel Johnson)

- Ca. **60 million pages** of literature sources are published per year:
  - *40-50 thousand scientific journals*
  - *200 thousand books*

TYPES OF PUBLICATIONS

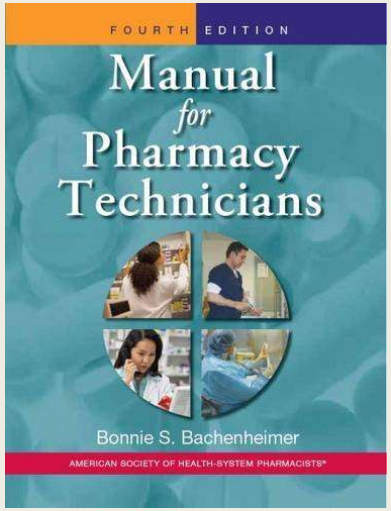
Types of publications 1. Journals

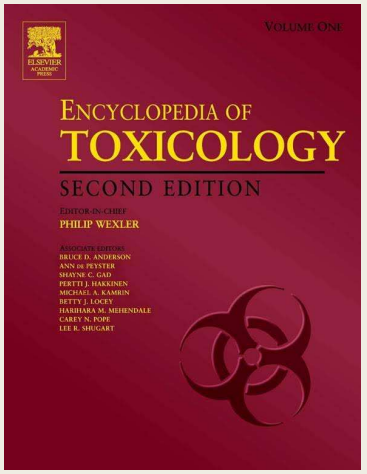
- Regularly (weekly, monthly, quarterly) up-to-date information
- Not publishing comprehensive results – research outcomes can be published already after finishing certain stages of a research project
- Each research field – specific journal for each field



Types of publications 2. Books

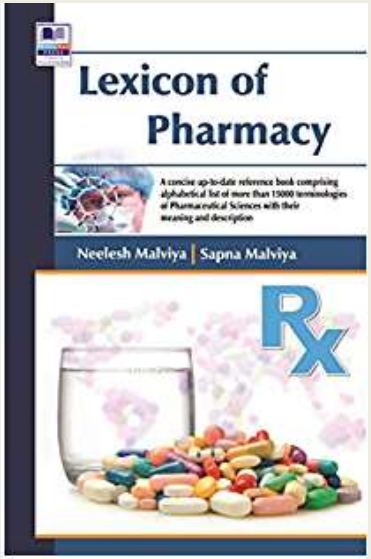
- **Monograph:** comprehensive summary of a single topic; reports new research results, too
- Textbook: educational purposes
- **Manual:** systematic review, summary of a field – based on scientific evidence
- Collection: a joint volume of works somehow related to each other
- **Encyclopedia:** systematic arrangement of knowledge in a given field, defining concepts together with their interrelations

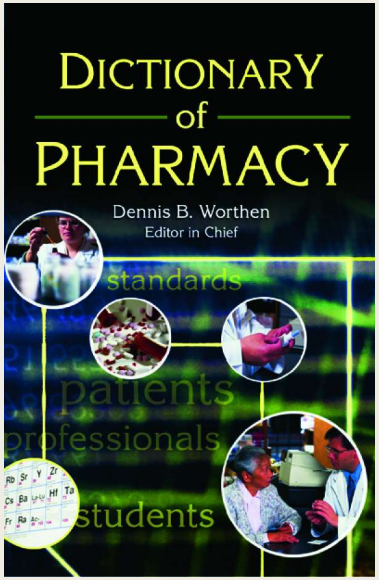




Types of publications 2. Books

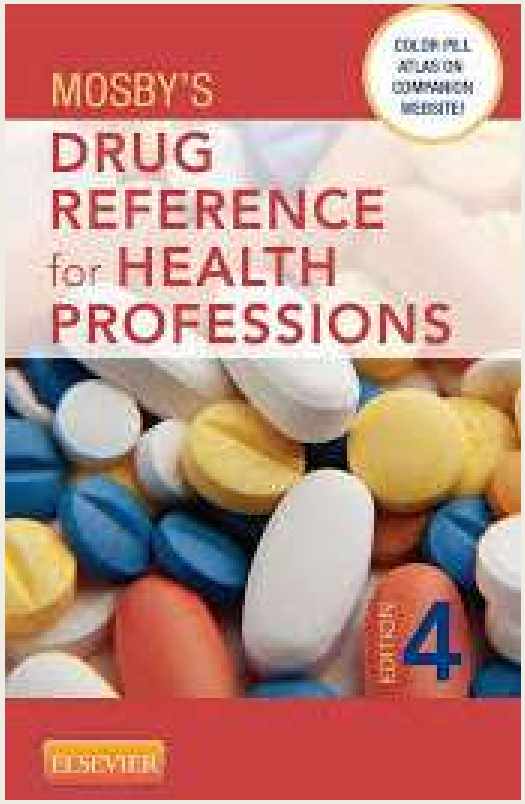
- **Lexicon:** alphabetic collection of short definitions of concepts
- **Dictionary:** alphabetic list of words, expressions in a given language or specific field:
  - *Explanations in the same language*
  - *Definitions in another language (bi- and multilingual dictionary)*
- **Annuals:** collections summarizing the new results of a scientific field yearly
  - *E.g. Annual Reviews of Biochemistry, Annals of Botany, Jahresberichte …*
- **Congress publications**
  - *often as a special issue of a journal*

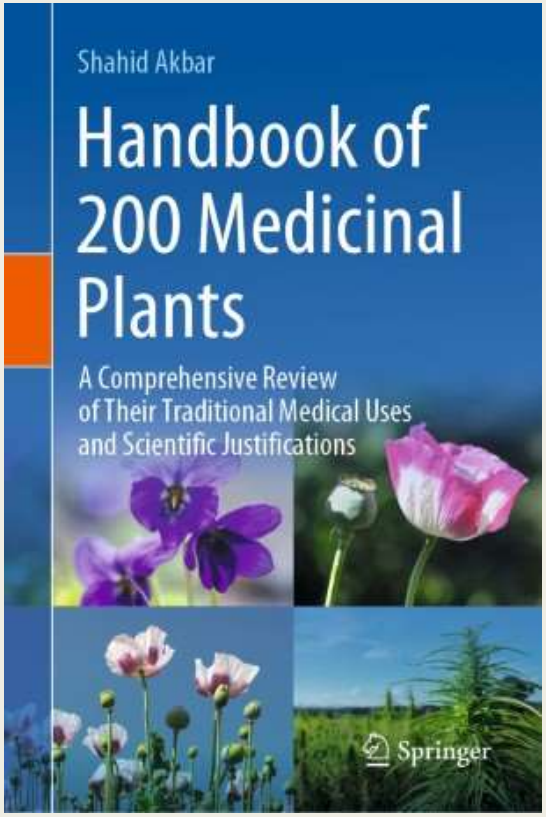




Types of publications 2. Books

- Well-known publishers – guarantee:
  - *Springer*
  - *Wiley*
  - *Academic Press*
  - *Elsevier*
  - *Birkhäuser Verlag*





