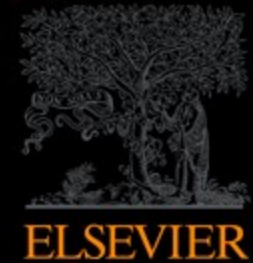




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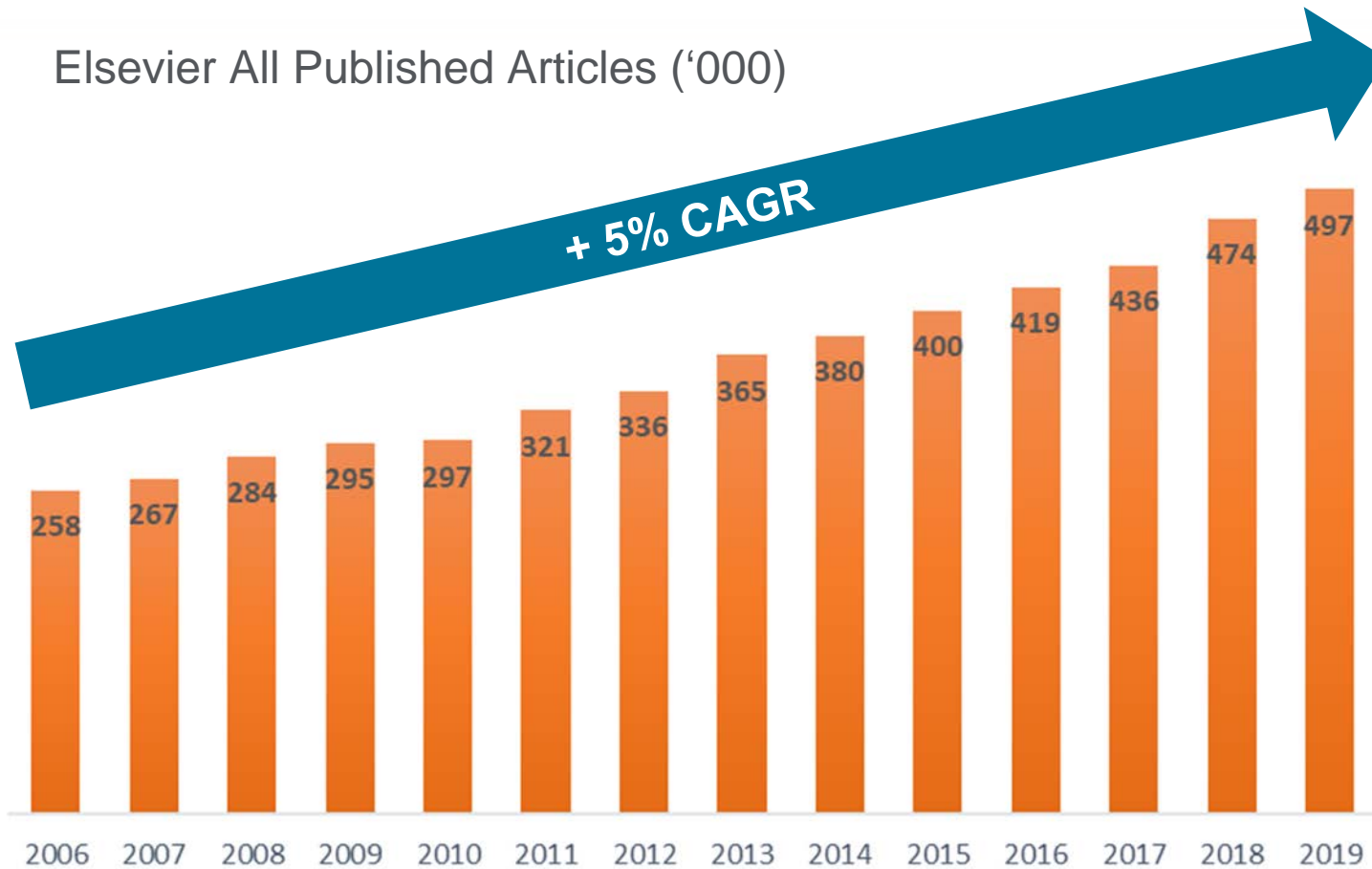
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