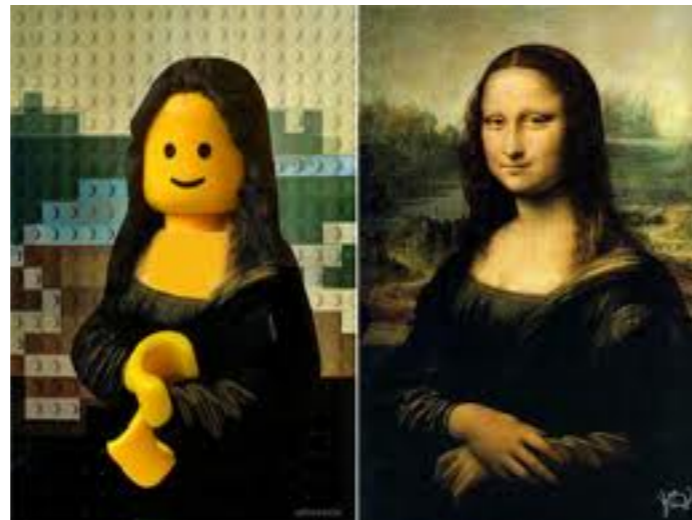
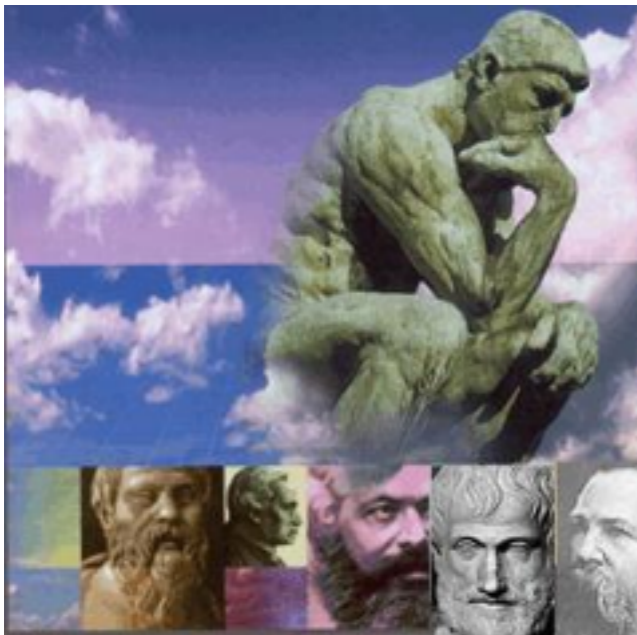


pppst.com

Fundamentos de Metodologia Científica

Profa. Maria Carolina Soares
carolina.soares@ufjf.edu.br

Quais os tipos de conhecimento?



Quais os tipos de conhecimento?

Superficial

Profundo

Sensitivo

Empírico

Subjetivo

Objetivo

Assistemático

Sistemático

Crítico

Acrítico

Verificável

Não verificável

Infalível

Falível

Razão

Emoção

Quais os tipos de conhecimento?

Superficial

Profundo

Sensitivo

Empírico

Subjetivo

Objetivo

Assistemático

Sistemático

Crítico

Acrítico

Verificável

Não verificável

Infalível

Falível

Razão

Emoção

○ conhecimento científico



O conhecimento científico

- Ciência Moderna, empírica, séc. XVII
- Empírico: concreto e observável
- Conhecimento é provisório
- Relações entre universo e suas partes:
leis e fenômenos

○ conhecimento científico

- Conjunto de atitudes e atividades racionais, dirigidas ao sistemático conhecimento com objeto limitado, capaz de ser submetido à verificação.

○ conhecimento científico

"We live in a scientific age, yet we assume that knowledge of science is the prerogative of only a small number of human beings, isolated and priestlike in their laboratories. This is not true. The materials of science are the materials of life itself. Science is part of the reality of living; it is the way, the how and the why for everything in our experience."