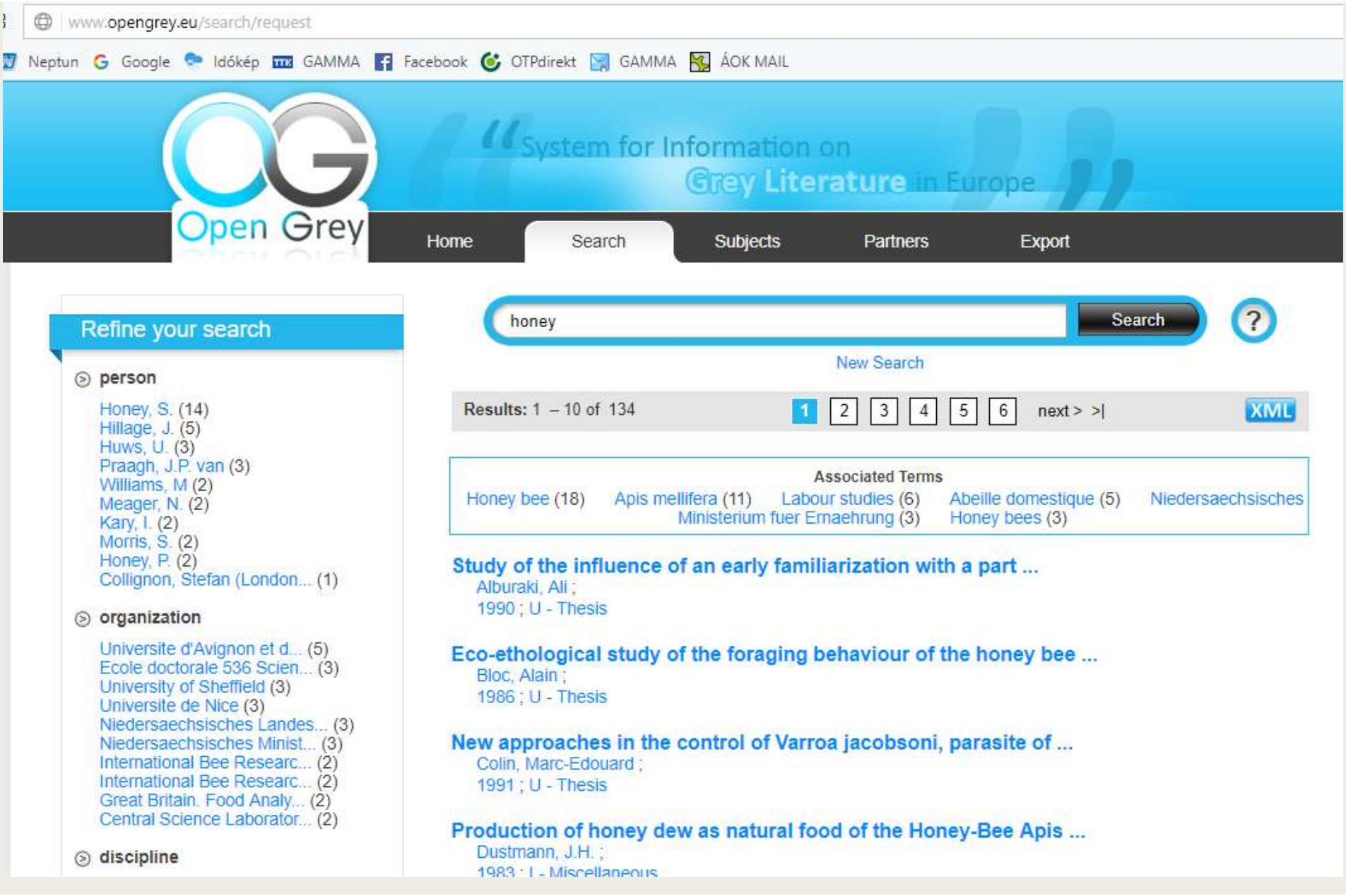
Types of publications 3. „Grey literature”

- Not marketed, not sold in bookstores:
  - *Research reports*
  - *Theses*
  - *Doctoral dissertations*

  - *Available in libraries*

  - *EU: SIGLE: System for Information on Grey Literature in Europe*
    www.opengrey.eu

  - *Google Scholar*


www.opengrey.eu/search/request
Neptun
Google
Időkép
GAMMA
Facebook
OTPdirekt
GAMMA
ÁOK MAIL
Open Grey
System for Information on Grey Literature in Europe
Home
Search
Subjects
Partners
Export
Refine your search
person
Honey, S. (14)
Hillage, J. (5)
Huws, U. (3)
Praagh, J.P. van (3)
Williams, M (2)
Meager, N. (2)
Kary, I. (2)
Morris, S. (2)
Honey, P. (2)
Collignon, Stefan (London... (1)
organization
Universite d'Avignon et d... (5)
Ecole doctorale 536 Scien... (3)
University of Sheffield (3)
Universite de Nice (3)
Niedersaechsisches Landes... (3)
Niedersaechsisches Minist... (3)
International Bee Researc... (2)
International Bee Researc... (2)
Great Britain. Food Analy... (2)
Central Science Laborator... (2)
discipline
honey
Search
New Search
Results: 1 – 10 of 134
1 2 3 4 5 6 next > >|
XML
Associated Terms
Honey bee (18)
Apis mellifera (11)
Labour studies (6)
Abeille domestique (5)
Niedersaechsisches Ministerium fuer Ernaehrung (3)
Honey bees (3)
Study of the influence of an early familiarization with a part ...
Alburaki, Ali ;
1990 ; U - Thesis
Eco-ethological study of the foraging behaviour of the honey bee ...
Bloc, Alain ;
1986 ; U - Thesis
New approaches in the control of Varroa jacobsoni, parasite of ...
Colin, Marc-Edouard ;
1991 ; U - Thesis
Production of honey dew as natural food of the Honey-Bee Apis ...
Dustmann, J.H. ;
1983 ; L - Miscellaneous

PROCESS OF LITERATURE SEARCH

Process of literature search
Where and how?

- **Library:** journals, books
- Orientation: **catalogues**, manuals, indexes
- **Our own system** about publications interesting for us:
  - *Author, title, place and time of publishing*
    - Paper-based
    - Computer database (easier to store and access)
      - *Can be used well when writing our own paper*

Process of literature search
Detailed, comprehensive literature search

- WHEN?
  - *Selecting a research topic*
  - *Writing a grant application (for funding of research)*
  - *Obtaining a scientific degree*
  - *Preparing for a university lecture*
- WHAT?
  - *monographs*
  - *Textbooks, encyclopedias, dictionaries*
  - *Review articles (Advances in…, Annual Reviews of…, Progress in…, Trends in ….)*
  - *Collection of specific terms → list (mother tongue, foreign language)*
  - *References of books, review papers → further research papers*

Process of literature search
Catalogues

- Printed catalogue
  - *alphabetical (author's name, book titles)*
  - *According to specific fields*
- online catalogue (OPAC: Online Public Access Catalogue)
  - *Can be accessed from a distance*
  - *Can be searched – according to multiple aspects:*
    - author
    - full title
    - a word in the title
    - key words

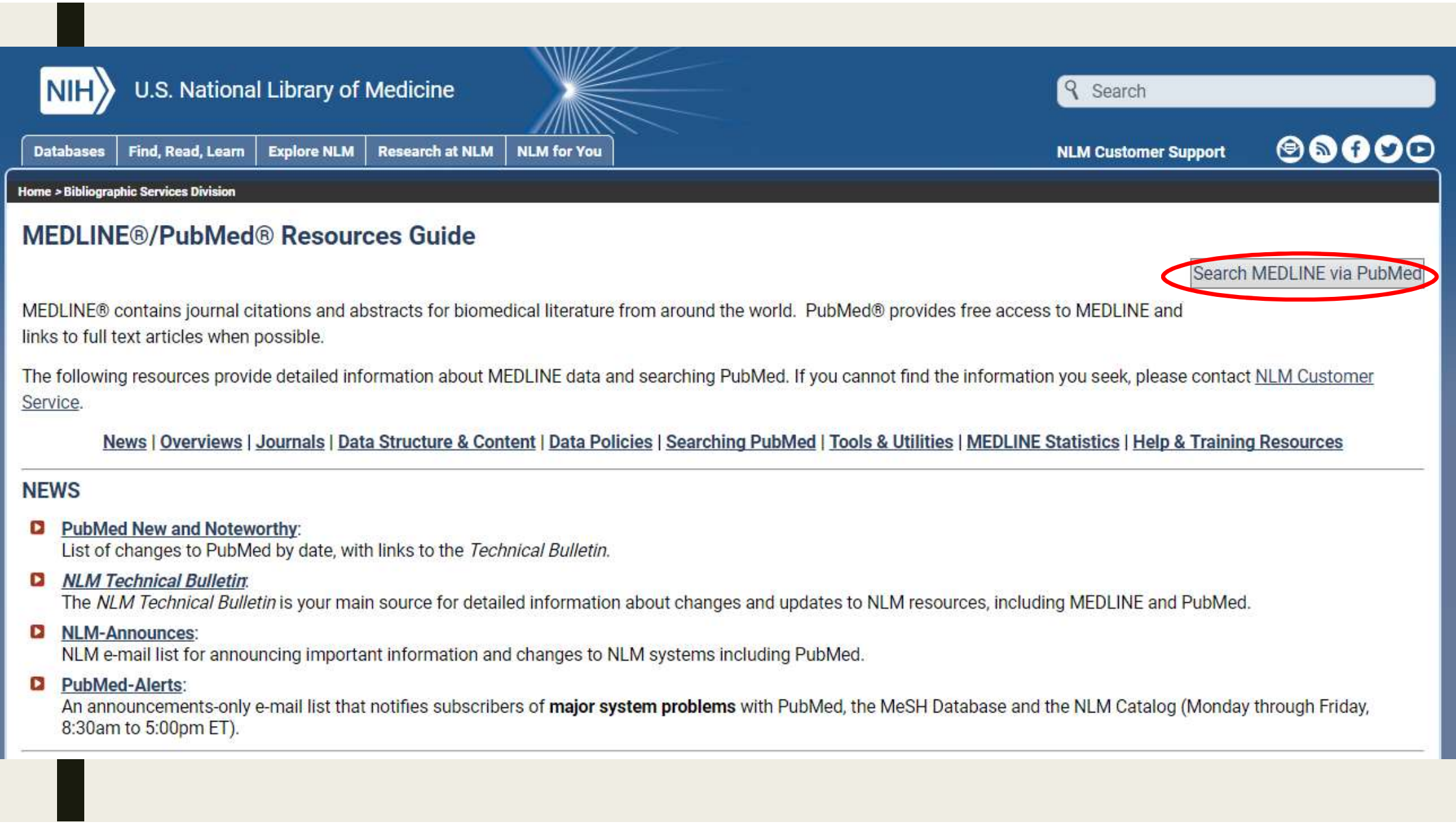
Process of literature search
Online bibliographical databases

