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Introductory demonstration

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CAB Abstracts

Full Text – headline Facts

- Full Text for over **188,000 records**
- 62% Journal articles, 36% Conference papers
- Small, but growing number of reports
- 77% English
- Over 680 current journals from 81 countries
- Over 700 total FT journals in database

CAB Abstracts

Updates

- Key resource for **applied life sciences** – agriculture, forestry, animal and vet sciences, soil science, AND **nutrition, environment and leisure and tourism**
- Over **7.3 million** records
- **363k** records added in 2012 (vs 353k in 2011)
- **8,124 serials indexed**, from 119 countries in over 50 languages, including 486 new serials in 2012
- Over **188,000 Full Text Records** (43k added in 2012) from over **680 journals** plus conferences – over 70% non-open access

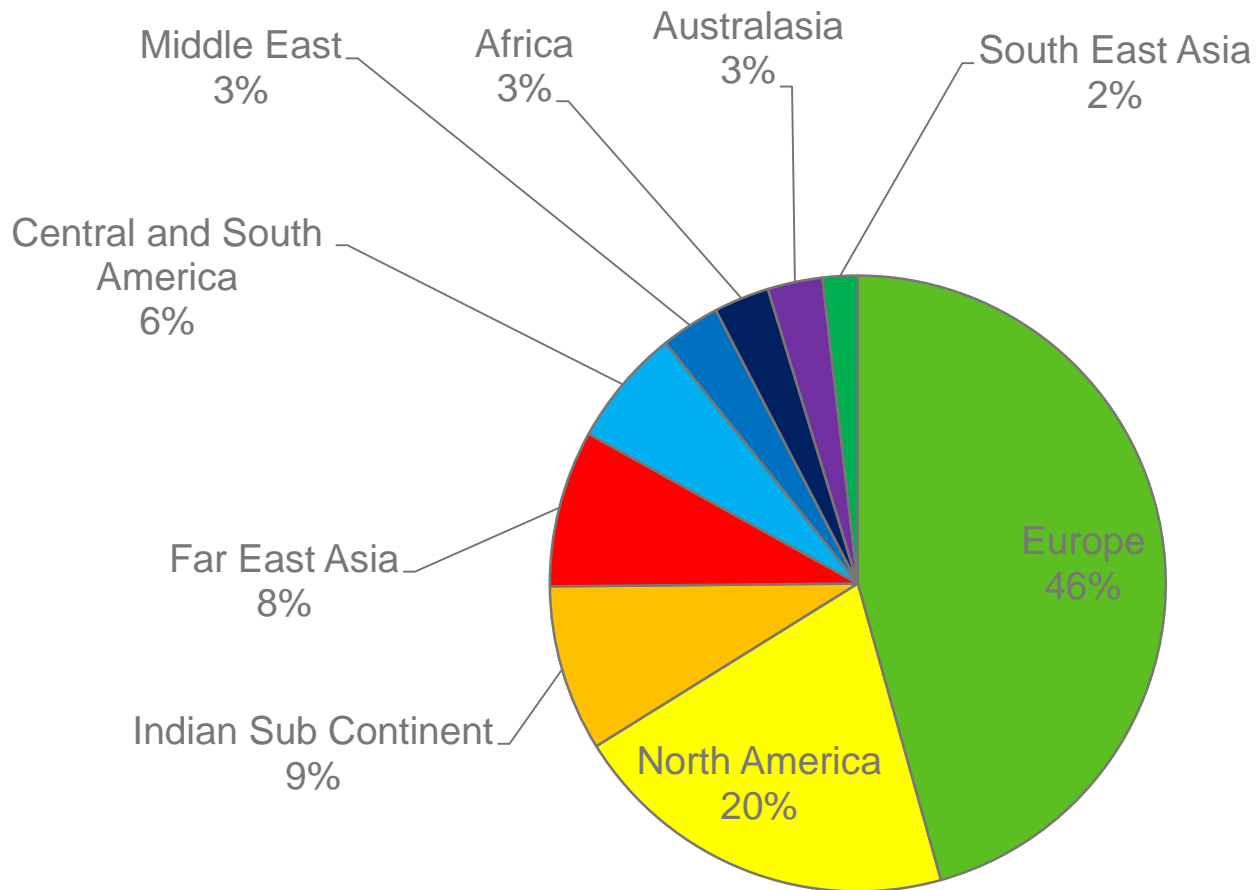
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Subject Coverage