Rachel Carson



"Nós vivemos em uma era científica, ainda que assumimos que o conhecimento da ciência é prerrogativa de apenas um pequeno grupo de seres humanos, isolados como sacerdotes em seus laboratórios. Isto não é verdade. Os materiais da ciência são os materiais da própria vida. Ciência é parte da realidade da vida; é o caminho, o como e o porquê de tudo na nossa experiência."

○ conhecimento científico



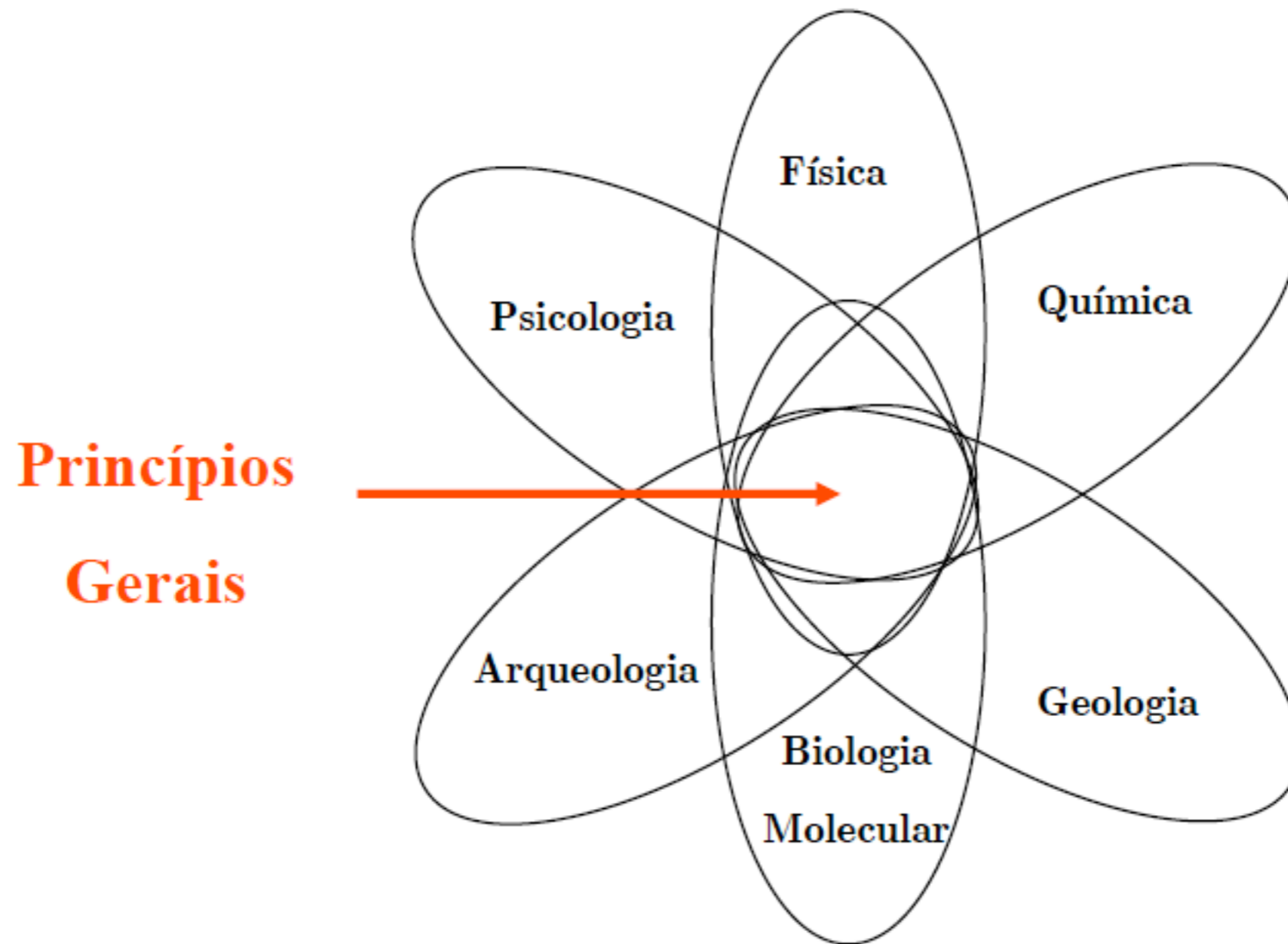
A pesquisa científica

- Conjunto de procedimentos sistemáticos, baseados no raciocínio lógico, que tem por objetivo encontrar soluções para os problemas propostos mediante o emprego do método científico

A pesquisa científica

- Institutos de Pesquisa
- Universidades
 - Graduação
 - Pós-graduação
 - Especialização
 - Mestrado (Profissionalizante ou Acadêmico)
 - Doutorado
 - Pós-Doutorado