- Databases: collection of records
- Each record is a journal paper, book, conference presentation
- **records:** basic data = **fields** (title, author, year of publication)
- Search for: words, expressions, names
- **Records** that meet search criteria – on screen, can be printed, saved

Process of literature search
Online bibliographical databases

- Analytical Abstracts
- Biological Abstracts
- Chemical Abstracts
- EMBASE (medicine)
- Medline

- Science Direct
- Scopus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MEDLINE® contains journal citations and abstracts for biomedical literature from around the world. PubMed® provides free access to MEDLINE and links to full text articles when possible.
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PubMed-Alerts:
An announcements-only e-mail list that notifies subscribers of major system problems with PubMed, the MeSH Database and the NLM Catalog (Monday through Friday, 8:30am to 5:00pm ET).

NCBI Resources How To Sign in to NCBI

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed Search

Advanced Help

PubMed

PubMed comprises more than 28 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

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- PubMed Quick Start Guide
- Full Text Articles
- PubMed FAQs
- PubMed Tutorials
- New and Noteworthy

PubMed Tools

- PubMed Mobile
- Single Citation Matcher
- Batch Citation Matcher
- Clinical Queries
- Topic-Specific Queries

More Resources

- MeSH Database
- Journals in NCBI Databases
- Clinical Trials
- E-Utilities (API)
- LinkOut

Latest Literature

New articles from highly accessed journals

Ann N Y Acad Sci (1)

Cell (9)

www.ncbi.nlm.nih.gov/nlmcatalog/journals

Trending Articles

PubMed records with recent increases in activity

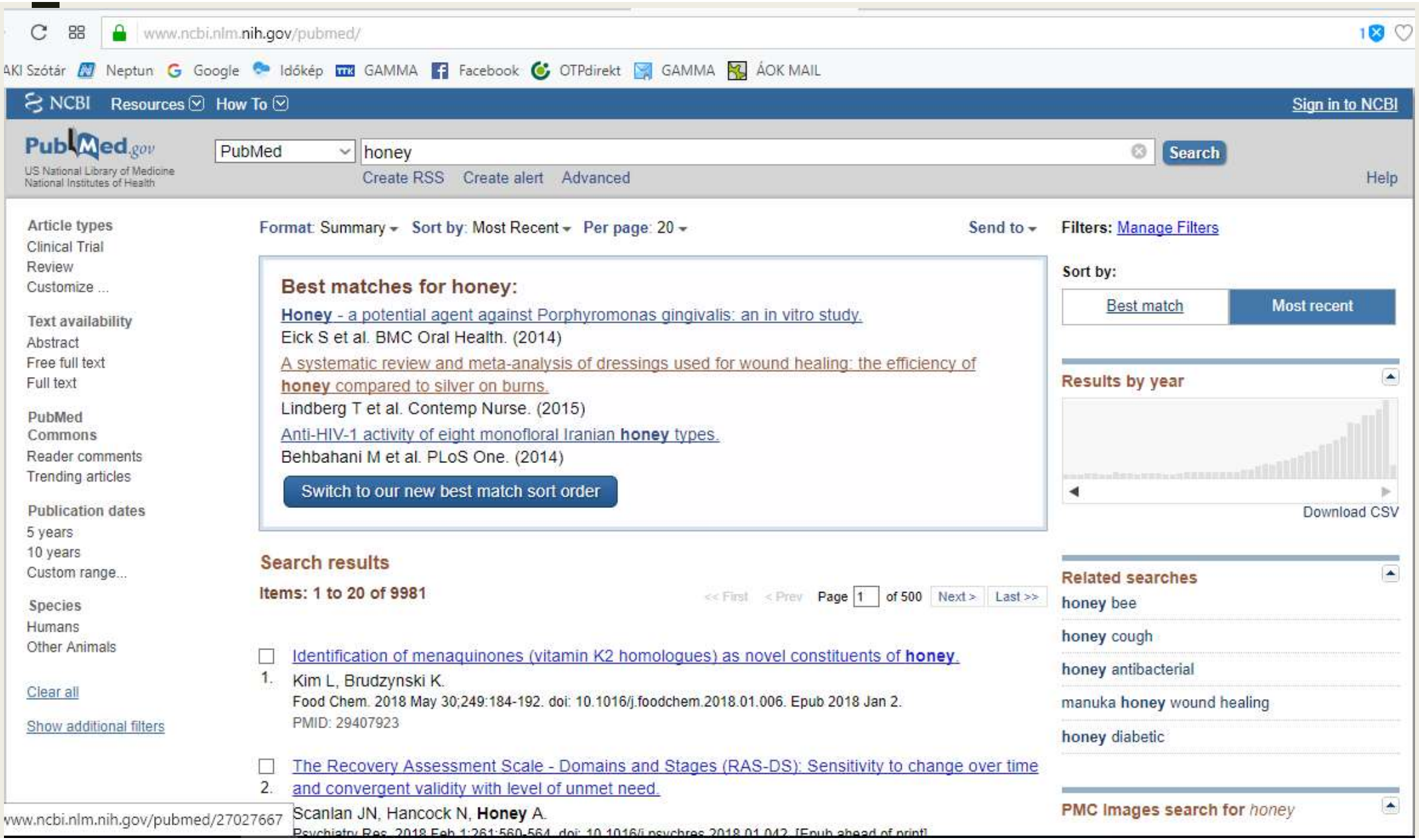
Haploinsufficiency leads to neurodegeneration in C9ORF72 ALS/FTD human induced motor neurons.
Nat Med. 2018.

Eradication of spontaneous malignancy by local immunotherapy.

PubMed Commons

Featured comments

Sex-specific differences: S Klaus comments on the implications of not considering sex when studying weight in rodents
bit.ly/2DZxFn3
Feb 1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GAMMA
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Create alert
Advanced
Help
Article types
Clinical Trial
Review
Customize ...
Text availability
Abstract
Free full text
Full text
PubMed Commons
Reader comments
Trending articles
Publication dates
5 years
10 years
Custom range...
Species
Humans
Other Animals
Clear all
Show additional filters
Format: Summary
Sort by: Most Recent
Per page: 20
Send to
Filters: Manage Filters
Best matches for honey:
Honey - a potential agent against Porphyromonas gingivalis: an in vitro study.
Eick S et al. BMC Oral Health. (2014)
A systematic review and meta-analysis of dressings used for wound healing: the efficiency of honey compared to silver on burns.
Lindberg T et al. Contemp Nurse. (2015)
Anti-HIV-1 activity of eight monofloral Iranian honey types.
Behbahani M et al. PLoS One. (2014)
Switch to our new best match sort order
Search results
Items: 1 to 20 of 9981
<< First
< Prev
Page 1 of 500
Next >
Last >>
1. Identification of menaquinones (vitamin K2 homologues) as novel constituents of honey.
Kim L, Brudzynski K.
Food Chem. 2018 May 30;249:184-192. doi: 10.1016/j.foodchem.2018.01.006. Epub 2018 Jan 2.
PMID: 29407923
2. The Recovery Assessment Scale - Domains and Stages (RAS-DS): Sensitivity to change over time and convergent validity with level of unmet need.
Scanlan JN, Hancock N, Honey A.
Psychiatry Res. 2018 Feb 1;261:560-564. doi: 10.1016/j.psychres.2018.01.042. [Epub ahead of print]
Sort by:
Best match
Most recent
Results by year
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Related searches
honey bee
honey cough
honey antibacterial
manuka honey wound healing
honey diabetic
PMC Images search for honey
www.ncbi.nlm.nih.gov/pubmed/27027667

Contemp Nurse. 2015 Oct-Dec;51(2-3):121-34. doi: 10.1080/10376178.2016.1171727. Epub 2016 Apr 18.