- Agricultural engineering
- **Applied economics and sociology**
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- **Biosafety and Bioterrorism**
- Biotechnology
- Breeding
- Chemistry
- **Climate change**
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- **Ecotourism**
- Entomology
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- Genetics
- Helminthology
- Horticultural science
- **Human nutrition**
- Invasive species
- **Leisure and tourism**
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- Microbiology
- Mycology
- **Natural resources, land/water management**
- Nematology
- Organic and sustainable agriculture
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- Plant protection
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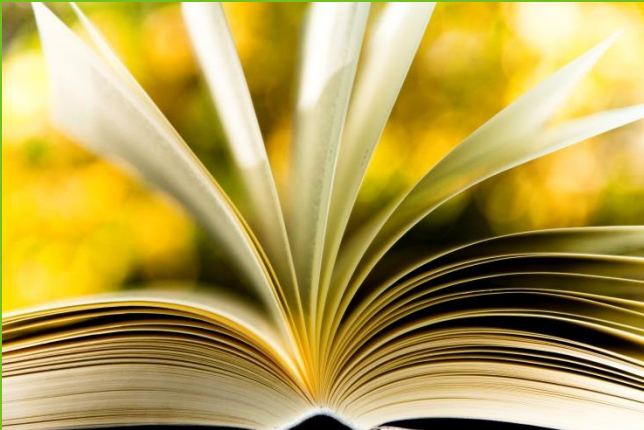
Geographic Coverage from 119 countries



Training agenda

- Simple searching and navigating the interface
- Advanced searching and Indexes
- MyCABDirect features
- Q&A

What is a bibliographic database?



A bibliographic database can be compared to a printed journal

It contains:

- Record articles with bibliographic data
- Indexes

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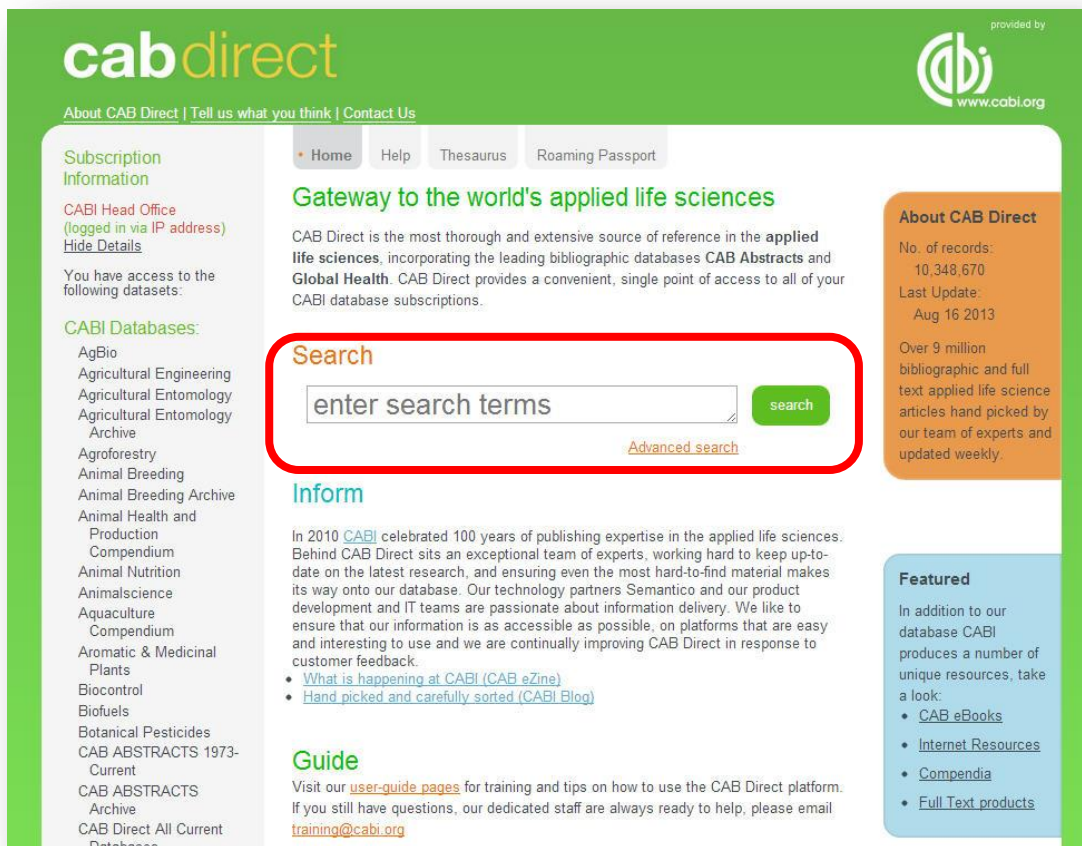
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Descriptor	de
Organism Descriptor	od
Geographic Locator	gl
Broad term	up
Identifier	id
Subject term	subject
Publication source	do
Publisher	publisher
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Free-text index fields



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- Subscription Information:** Includes links for 'CABI Head Office (logged in via IP address)', 'Hide Details', and a statement about access to datasets.
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- Free-text index
- Word stemming
- Automatic Boolean operations for white-space