○ método científico



**Princípios
Gerais**

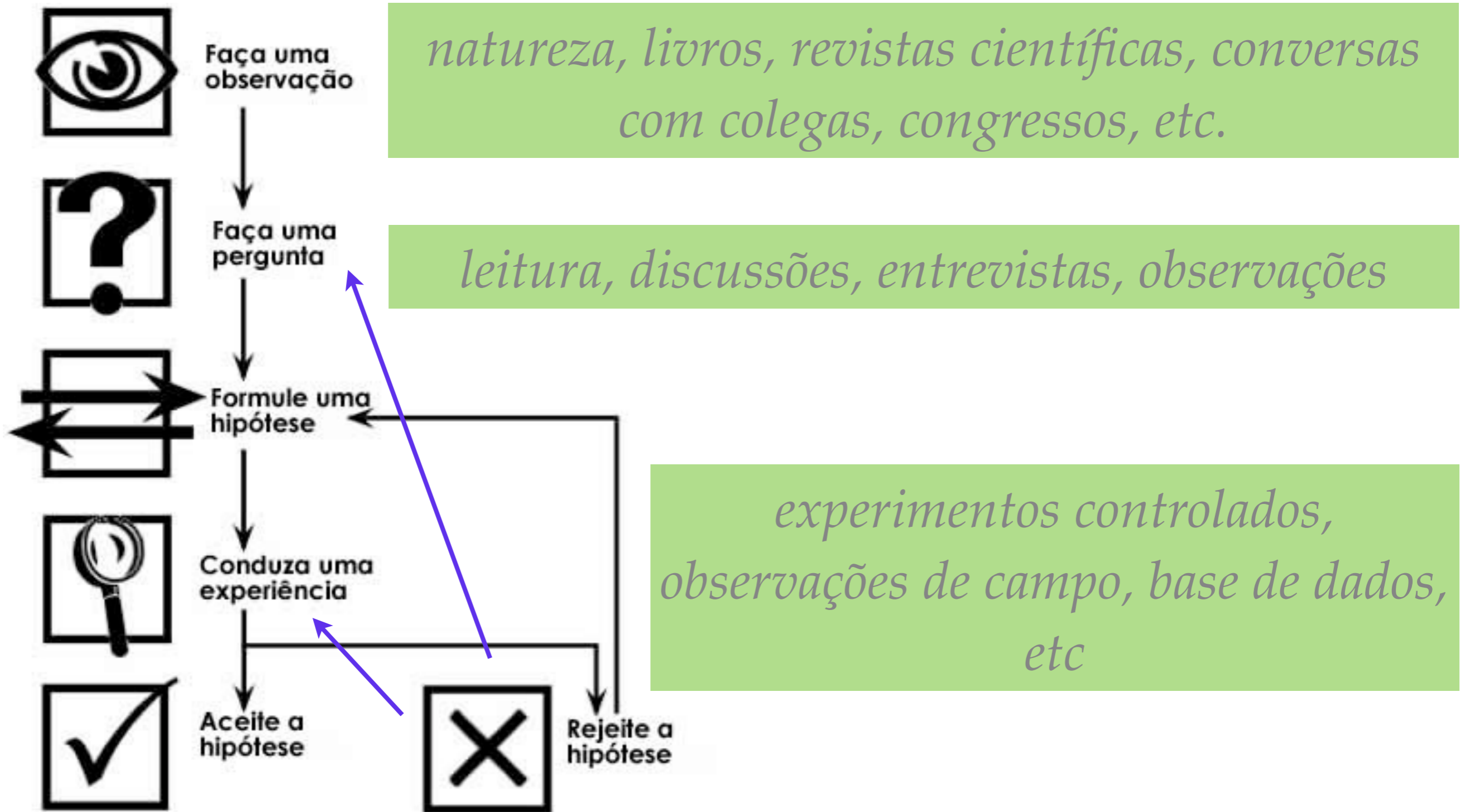
○ método científico

- Conjunto de abordagens, técnicas e processos utilizados pela ciência para formular e resolver problemas de aquisição objetiva do conhecimento, de maneira sistemática.

○ método científico



○ método científico



○ método científico



Comunicação científica!!!!

A comunicação científica

Canais Formais



Canais Informais



A comunicação científica

Canais Informais - Blogs

The image shows a screenshot of a web browser displaying a TED talk page. The browser's address bar shows the URL: www.ted.com/talks/e_o_wilson_on_saving_life_on_earth.html?quote=115. The page title is "TALKS E.O. Wilson calls for an Encyclopedia of Life". A quote from E.O. Wilson is displayed: "Each of these [bacterial] species are masterpieces of evolution. Each has persisted for thousands to millions of years. Each is exquisitely adapted to the environment in which it lives, interlocked with other species to form ecosystems upon which our own lives depend in ways we have not begun even to imagine." (E.O. Wilson). Below the quote are buttons for "Play (from 14:28)" and "Share quote". The video player shows E.O. Wilson speaking, with a subtitle "I HAVE A DREAM" and a language selection menu. The video has 514,031 views and 2.5k likes. The page also features a "RELATED PLAYLISTS" section with a video titled "Insects are awesome!" and a "TED CONVERSATIONS" section at the bottom.