A systematic review and meta-analysis of dressings used for wound healing: the efficiency of honey compared to silver on burns.

Lindberg T[1], Andersson O[1], Palm M[1], Fagerström C[1].

Author information

Abstract

BACKGROUND: Honey has the antibacterial effect of silver without the toxic effect of silver on the skin. Even so, silver is the dominant antibacterial dressing used in wound healing.

OBJECTIVES: To evaluate the healing effects of honey dressings compared to silver dressings for acute or chronic wounds.

DESIGN: A systematic review with meta-analysis.

METHOD: The search, conducted in seven databases, resulted in six randomised controlled trial studies from South Asia focusing on antibacterial properties and healing times of honey and silver.

RESULT: Honey was more efficacious for wound healing than silver, as measured in the number of days needed for wounds to heal (pooled risk difference -20, 95% CI -0.29 to -0.11, p < .001). Honey turned out to have more antibacterial qualities than silver.

CONCLUSION: All the included studies based on burns showed the unequivocal result that honey had an even more positive effect than silver on wound healing.

KEYWORDS: antibacterial dressing; burns; honey; silver; wound healing

PMID: 27027667 DOI: 10.1080/10376178.2016.1171727

[Indexed for MEDLINE]

Process of literature search
Online bibliographical databases

- Search words:

  AND: records with both search words appear

  OR: when the same thing / field can be found under multiple names

  NOT: we want to exclude a word from our search

  chunks: using only the stem of a word

  Search word occurring only in certain fields (e.g. title, authors)

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asclepias AND nectar | Author name | Journal/book title | Volume | Issue | Pages | Advanced search

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- Review articles (24)
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- Encyclopedia (9)
- Book chapters (68)

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Publication title

- Flora (15)
- South African Journal of Botany (9)
- Trends in Ecology & Evolution (8)

Nectar protein content and attractiveness to Aedes aegypti and Culex pipiens in plants with **nectar**/insect associations

Research article

Acta Tropica, Volume 146, June 2015, Pages 81-88

Zhongyuan Chen, Christopher M. Kearney

Download PDF (1 937 KB) Abstract Export Citation

Nectar secretion dynamics and honey production potentials of some major honey plants in Saudi Arabia

Open access, Research article

Saudi Journal of Biological Sciences, Volume 24, Issue 1, January 2017, Pages 180-191

Nuru Adgaba, Ahmed Al-Ghamdi, Yilma Tadesse, Awraris Getachew, ... Abdulaziz S. Alqarni

Download PDF (1 245 KB) Abstract Export Citation

Nectar: generation, regulation and ecological functions

Review article

Trends in Plant Science, Volume 16, Issue 4, April 2011, Pages 191-200

Martin Heil

Download PDF (923 KB) Abstract Export Citation

Corona and **nectar** system in Asclepiadinae (Asclepiadaceae)

Research article

Feedback

ScienceDirect

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asclepias OR milkweed | Author name | Journal/book title | Volume | Issue | Pages | Advanced search

3,789 results

Refine by:

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- 2018 (41)
- 2017 (129)
- 2016 (131)

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Article type

- Review articles (276)
- Research articles (2,050)
- Encyclopedia (88)
- Book chapters (721)

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Publication title

- Journal of Insect Physiology (301)
- Journal of Ethnopharmacology (114)
- Developmental Biology (107)

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Milkweed control by food imprinted rabbits
Research article
Behavioural Processes, Volume 130, September 2016, Pages 75-80
Anita Ducs, Andrea Kazi, Ágnes Bilkó, Vilmos Altbäcker
Download PDF (718 KB) Abstract Export Citation

Transesterified milkweed (Asclepias) seed oil as a biodiesel fuel
Research article
Fuel, Volume 85, Issues 14–15, October 2006, Pages 2106-2110
Ronald Alan Holser, Rogers Harry-O'Kuru
Download PDF (100 KB) Abstract Export Citation

Characterization of milkweed (Asclepias spp.) seed proteins
Research article
Industrial Crops and Products, Volume 29, Issues 2–3, March 2009, Pages 275-280
Mila P. Hojilla-Evangelista, Roque L. Evangelista, Y. Victor Wu
Download PDF (569 KB) Abstract Export Citation

Patterns and causes of oviposition in monarch butterflies: Implications for milkweed restoration
Research article
Biological Conservation, Volume 217, January 2018, Pages 54-65

Feedback

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1,037 results

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Years

- 2018 (8)
- 2017 (44)
- 2016 (48)

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Article type

- Review articles (74)
- Research articles (606)
- Encyclopedia (12)
- Book chapters (144)

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Publication title

- Phytochemistry (66)
- Journal of Ethnopharmacology (40)
- Environmental Pollution (29)

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Sullivantosides A-F: Pregnane glycosides from Asclepias sullivantii L.
Short communication
Phytochemistry Letters, Volume 16, June 2016, Pages 185-191
Juan J. Araya, Kelly Kindscher, Barbara N. Timmermann
Download PDF (611 KB) Abstract Export Citation

Apoptotic activities of cardenolide glycosides from Asclepias subulata
Research article
Journal of Ethnopharmacology, Volume 193, 4 December 2016, Pages 303-311
L.A. Rascón-Valenzuela, C. Velázquez, A. Garibay-Escobar, W. Vilegas, ... R.E. Robles-Zepeda
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Antiproliferative activity of cardenolide glycosides from Asclepias subulata
Research article
Journal of Ethnopharmacology, Volume 171, 2 August 2015, Pages 280-286
L. Rascón-Valenzuela, C. Velázquez, A. Garibay-Escobar, L.A. Medina-Juárez, ... R.E. Robles-Zepeda
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Verticillosides A–M: Polyoxygenated pregnane glycosides from Asclepias verticillata L.
Research article
Phytochemistry, Volume 78, June 2012, Pages 179-189

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Publication title

- Journal of Ethnopharmacology (3)
- Comparative Biochemistry and Physiology Part A: Physiology (1)

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General Information
Canadian Journal of Ophthalmology / Journal Canadien d'Ophtalmologie, Volume 35, Issue 2, March 2000, Pages 61-75
No authors available
Download PDF (8 393 KB) Abstract Export Citation

Cynanchum and the Cynanchinae (Apocynaceae – Asclepiadoideae): a molecular, anatomical and latex triterpenoid study
Open archive, Research article
Organisms Diversity & Evolution, Volume 2, Issue 3, 2002, Pages 239-269
Sigrid Liede, Henning Kunze
Download PDF (1 028 KB) Abstract Export Citation

Can selection to escape nectar thieving force plants to portion nectar in many flowers?
Discussion
Acta Oecologica, Volume 20, Issue 1, January–February 1999, Pages 67-69
Mats W. Pettersson
Download PDF (322 KB) Abstract Export Citation

Coping with toxic plant compounds – The insect's perspective on iridoid glycosides and cardenolides
Review article
Phytochemistry, Volume 72, Issue 13, September 2011, Pages 1593-1604

Feedback

gy Part A:

Coping with toxic plant compounds – The insect's perspective on iridoid glycosides and cardenolides

Review article

Phytochemistry, Volume 72, Issue 13, September 2011, Pages 1593-1604

Susanne Dobler, Georg Petschenka, Helga Pankoke

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Abstract Graphical Abstract

in insect herbivores. In this review, we focus on two compound classes, iridoid glycosides and cardenolides, which can be found in the food plants of a large number of insect species that display various degrees of adaptation to them. These secondary compounds have very different modes of action: Iridoid glycosides are usually activated in the gut of the herbivores by β-glucosidases that may either stem from the food plant or be present in the gut as standard digestive enzymes. Upon cleaving, the unstable aglycone is released that unspecifically acts by crosslinking proteins and inhibiting enzymes. Cardenolides, on the other hand, are highly specific inhibitors of an essential ion carrier, the sodium pump. In insects exposed to both kinds of toxins, carriers either enabling the safe storage of the compounds away from the activating enzymes or excluding the toxins from sensitive tissues, play an important role that deserves further analysis. To avoid toxicity of iridoid glycosides, repression of activating enzymes emerges as a possible alternative strategy. Cardenolides, on the other hand, may lose their toxicity if their target site is modified and this strategy has evolved multiple times independently in cardenolide-adapted insects.