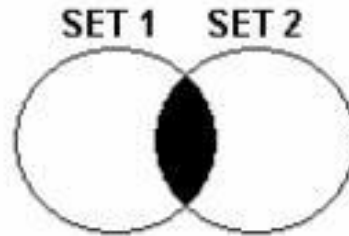
Simple searching: Search techniques

Search technique	Example	Description	Function	Reason to use
Single word search	<div><input type="text" value="Scot pine"/><div>search</div></div>	Search databases using a single word term	Returns a broad range of results quickly for a particular word/topic	Provides a broad overview of a scientific area of interest
Boolean search	<div><input "scot="" (netherlands="" and="" holland)'="" or="" pine"="" type="text" value='"Scot pine" AND Netherlands"/><div>search</div></div></td><td>Search databases using the operators AND, OR and NOT</td><td>Performs searches on multiple concepts that provides specific keyword searching for an area of interest that can include or exclude other concepts.</td><td>Allows the user to conduct more controlled searching. Can be used to omit homophones</td></tr><tr><td>Phrase searching</td><td><div><input type="text" value='/><div>search</div></div>	Use quotation marks before and after a multiple word phrase	Returns results only containing the entire phrase	Narrows searching to records that only contain the whole phrase
Parentheses	<div><input type="text" value='"Scot pine" AND (Netherlands OR Holland) AND (pests NOT Fungi)'/><div>search</div></div>	Searches databases using keywords, Boolean operators and parentheses.	Used for searches that contain multiple Boolean operators to define the correct search logic	Refines searches with Boolean operators further to provide limited search results
Wild cards	<div><input type="text" value="Scot pines AND Netherlands AND (pests NOT Fungi) AND distrib*"/><div>search</div></div>	Uses the symbols * and ? in keyword search	Using the * returns results with different word stems for the root word Using the ? symbol allows users to specify unknown characters	The * allows users to broaden results to keywords with differing word stems e.g. pop* = popular, population, etc. The ? returns results using a keyword that may differ in spelling

Boolean searching

AND

e.g. armyworm AND africa



Retrieves only records that contain all the terms chosen

OR

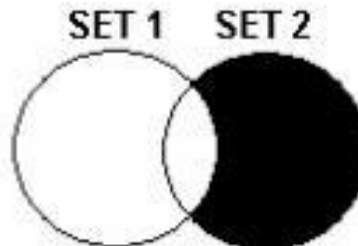
e.g. armyworm OR africa



Retrieves only records that contain any of the terms chosen

NOT

e.g. armyworm NOT africa



Retrieves only records that include keyword terms and exclude certain terms

Parentheses and wild cards

Use parentheses when multi-term searching with 3+ Boolean operators

Research question: The housing of cattle or sheep

1. (Cattle OR Sheep)
2. (housing AND (cattle OR sheep))
3. (housing AND (cattle OR sheep)) NOT diseases

Wild cards include ?? for individual characters or * for truncation

e.g. (hous* AND (cattle OR sheep)) NOT disease*

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Subject Category (CABICODE)
EE115 - Natural Resource Economics, (New March 2000)
MM130 - Aquaculture (Biotech)

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Document details

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Title Biofuel from microalgae: myth versus reality.

Authors Jubilee Purkayastha; Gogoi, H. K.; Lokendra Singh; Vijay Veer

Author Affiliation Defence Research Laboratory, Tezpur 784 001, Assam, India.

Editor Rajesh Arora

Book Microbial biotechnology: energy and environment 2012 pp. 240-249

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★ **2 Considering water availability and wastewater resources in the development of algal bio-oil.** Chiu, Y. W.; Wu, M.; Wiley-Blackwell, Chichester, UK, **Biofuels, Bioproducts & Biorefining**, 2013, 7, 4, pp 406-415, 54 ref.

This study aims to quantify water appropriation and the potential production of algal bio-oil using freshwater and municipal wastewater effluent (MWW) as an alternative water resource. The county-level analysis focuses on open-pond algae cultivation systems located in 17 states in the southern United States. Several scenarios were developed to examine the water availability for algae bio-oil produ...

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★ **3 Comparative studies of thermochemical liquefaction characteristics of microalgae, lignocellulosic biomass and sewage sludge.** Huang HuaJun; Yuan XingZhong; Zhu HuiNa; Li Hui; Liu Yan; Wang XueLi; Zeng GuangMing; Elsevier Ltd, Oxford, UK, **Energy (Oxford)**, 2013, 56, pp 52-60, 33 ref.

Lignocellulosic biomass, microalgae and sewage sludge have distinct compositions and structures to each other. To understand the effect of feedstock differences on biomass liquefaction process, the liquefaction characteristics of rice straw

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★ 2 **Biofuel from microalgae: myth versus reality.** Jubilee Purkayastha; Gogoi, H. K.; Lokendra Singh; Vijay Veer; Rajesh Arora; CABI, Wallingford, UK, **Microbial biotechnology: energy and environment**, 2012, pp 240-249, many ref.

This chapter discusses the potential of using algae for biodiesel production, present perspective of promoting microalgal fuel, as well as the economics of microalgal fuel. Methods for the mass cultivation of microalgae are also presented.







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★ 3 **Status, innovations and challenges of next generation biofuel technologies.** Sims, R. E. H.; Singh, B. P.; CABI, Wallingford, UK, **Biofuel crops: production, physiology and genetics**, 2013, pp 23-43, 16 ref.