Chrome File Edit View History Bookmarks Window Help 17 (100%) seg 19:28 mcarols

T E.O. Wilson calls for an Enc. x

www.ted.com/talks/e_o_wilson_on_saving_life_on_earth.html?quote=115

TALKS
E.O. Wilson calls for an Encyclopedia of Life

“Each of these [bacterial] species are masterpieces of evolution. Each has persisted for thousands to millions of years. Each is exquisitely adapted to the environment in which it lives, interlocked with other species to form ecosystems upon which our own lives depend in ways we have not begun even to imagine.” (E.O. Wilson)

▶ Play (from 14:28) Share quote

FILMED MAR 2007 • POSTED APR 2007 • TED2007

514,031 Views 2.5k Like

As E.O. Wilson accepts his 2007 TED Prize, he makes a plea on behalf of all creatures that we learn more about our biosphere – and build a networked encyclopedia of all the world’s knowledge about life.

Biologist E.O. Wilson explores the world of ants and other tiny creatures, and writes movingly about the way all creatures great and small are interdependent. [Full bio »](#)

OFFICIAL AIRLINE OF TED

RELATED PLAYLISTS **NEW** View more »

Insects are awesome!
Curated by TED
Bugs! Some say they’re a nuisance, but we think they’re a wonder. These insect-obsessed speakers share how ants form societies, how bees pollinate...