Effect of Momordica charantia on key hepatic enzymes

Research article

Journal of Ethnopharmacology, Volume 44, Issue 2, October 1994, Pages 93-97

Kamani H. Tennekoon, S. Jeevathayaparan, Preethika Angunawala, Eric H. Karunanayake, K.S.A. Jayasinghe

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Phytochemistry 72 (2011) 1593–1604

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Phytochemistry

journal homepage: www.elsevier.com/locate/phytochem

Review

Coping with toxic plant compounds – The insect's perspective on iridoid glycosides and cardenolides

Susanne Dobler*, Georg Petschenka, Helga Pankoke[1]

Biocenter Grindel, Hamburg University, Martin-Luther-King Platz 3, 20146 Hamburg, Germany

ARTICLE INFO

Article history:
Available online 26 May 2011

Keywords:
Iridoid glycosides
Cardenolides
Insect metabolism
Sequestration
Exclusion
Excretion
Na^+/K^+-ATPase
Target site insensitivity

ABSTRACT

Specializing on host plants with toxic secondary compounds enforces specific adaptation in insect herbivores. In this review, we focus on two compound classes, iridoid glycosides and cardenolides, which can be found in the food plants of a large number of insect species that display various degrees of adaptation to them. These secondary compounds have very different modes of action: Iridoid glycosides are usually activated in the gut of the herbivores by β-glucosidases that may either stem from the food plant or be present in the gut as standard digestive enzymes. Upon cleaving, the unstable aglycone is released that unspecifically acts by crosslinking proteins and inhibiting enzymes. Cardenolides, on the other hand, are highly specific inhibitors of an essential ion carrier, the sodium pump. In insects exposed to both kinds of toxins, carriers either enabling the safe storage of the compounds away from the activating enzymes or excluding the toxins from sensitive tissues, play an important role that deserves further analysis. To avoid toxicity of iridoid glycosides, repression of activating enzymes emerges as a possible alternative strategy. Cardenolides, on the other hand, may lose their toxicity if their target site is modified and this strategy has evolved multiple times independently in cardenolide-adapted insects.

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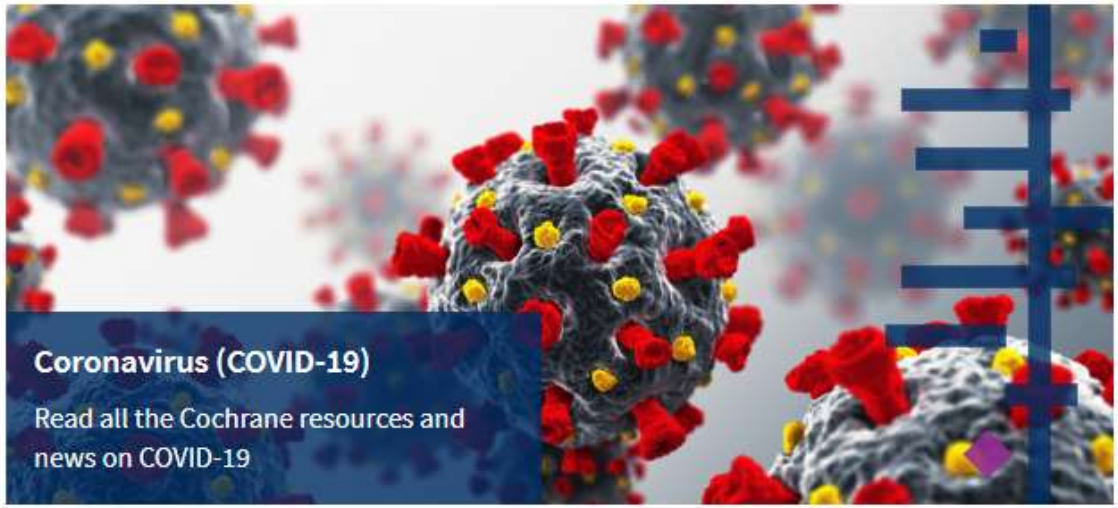

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Sifting the evidence, The Guardian, 14 September 2016

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Antidepressant treatment for postnatal depression

Jennifer Valeska Elli Brown, Claire A Wilson, Karyn Ayre, Lindsay Robertson, Emily South, Emma Molyneaux, Kylee Trevillion, Louise M Howard, Hind Khalifeh Authors' declarations of interest

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Abstract

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Background

Depression is one of the most common morbidities of the postnatal period. It has been associated with adverse outcomes for women, children, the wider family and society as a whole. Treatment is with psychosocial interventions or antidepressant medication, or both. The aim of this review is to evaluate the effectiveness of different antidepressants and to compare their effectiveness with placebo, treatment as usual or other forms of treatment. This is an update of a review last published in 2014.

Objectives

Plain language summary

Available in English | Español

Antidepressant treatment for postnatal depression

Review question

In this Cochrane Review, we wanted to find out how well antidepressants work for treating women with postnatal depression.

Why this is important

Postnatal depression is depression that starts within 12 months of a woman having a baby. Many women are affected. Postnatal depression can have serious short- and long-term effects on the mother, the baby, and the family as a whole.

There are several ways to treat postnatal depression. These include antidepressant medication, psychological therapy, support or counselling. The type of treatment offered depends on how severe the depression is, other illnesses and the woman's choice. In general, women who are pregnant or breastfeeding are often anxious about the potential unwanted effects of antidepressant medicines on their baby.

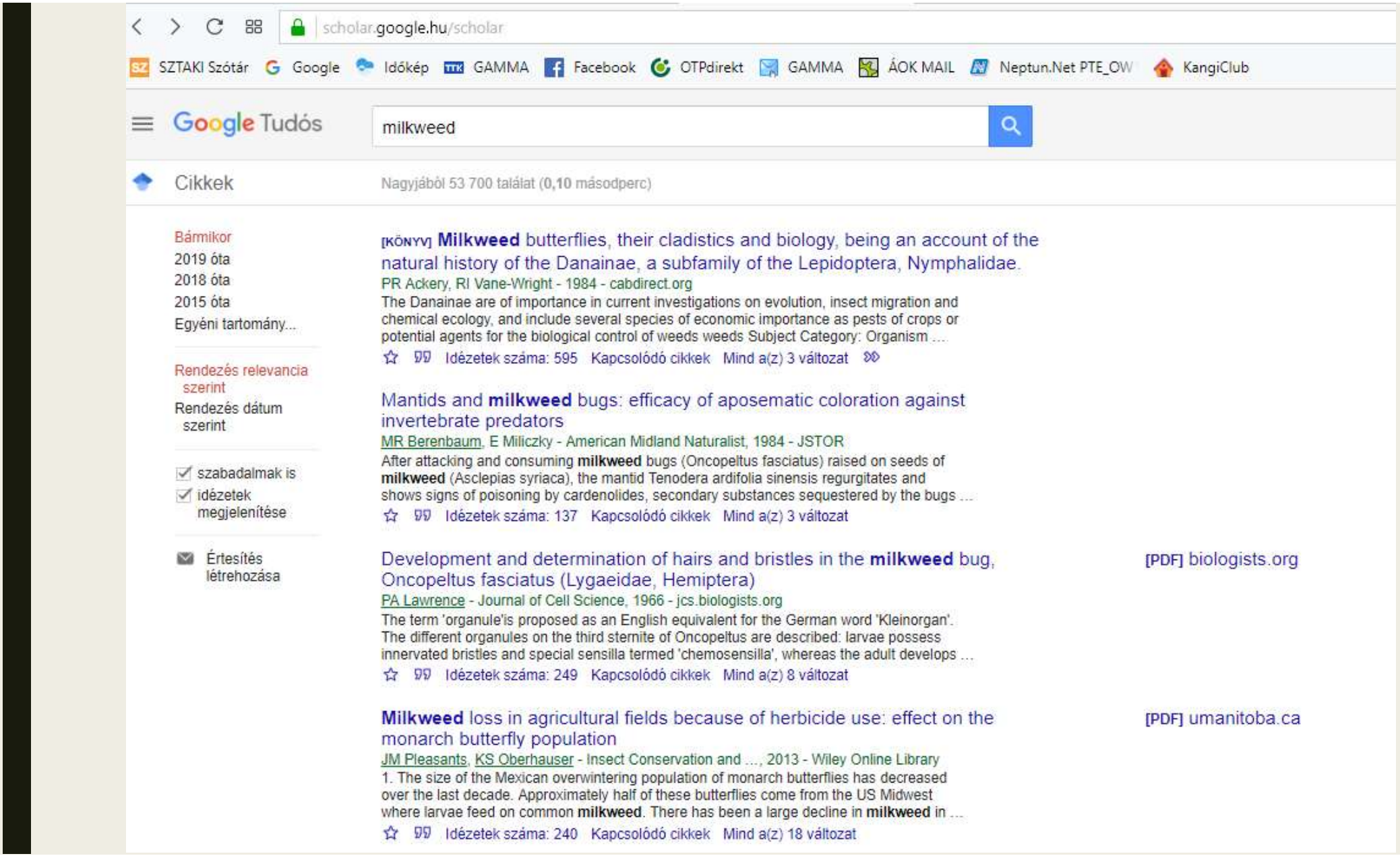
It is important to know whether antidepressants could be an effective and acceptable treatment for women with postnatal depression.