This chapter examines the current state of the art, the production costs, the supporting policies and the challenges for advanced **biofuel** technologies and practices. The chapter discusses the production of ethanol, biodiesel, and other liquid and gaseous **biofuels**, including: algal **biofuels**

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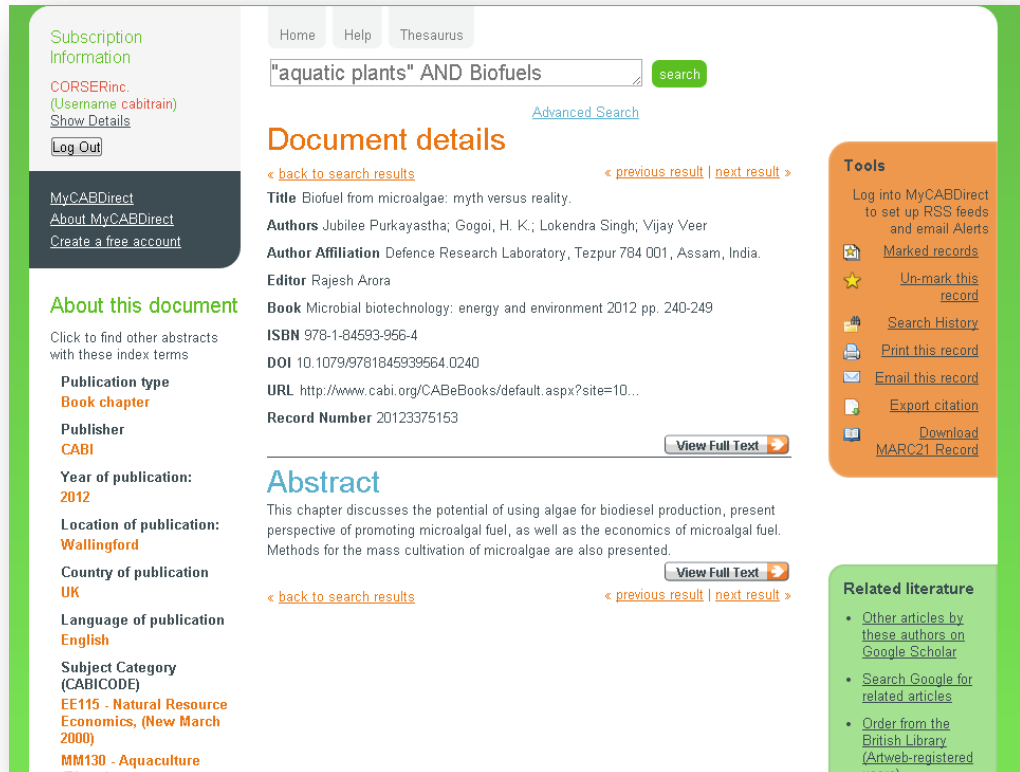
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Author Affiliation Defence Research Laboratory, Tezpur 784 001, Assam, India.

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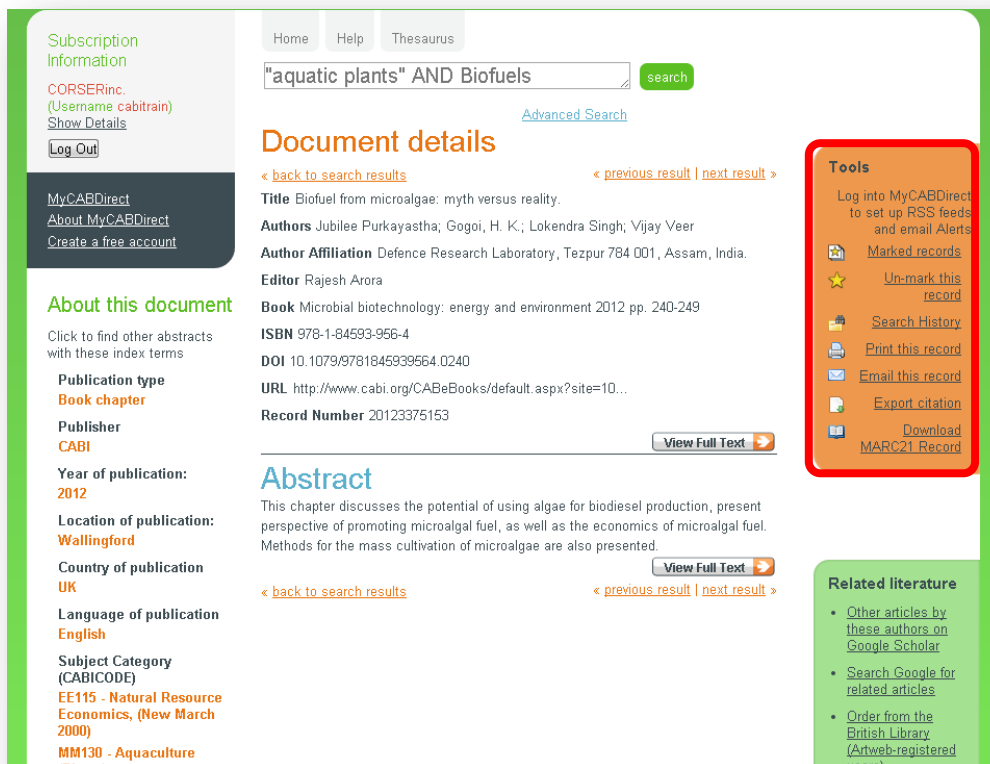
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This chapter examines the current state of the art, the production costs, the supporting policies and the challenges for advanced **biofuel** technologies and practices. The chapter discusses the production of ethanol, biodiesel, and other liquid and gaseous **biofuels**, including: algal **biofuels**

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This chapter examines the current state of the art, the production costs, the supporting policies and the challenges for advanced biofuel technologies and practices. The chapter discusses the production of ethanol, biodiesel, and other liquid and gaseous biofuels, including: algal biofuels, biomethanol, butanol, dimethyl ether, biogas, biosynthetic natural gas, and hydrogen.