TED CONVERSATIONS
Got an idea, question, or debate inspired by this talk? [Start a TED Conversation.](#)

A comunicação científica

Canais Informais - Revistas de Divulgação Científica



A comunicação científica

Canais Formais - Livros



bookmarks Window Help 17:05 (54%) seg 17:05 mc

Buscar

Som de Domingo estreia com sucesso no Campus

19 de maio de 2013



Nem mesmo o mau tempo embaçou o sucesso do projeto Som de Domingo em sua primeira edição, na manhã deste domingo, 19, oferecendo à comunidade acadêmica e à sociedade em geral uma programação diversificada e de qualidade. Estreando na concha acústica da Praça Cívica, subiram ao palco o Coral da Universidade, a banda Trupicada e [...]

17 de maio de 2013



Candidatos ao Proquali devem ficar atentos às datas do programa

Inscrições para Universalização em Língua Estrangeira terminam hoje

20 de maio de 2013



Hoje é o último dia para que servidores efetivos, alunos de pós-graduação de cursos gratuitos e estudantes da Educação a Distância (EAD) da Universidade Federal de Juiz de Fora (UFJF) se inscrevam no programa de Universalização da Oferta da Língua Estrangeira (PU). Os interessados podem comparecer à sala de coordenação do PU, localizada no [...]

17 de maio de 2013



alternativa

Gincana da Engenharia mobiliza calouros e veteranos com programação

17 de maio de 2013



Estão abertas as inscrições para o Mestrado em Ciências Farmacêuticas

17 de maio de 2013

Organização

- Colegiados Superiores
- Reitoria
- Pró-Reitorias
- Secretarias
- Unidades Acadêmicas
- Órgãos Suplementares
- Procuradoria Federal

Utilidades

- Comprovante de Rendimentos
- Agenda telefônica
- Atendimento psicológico

3ª CORRIDA E CAMINHADA DA UFJF
25 e 26 de maio
clique para mais informações
Anterior Próximo

PROGRAMAS DE INGRESSO
PISM

CONCURSO PARA
DOCENTES

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youtube.com/tvufjf

A comunicação científica

Canais Formais - Banco de teses e dissertações Capes

The image is a screenshot of a web browser displaying the 'Banco de Teses' page on the Capes website. The browser's address bar shows the URL 'www.capes.gov.br/servicos/banco-de-teses'. The page header includes the Capes logo and the text 'Coordenação de Aperfeiçoamento de Pessoal de Nível Superior'. A search bar with the text 'pesquisar...' and a 'Buscar' button is located in the top right. A navigation menu on the left lists various services, with 'Banco de Teses' highlighted. The main content area is titled 'Banco de Teses' and contains the following text:

Objetivo:
Facilitar o acesso a informações sobre teses e dissertações defendidas junto a programas de pós-graduação do país. O Banco de Teses faz parte do [Portal de Periódicos](#) da Capes/MEC.

Como funciona?
Para este trabalho, a Capes disponibiliza ferramenta de busca e consulta:

➔ [Resumos](#)
Relativos a teses e dissertações defendidas a partir de 1987. As informações são fornecidas diretamente à Capes pelos programas de pós-graduação, que se responsabilizam pela veracidade dos dados.

A ferramenta permite a pesquisa por autor, título e palavras-chave. O uso das informações da referida base de dados e de seus registros está sujeito às leis de direito autorais vigentes.