What we did

In May 2020, we searched for studies of antidepressants for women with postnatal depression. We looked for randomised controlled trials, in which treatments were given to study participants at random. These studies give the most reliable evidence.

We included 11 studies involving 1016 women. The studies compared antidepressants with placebo (dummy pill), treatment as usual (watch and wait, regular visits with a care co-ordinator), psychological interventions (therapy), psychosocial interventions (peer support or counselling), any other other medicines or another type of antidepressant; and complementary medicine (food supplements).

Eight of the studies were conducted in English-speaking, high-income countries. The length of treatment ranged from four to 24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[KÖNYV] Milkweed butterflies, their cladistics and biology, being an account of the natural history of the Danainae, a subfamily of the Lepidoptera, Nymphalidae.
PR Ackery, RI Vane-Wright - 1984 - cabdirect.org
The Danainae are of importance in current investigations on evolution, insect migration and chemical ecology, and include several species of economic importance as pests of crops or potential agents for the biological control of weeds weeds Subject Category: Organism ...
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Mantids and milkweed bugs: efficacy of aposematic coloration against invertebrate predators
MR Berenbaum, E Miliczky - American Midland Naturalist, 1984 - JSTOR
After attacking and consuming milkweed bugs (Oncopeltus fasciatus) raised on seeds of milkweed (Asclepias syriaca), the mantid Tenodera ardifolia sinensis regurgitates and shows signs of poisoning by cardenolides, secondary substances sequestered by the bugs ...
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Development and determination of hairs and bristles in the milkweed bug, Oncopeltus fasciatus (Lygaeidae, Hemiptera)
[PDF] biologists.org
PA Lawrence - Journal of Cell Science, 1966 - jcs.biologists.org
The term 'organule'is proposed as an English equivalent for the German word 'Kleinorgan'. The different organules on the third sternite of Oncopeltus are described: larvae possess innervated bristles and special sensilla termed 'chemosensilla', whereas the adult develops ...
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Milkweed loss in agricultural fields because of herbicide use: effect on the monarch butterfly population
[PDF] umanitoba.ca
JM Pleasants, KS Oberhauser - Insect Conservation and ..., 2013 - Wiley Online Library
1. The size of the Mexican overwintering population of monarch butterflies has decreased over the last decade. Approximately half of these butterflies come from the US Midwest where larvae feed on common milkweed. There has been a large decline in milkweed in ...
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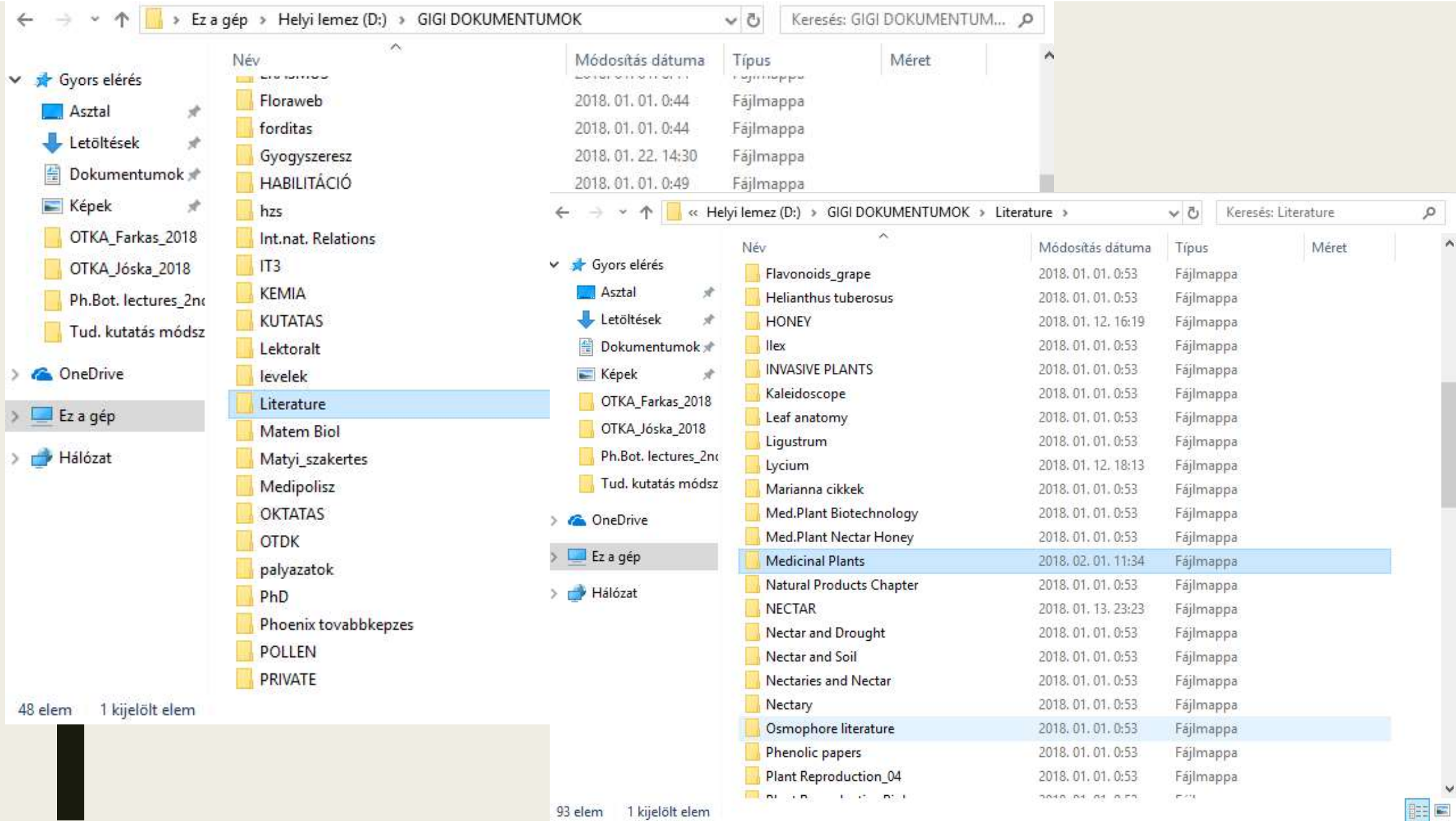
Ecology, 85(9), 2004, pp. 2616–2629

COMMUNITY-WIDE IMPACTS OF HERBIVORE-INDUCED PLANT RESPONSES IN MILKWEED (*ASCLEPIAS SYRIACA*)

PETER A. VAN ZANDT[1] AND ANURAG A. AGRAWAL

Department of Botany, University of Toronto, 25 Willcocks Street, Toronto, Ontario, Canada M5S 3B2