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★ 2 **Biofuel from microalgae: myth versus reality.** Jubilee Purkayastha; Gogoi, H. K.; Lokendra Singh; Vijay Veer; Rajesh Arora; CABI, Wallingford, UK, **Microbial biotechnology: energy and environment**, 2012, pp 240-249, many ref.






This chapter discusses the potential of using algae for biodiesel production, present perspective of promoting microalgal fuel, as well as the economics of microalgal fuel. Methods for the mass cultivation of microalgae are also presented.

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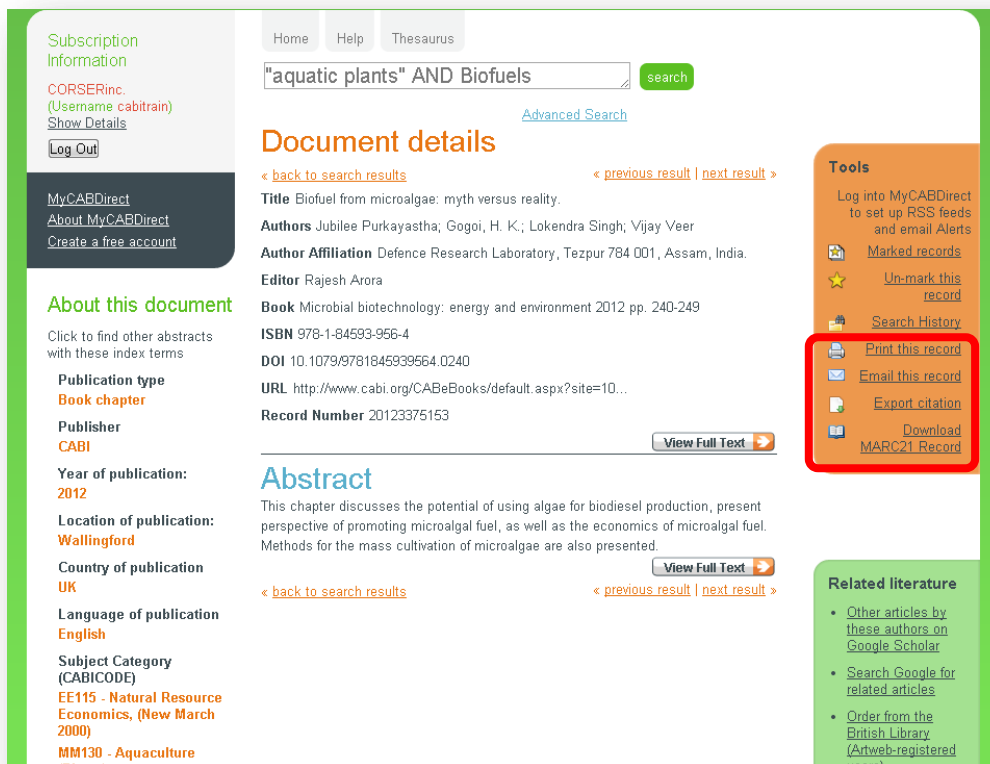
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This chapter examines the current state of the art, the production costs, the supporting policies and the challenges for advanced biofuel technologies and practices. The chapter and other liquid and gaseous biofuels, including: algal biofuels, biomethanol, butanol, dimethyl ether, biogas, biosynthetic natural gas, and hydrogen.

Publication type: Book chapter

Record Number: 20133196016

Author Affiliation: Centre for Energy Research, School of Engineering and Technology, Massey University, Private Bag 11222, Palmerston North, New Zealand.

Author Email: R.E.Sims@massey.ac.nz

ISBN: 978-1-84593-885-7

DOI: 10.1079/9781845938857.0023

Language of publication: English

Subject Category (CABICODE): Natural Resource Economics, (New March 2000) (EE115); Policy and Planning (EE120); Energy (PP100); Non-food/Non-feed Plant Products

Organism Descriptors: algae;

Descriptors: aquatic organisms; aquatic plants; biodiesel; bioenergy; biofuels; biogas; butanol; energy policy; ethanol; ethanol production; ethers; hydrogen; methanol; natural gas

Identifiers: aquatic species; ethyl alcohol; methyl alcohol; wood alcohol;

Broad Terms: plants; eukaryotes;

Biofuel from microalgae: myth versus reality. Jubilee Purkayastha; Gogoi, H. K.; Lokendra Singh; Vijay Veer; Rajesh Arora; CABI, Wallingford, UK, Microbial biotechnology and many ref.

This chapter discusses the potential of using algae for biodiesel production, present perspective of promoting microalgal fuel, as well as the economics of microalgal fuel. Methods presented.