A comunicação científica

Canais Formais - Anais em eventos científicos



A comunicação científica

Congressos e eventos científicos



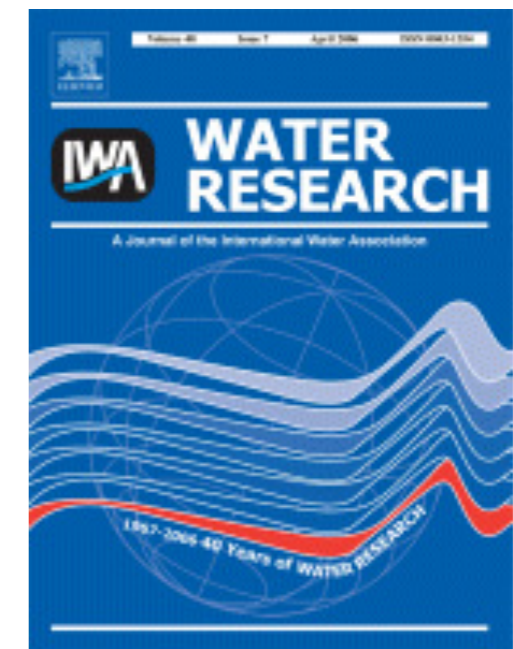
A comunicação científica

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A comunicação científica

Canais Formais - *As revistas científicas*



A comunicação científica

Canais Formais - As revistas científicas



Literatura cinza

A comunicação científica

Canais Formais - As revistas científicas

The image shows a screenshot of a web browser displaying the CAPES Periodicals Portal. The browser's address bar shows the URL: www-periodicos-capes-gov-br.ez25.periodicos.capes.gov.br/index.php?option=com_phome. The page features a navigation menu with options like 'PÁGINA INICIAL', 'INSTITUCIONAL', 'ACERVO', 'BUSCA', 'NOTÍCIAS', and 'SUPORTE'. The main content area is divided into several sections:

- Search Options:** Four search sections are visible: 'Buscar assunto', 'Buscar periódico', 'Buscar livro', and 'Buscar base'. Each section includes a text input field for 'Inserir termo', a 'BUSCAR' button, and a link for 'Busca avançada'. The 'Buscar base' section also includes a 'Visualizar' link.
- Image:** A photograph of a woman sitting on the grass in a park, using a laptop. The caption below reads: 'Talita acessa o Portal de Periódicos do Parque Olhos D'água, em Brasília'.
- News and Collections:** Three columns of text provide updates: 'Notícias' (news), 'Coleções' (collections), and 'Treinamentos' (trainings). The 'Treinamentos' section lists training events for UFAM and UFMT.

A comunicação científica

Canais Formais - As revistas científicas

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Portal .periodicos. CAPES Web of Knowledge [v.5.10]

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Web of Science[®]

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in

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AND in

Example: O'Brian C OR OBrian C**
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All years (updated 2013-05-17)

From to (default is all years)

Records processed from to

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Arts & Humanities Citation Index (A&HCI) –1975-present

Conference Proceedings Citation Index Science (CPCI-S) –1990-present

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A comunicação científica

Canais Formais - As revistas científicas

The image shows a screenshot of a web browser displaying the Scopus website. The browser's address bar shows the URL www-scopus-com.ez25.periodicos.capes.gov.br/home.url. The page features a navigation menu with links for Search, Sources, Analytics, Alerts, My list, and Settings. The main content area is titled "Document search" and includes a search input field, a dropdown menu for search criteria (currently set to "Article Title, Abstract, Keywords"), and a "Search" button. Below the search field, there are filters for "Limit to:" including "Date Range (inclusive)" with options for "Published" (All years to Present) and "Added to Scopus in the last 7 days". There are also "Subject Areas" filters for Life Sciences, Health Sciences, Physical Sciences, and Social Sciences & Humanities. A "Resources" sidebar on the right contains links for adding papers to ORCID, following Scopus on Twitter, accessing training videos, learning about alerts and registration, seeing recent feature enhancements, and viewing known issues. At the bottom, a "Search history" section shows a table with columns for Search, Results, Set feed, Set alert, Save, Edit, and Delete, and a message stating "You have not performed any searches in this session."

A comunicação científica

Canais Formais - As revistas científicas

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Portal .periodicos. CAPES x SciELO - Scientific Electron x

www.scielo.com.br

SciELO
Scientific Electronic Library Online

SciELO.org
journals evaluation

Português
Español

help
about this site
SciELO team

serial browsing	article browsing	reports
alphabetic list subject list search form	author index subject index search form	site usage journal citation co-authors

SciELO The Scientific Electronic Library Online - SciELO is an electronic library covering a selected collection of Brazilian scientific journals.