Abstract. The effects of early-season herbivory and subsequent induced plant responses have the potential to affect the diversity of herbivorous insect communities. We investigated the seasonal development of the herbivore fauna on common milkweed (*Asclepias syriaca*) to understand the effect of early-season herbivory by different species on insect growth, natural colonization, and community composition. First, we showed that damage by an early-season stem-feeding weevil (*Rhyssomatus lineaticollis*) reduced growth of monarch larvae (*Danaus plexippus*) and leaf beetle larvae (*Labidomera clivicollis*), suggesting that plant quality is reduced by weevil damage. To better understand the potential for initial herbivore damage to affect subsequent colonization by herbivores in the field, we compared undamaged controls to plants experimentally damaged with one of three herbivores: weevils, monarchs, or leaf beetles. We counted seven species of naturally colonizing herbivores on all plants for the next two months to assess colonization, damage, and insect community richness. Our results showed that initial herbivory by different species altered host plant use by herbivores in two years of experiments. Similarly, induced resistance and susceptibility occurred in both years, but due to different initial damaging species on individual plants. Treatment effects also scaled up to alter herbivore community richness. Initial treatments varied in their persistence through the season. For example, in 2001, the influence of initial monarch damage dissipated due to subsequent damage by colonizing herbivores, but the impacts of initial weevil treatment were unaffected. This result suggests that, although induced responses to weevil feeding persisted through the season, monarch herbivory was more likely to affect the herbivore community via a cascade of indirect effects. In 2002, plant and insect responses were more specific, depending on the identity of both initial and colonizing herbivore species. Despite year-to-year variation, considerable consistency in many responses to our treatments indicates that the identity of the initially colonizing herbivore can affect subsequent plant use and community structure. Given the preponderance of influential early-season herbivores, the effects of induced plant responses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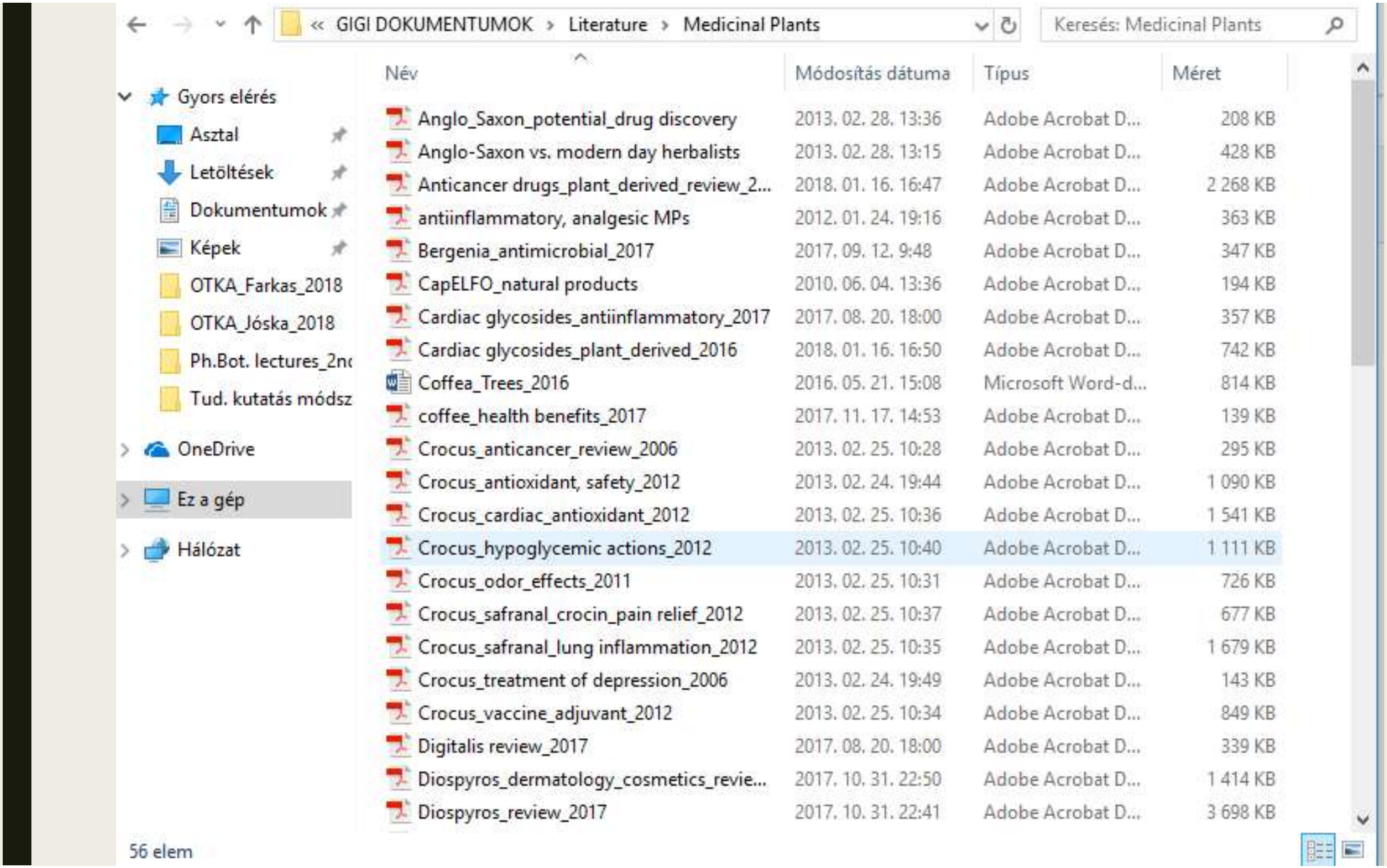
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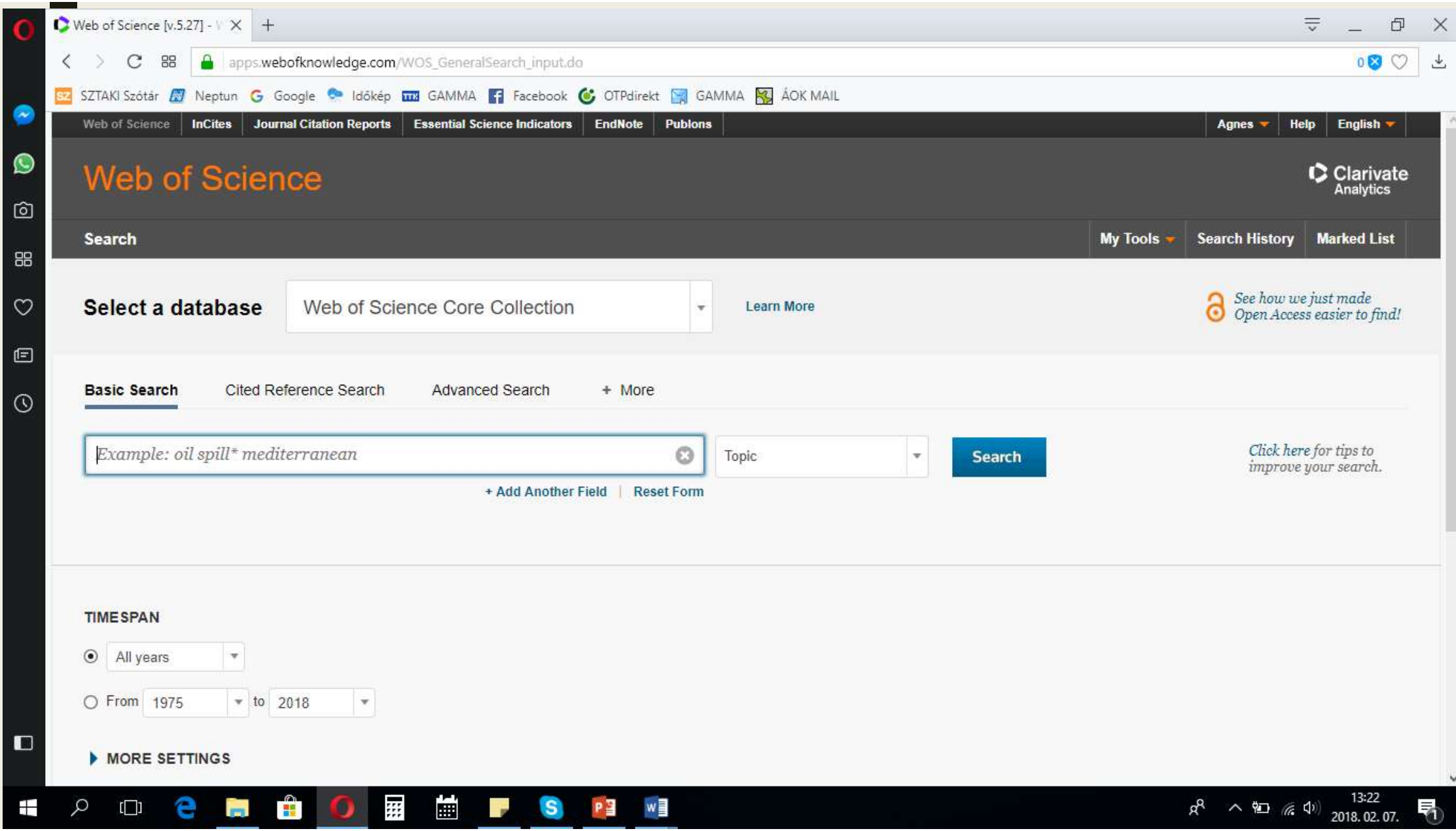
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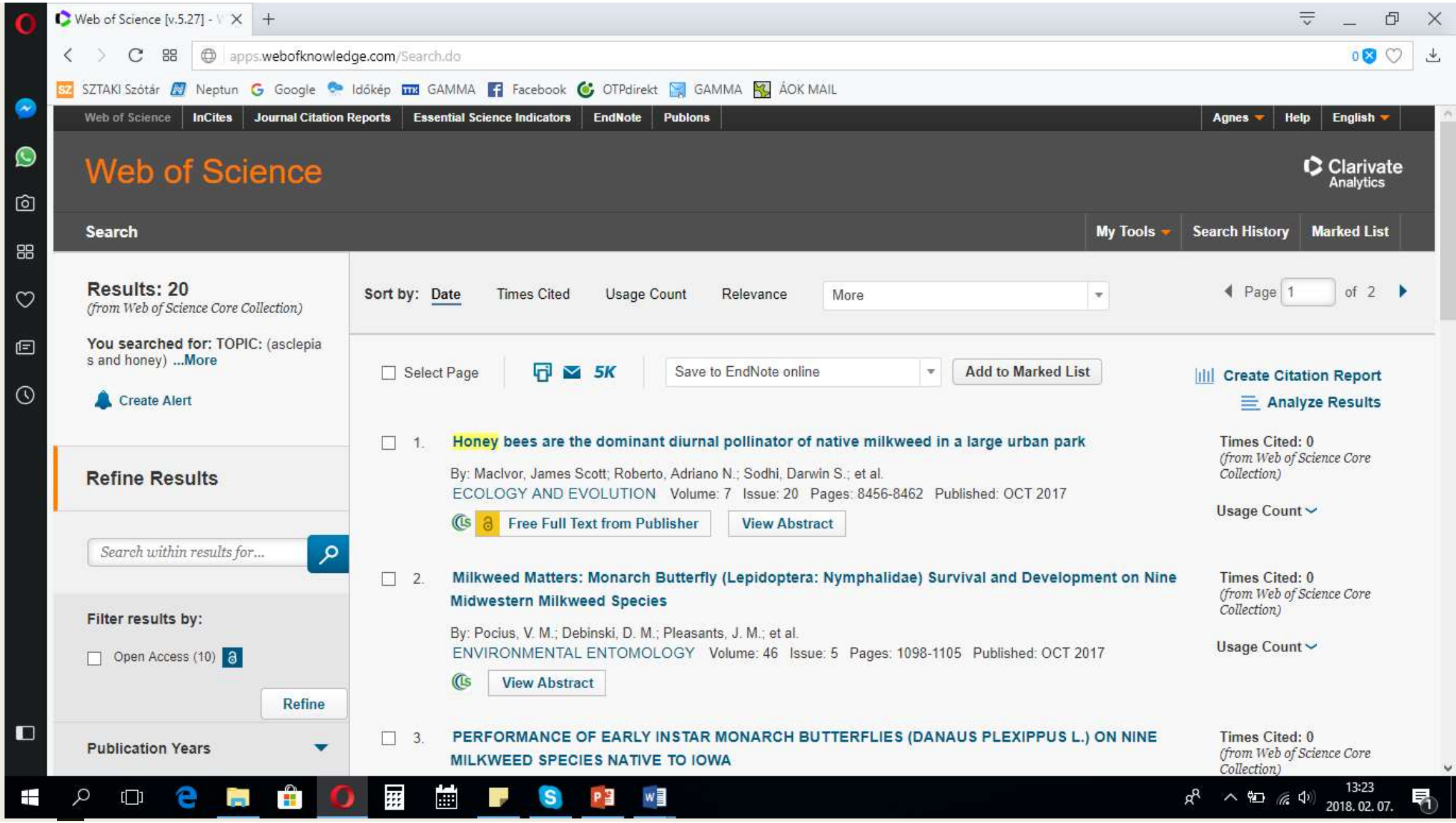
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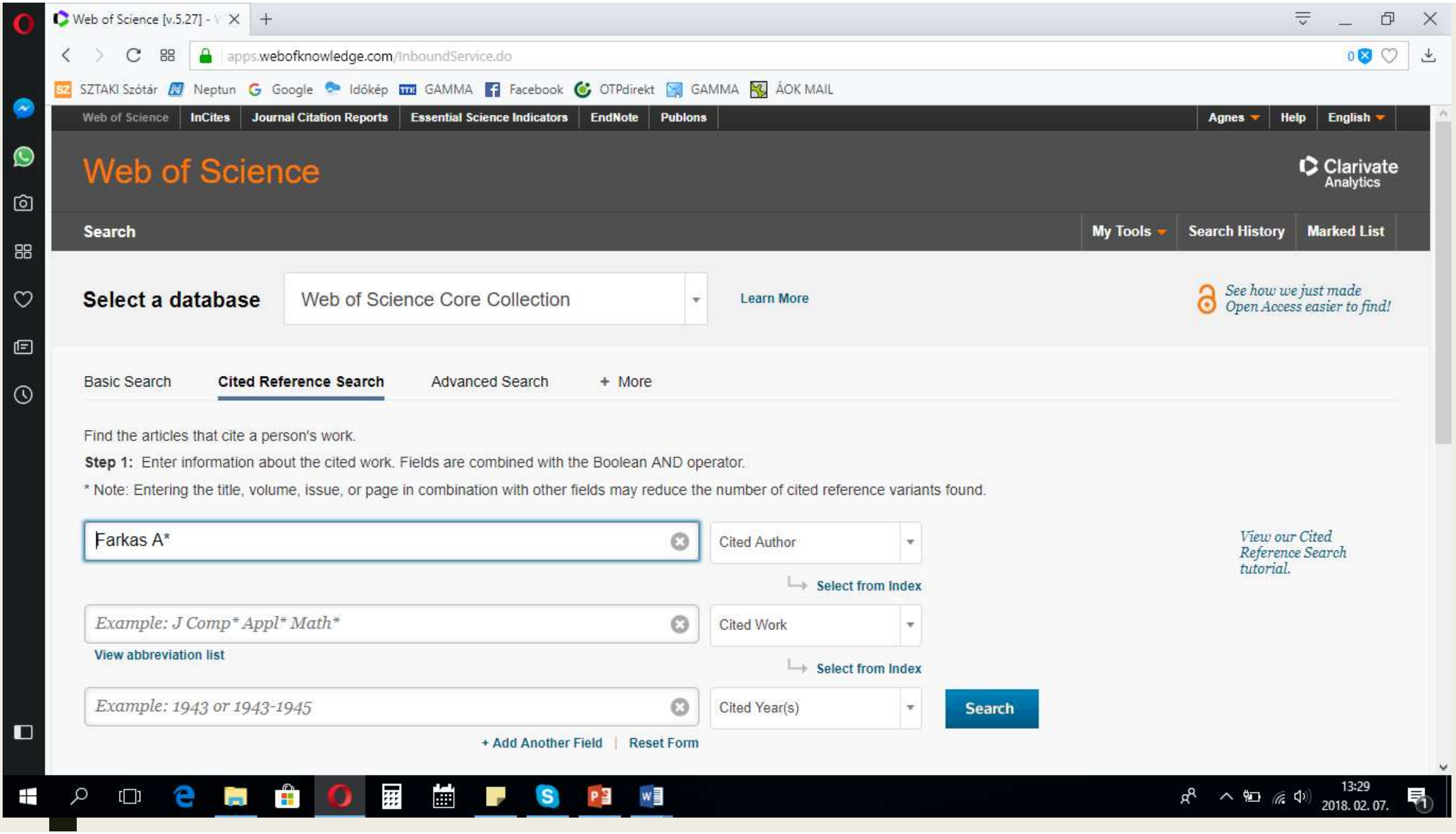
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