Publication type: Book chapter

Record Number: 20123375153

Author Affiliation: Defence Research Laboratory, Tezpur 784 001, Assam, India.

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This chapter examines the current state of the art, the production costs, the supporting policies and the challenges for advanced biofuel technologies and practices. The chapter discusses the production of ethanol, biodiesel, and other liquid and gaseous biofuels, including: algal biofuels, biomethanol, butanol, dimethyl ether, biogas, biosynthetic natural gas, and hydrogen.

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This chapter discusses the potential of using algae for biodiesel production, present perspective of promoting microalgal fuel, as well as the economics of microalgal fuel. Methods for the mass cultivation of microalgae are also presented.

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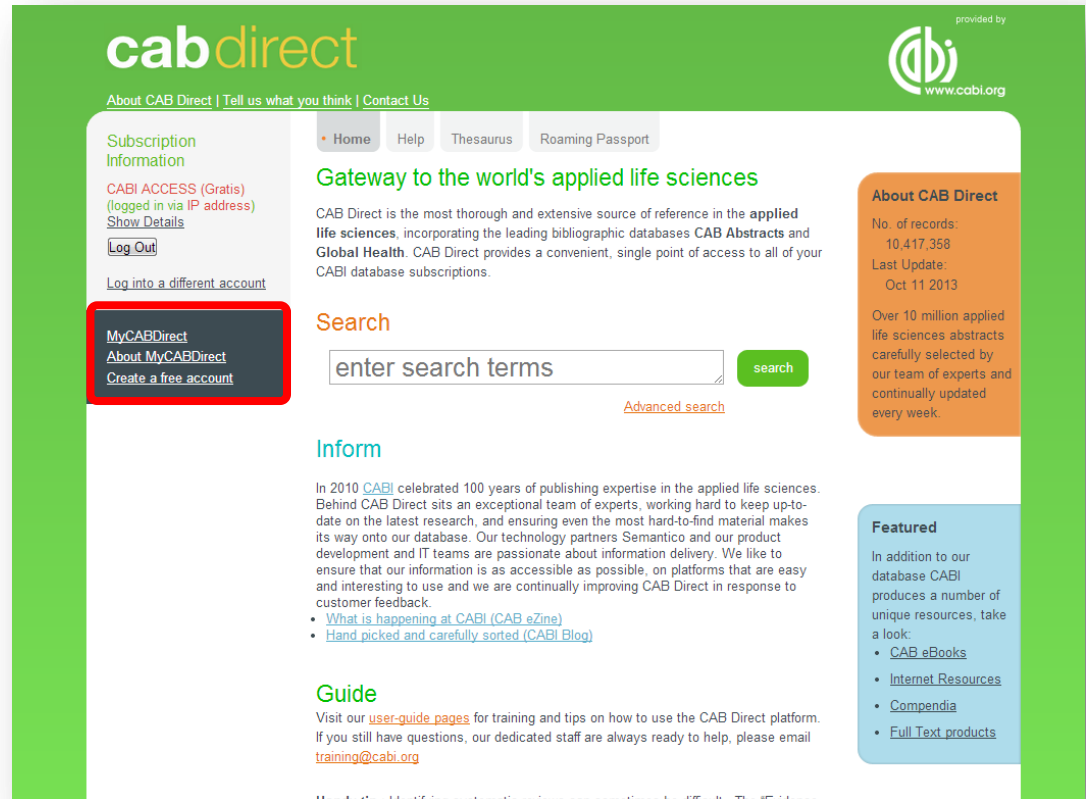
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★1 **Biofuels from microalgae.** Barbosa, M. J.; Wijffels, R. H.; Richmond, A.; Hu, Q.; John Wiley & Sons, Chichester, UK, **Handbook of microalgal culture: applied phycology and biotechnology**, 2013, Ed.2, pp 566-577, many ref.

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★2 **Microalgae: a renewable source of bioproducts.** Blackburn, S. I.; Volkman, J. K.; Dunford, N. T.; John Wiley & Sons, Chichester, UK, **Food and industrial bioproducts and bioprocessing**, 2012, pp 221-241, many ref.

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★3 **Integrated biorefinery for sustainable production of fuels, chemicals, and polymers.** Yang ShangTian; Yu MingRui; Yang, S. T.; El-Enshasy, H. A.; Thongchul, N.; John Wiley & Sons, Inc, Hoboken, USA, **Bioprocessing technologies in biorefinery for sustainable production of fuels, chemicals, and**