The library is an integral part of a project being developed by FAPESP - Fundação de Amparo à Pesquisa do Estado de São Paulo, in partnership with BIREME - the Latin American and Caribbean Center on Health Sciences Information. Since 2002, the Project is also supported by CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico.

The Project envisages the development of a common methodology for the preparation, storage, dissemination and evaluation of scientific literature in electronic format.

As the project develops, new journal titles are being added in the library collection.

about this site This is the home page of SciELO Brasil Site.

The objective of the site is to implement an electronic virtual library, providing full access to a collection of serial titles, a collection of issues from individual serial titles, as well as to the full text of articles. The access to both serial titles and articles is available via indexes and search forms.

SciELO site is an integral part of the FAPESP/BIREME/CNPq Project and it is an application of the methodology being developed by the project, particularly the Internet Interface module.

The site will be constantly updated both in form and content, according to the project's advancements.

A comunicação científica

Canais Formais - As revistas científicas



1. Resumo
2. Introdução
3. Material e métodos
4. Resultados e discussão
5. Conclusões
6. Referências Bibliográficas

A comunicação científica

Canais Formais - *As revistas científicas*

6. Referências Bibliográficas

Citações
Referências

A comunicação científica

Canais Formais - As revistas científicas

Introduction

Nutrient enrichment in aquatic systems caused by human activities (eutrophication) is one of the most serious problems related to water conservation. This increase, which is caused especially by phosphorus and nitrogen, has many consequences in aquatic food-webs, water-related disease, the occurrence of harmful algal blooms (HABs) and many other direct and indirect effects on water quality (Smith and Schindler 2009). Cyanobacteria (also known as

blue-green algae) are the most common HABs in freshwater systems. These organisms can produce potent toxins that can affect aquatic organisms, but also mammals (Chorus and Bartram 1999). As well as increases in nutrients, changes in temperature and mixing regime are important factors related to these blooms (Paerl and Huisman 2008). Moreover, Cyanobacteria are sensitivity to flushing rate (Elliot 2010) and high phytoplankton biomass has been associated with high retention time (Jones and Elliott 2007). An increase in retention time can also promote earlier and longer blooms (Jones and Elliott 2007). Despite this important relationship, few studies combine analysis of hydrology with biological responses (Kentzer et al. 2010).

The structure and dynamics of biological communities in reservoirs are directly related to the magnitude of the river-lake gradient and the consequent availability of resources along this axis.

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doi:10.1016/j.limno.2011.11.002

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**CENTRO DE DIFUSÃO DO CONHECIMENTO
GERÊNCIA DE ATENDIMENTO AO USUÁRIO**

FORMATOS DE REFERÊNCIAS¹ (NBR 6023/2002)

A) LIVROS NO TODO

AUTOR. **Título**: subtítulo. X e.d. Cidade: Editora, data. X p. ou X v. (Nome da série, n. X).

A comunicação científica

Canais Formais - As revistas científicas

The screenshot shows the Mendeley Desktop interface. The main window displays a list of documents under 'All Documents'. The selected document is 'Changes in species composition during annual cyanobacterial dominance in a tropical reservoir: physical factors, nutrients and grazing effects' by M. Soares, M. de A Rocha, M. Marinho et al., published in 2009 in *Aquatic Microbial Ecology*. The details panel on the right shows the full title, authors, journal name, year, volume, issue, and pages. The abstract is also visible.