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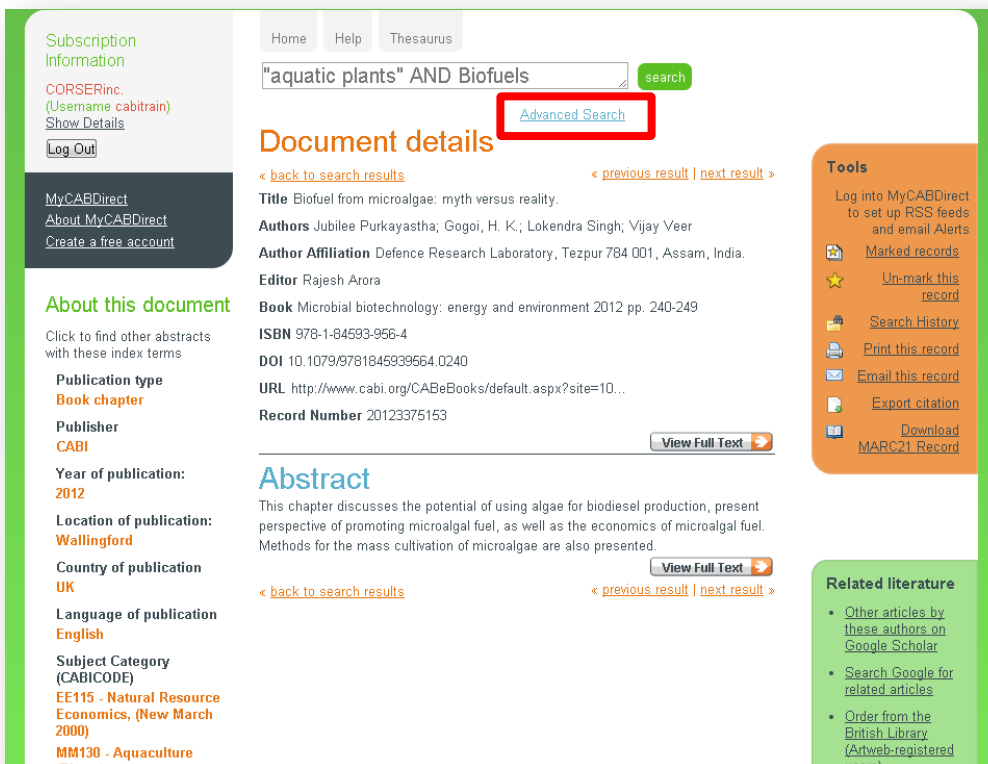
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- Abstract:** Summarizes the chapter's content, discussing the potential of using algae for biodiesel production, the perspective of promoting microalgal fuel, and methods for the mass cultivation of microalgae. A "View Full Text" button is also present.
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★ 1 Trade-off between flight and reproduction in the African armyworm moth, *Spodoptera exempta*. Gunn, A.; Gatehouse, A. G.; Woodrow, K. P.; *Physiological Entomology*, 1989, 14, 4, pp 419-427, 24 ref.

The existence of a trade-off between flight and reproduction in the migratory noctuid *Spodoptera exempta* was examined in experiments in which female moths were flown on flight balances and then provided with distilled water or sucrose solution. For individuals flight-tested from the night


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★ 2 Effects of the availability of food and water on reproduction in the African armyworm, *Spodoptera exempta*. Gunn, A.; Gatehouse, A. G.; *Physiological Entomology*, 1985, 10, 1, pp 53-63, 32 ref.

Females of *Spodoptera exempta* required access to water to achieve hydration and

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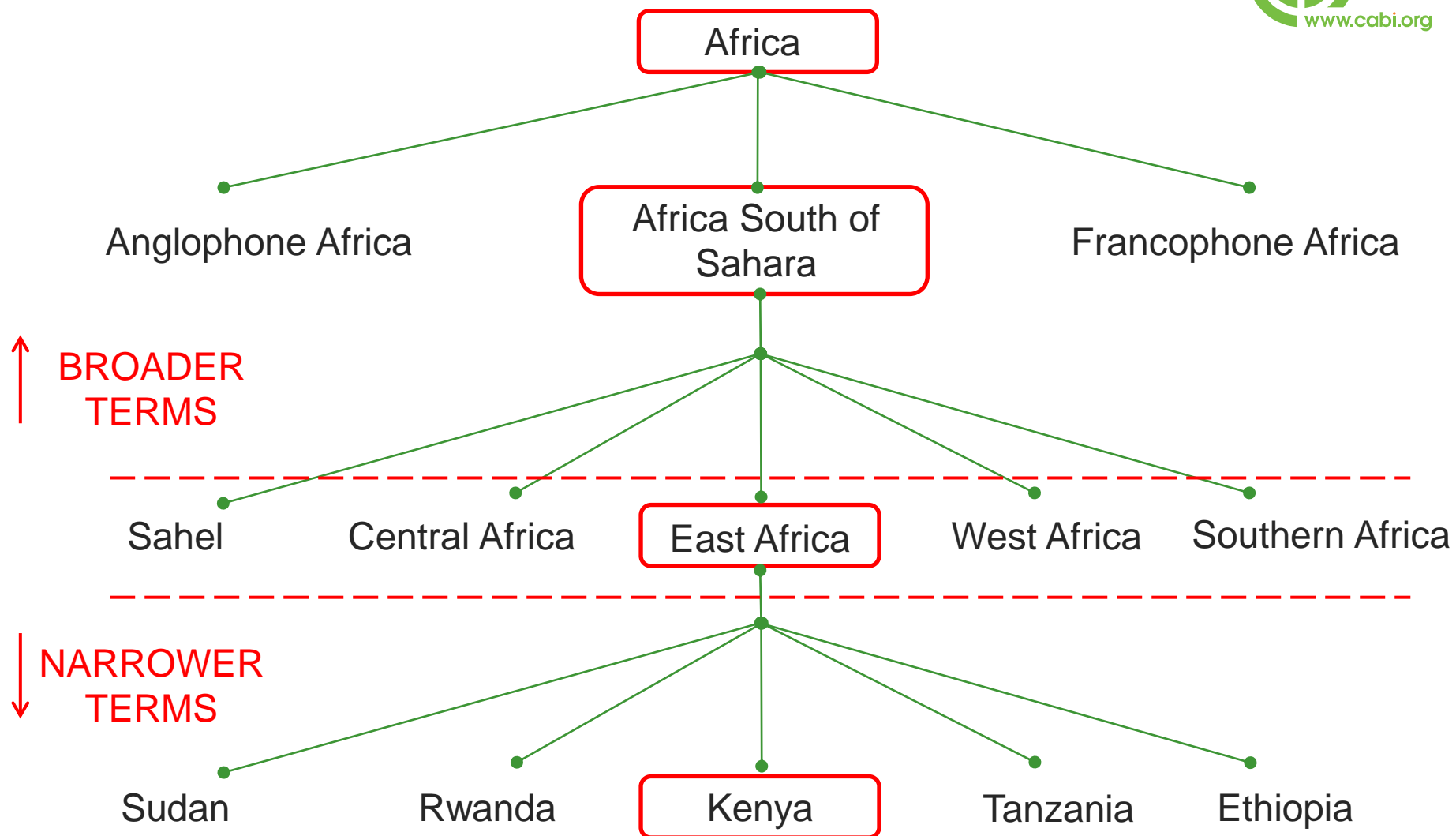
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- Broad, narrow and related terms to help users find relevant terminology
- Cross-references from non-preferred synonyms to preferred terms
- Multi-lingual, with Dutch, Portuguese and Spanish equivalents for most English terms, plus organism names in Danish, Finnish, French, German, Italian, Norwegian and Swedish
- American and British spelling variants
- Relevant CAS registry numbers for chemicals
- Commission notation for enzymes

About CABI

CABI is a not-for-profit science-based development and information organization. We improve people's lives by providing information and applying scientific expertise to solve problems in agriculture and the environment. Our mission and direction is

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- Controlled vocabulary for indexing terms
- Hierarchical structure
- Searchable database for easy referencing
- Multilingual resource covering 11 languages

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The CAB Thesaurus is the essential search tool for all users of the CAB ABSTRACTS™ and Global Health databases and related products. The CAB Thesaurus is not only an invaluable aid for database users but it has many potential uses by individuals and organizations indexing their own information resources for both internal use and on the Internet

Its strengths include:

- Controlled vocabulary that has been in constant use since 1983
- Regularly updated (current version released September 2012)
- Broad coverage of pure and applied life sciences, technology and social sciences
- Approximately 250,200 terms, including 139,300 preferred terms and 110,900 non-preferred terms
- Specific terminology for all subjects covered
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"Atlantic Ocean" OR "Developing
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Subject Category

- AB Animal Breeds
- AM Anatomical and Morphological Structures
- AT Activities Terms
- BG Biogeographic Units
- CH Chemicals and Chemical Groups
- CL Climate Terms
- CO Commodities
- DS Disciplines, Occupations and Industries
- DT Disease Terms
- GE Geographic Entities
- HT Habitat Terms
- IN Infrastructure Terms
- IO Institutions and Organisations Terms
- LA Languages Terms
- MI Miscellaneous Terms
- OG Organism Groups
- ON Organism Names
- PE Persons
- PG People Groups

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Technical Categories

- ABB Abbreviation
- COM Common Name (Organisms)
- HOM Homograph
- P Plural Form
- POP Popular Name
- R Registered Name
- RN Registry or Code Number
- S Singular Form
- SCI Scientific Name (Organisms)
- STD Standard Name (Chemicals)
- TRD Trade Name (Commodities)

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Africa

Subject Category

GE Geographic Entities

Narrower Term

Africa South of Sahara

Anglophone Africa

Francophone Africa

North Africa

Portuguese Speaking Africa

Related Term

Afrotropical Region

Atlantic Ocean

Developing Countries

Indian Ocean

tropical Africa

Nederlands

Afrika

Português

África

Español

África

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Africa [add](#)

Subject Category

GE Geographic Entities

Narrower Term

Africa South of Sahara [add](#)

Anglophone Africa [add](#)

Francophone Africa [add](#)

North Africa [add](#)

Portuguese Speaking Africa [add](#)

Related Term

Afrotropical Region [add](#)

Atlantic Ocean [add](#)

Developing Countries [add](#)

Indian Ocean [add](#)

tropical Africa [add](#)

Nederlands

Afrika

Português

África

Español

África

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CAB Abstracts

We have covered...

- Navigating the interface and performing simple site searches
- Refine searches using facets
- Exporting records
- MyCABDirect – saving searches, records and creating alerts
- Advanced field searching and field tags
- CABI specific indexing codes
- Building complex searches with CAB Thesaurus

Thank you

Any Questions?

For more information on CABI training
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