Authors	Title	Year	Published In	Added
	Control and prevention of cyanobacterial blooms	2007		10/11/12
Loureiro, S.; Garc...	Effect of marine autotrophic dissolved organic matter (DOM) on Alexandrium c...	2009	Journal of Plankton R...	10/11/12
Gliwicz, Z Maciej; ...	Food Thresholds in Daphnia Species in the Absence and Presence of Blue-Gre...	1990		10/11/12
Wu, Zhongxing; S...	Different tolerances and responses to low temperature and darkness between wat...	2008		10/11/12
Albay, Meriç; Akç...	Factors influencing the phytoplankton steady state assemblages in a drinking...	2003	Hydrobiologi...	10/11/12
Naselli-flores, Luigi	Man-made lakes in Mediterranean semi-arid climate : the strange case of Dr De...	2003	Hydrobiologi...	10/11/12
Sun, J U N; Liu, Do...	Geometric models for calculating cell biovolume and surface area for phytopl...	2003		10/11/12
Isva, Vera	Growth and phosphate uptake kinetics of the cyanobacterium , Cylindrospermop...	2000		10/11/12
Raps, Shirley; Wy...	Adaptation of the Cyanobacterium Microcystis aeruginosa to Light Intensity*	1983		10/11/12
Beyruth, Z	Periodic disturbances , trophic gradient and phytoplankton characteristics relat...	2000		10/11/12
Soares, MCS; de ...	Changes in species composition during annual cyanobacterial dominance in a tr...	2009	Aquatic Microbial E...	10/11/12
Fernandes, Valéri...	ECOLOGIA DE CIANOBACTÉRIAS : FATORES PROMOTORES E CONSEQUÊNC...	2009		10/11/12
Shen, Hong; Song...	Comparative studies on physiological responses to phosphorus in two phenot...	2007		10/11/12
Thi, Lien; Nguyen...	Planktic cyanobacteria from freshwater localities in Thuathien-Hue province , V...	2007		10/11/12
Naselli-Flores, L.	Phytoplankton assemblages in reservoirs: is it chemical or physical constraints wh...	1998	International Review of ...	10/11/12
Geng, Hong; Xie, ...	Experimental studies on the effects of toxic Microcystis aeruginosa PCC7820 ...	2008	Ecotoxicology (London, E...	10/11/12
Toxicidade, Distri	DE CIANOBACTÉRIAS NO ESTUÁRIO DA			10/11/12

Details

Type: Journal Article

Changes in species composition during annual cyanobacterial dominance in a tropical reservoir: physical factors, nutrients and grazing effects

Authors: M. Soares, M. de A Rocha, M. Marinho et al.

View research catalog entry for this paper

Journal: *Aquatic Microbial Ecology*

Year: 2009

Volume: 57

Issue:

Pages: 137-149

Abstract:

Tags:

Keywords: anabaena; cyanobacterial bloom; cylindrospermopsis; microcystis; of the publisher; permitted without written consent; resale or republ...

URL: <http://www.int-res.com/abstracts/ame/v57/n...>

Add URL...

Catalog IDs

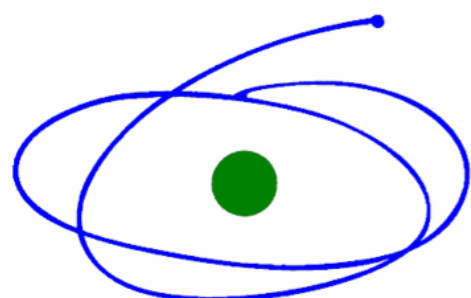
A pesquisa científica na UFJF



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Estado de Minas Gerais

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A pesquisa científica na UFJF

ProPesq | Pró-Reitoria
de Pesquisa

Programas de Iniciação Científica

1. Programa Qualidade Ambiental

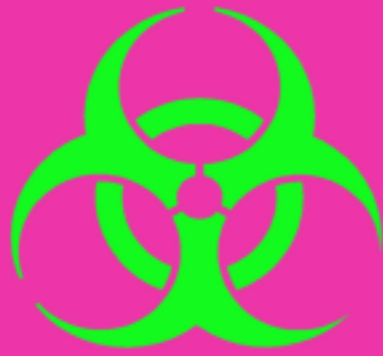
2. BIC

3. PIBIC

4. PROBIC

5. PROBIC/Jr.

6. PROVOQUE



KEEP

CALM

AND

LOVE

SCIENCE



Obrigada!