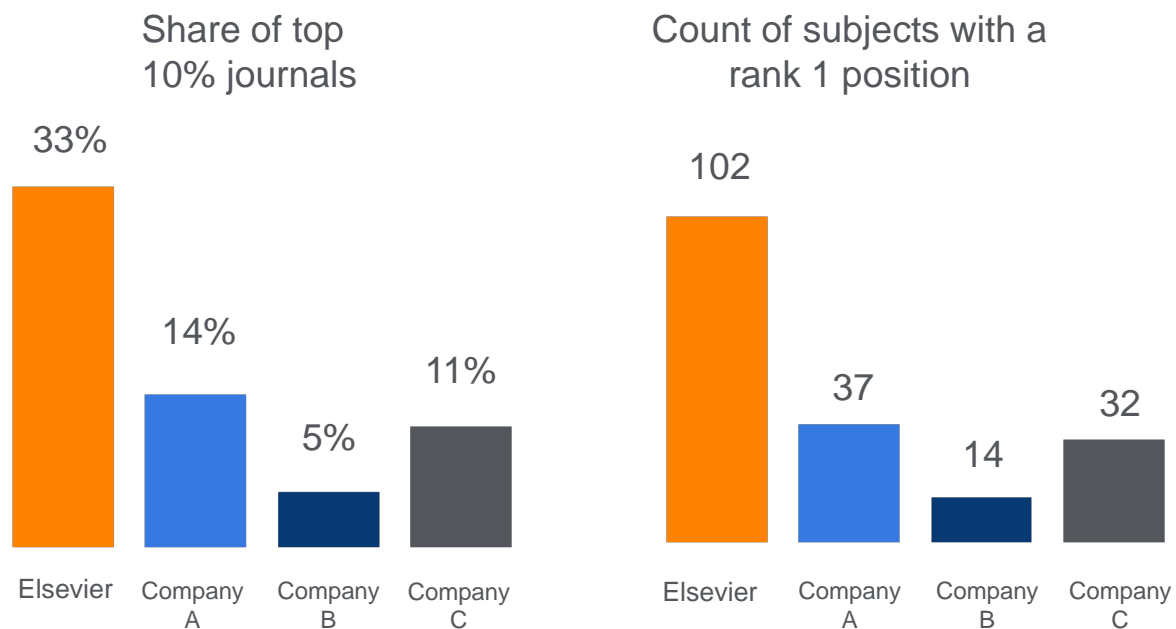
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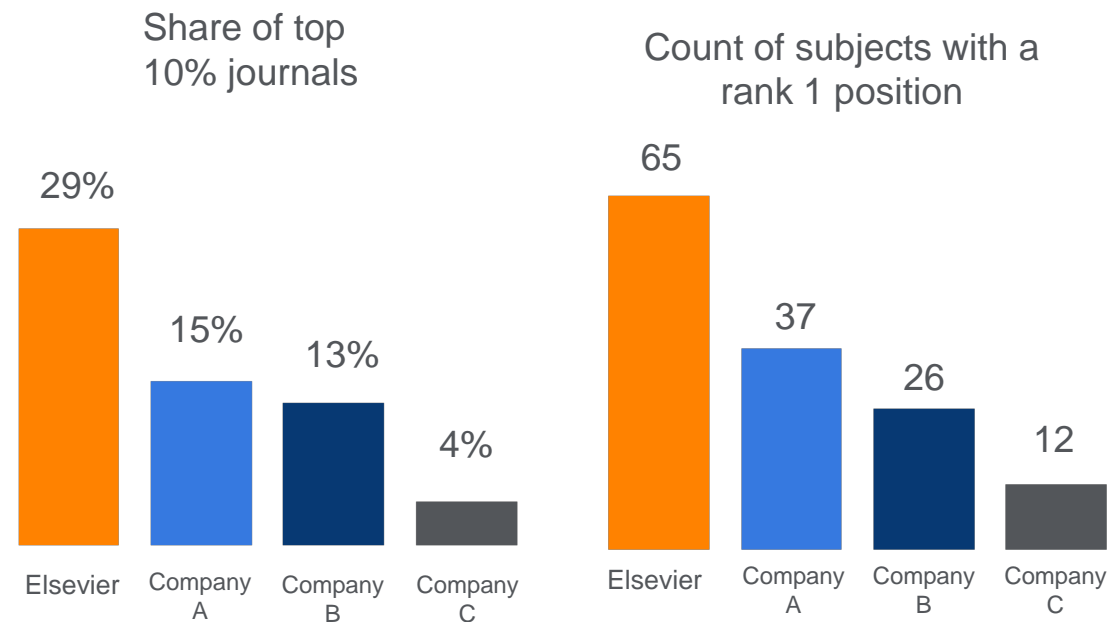
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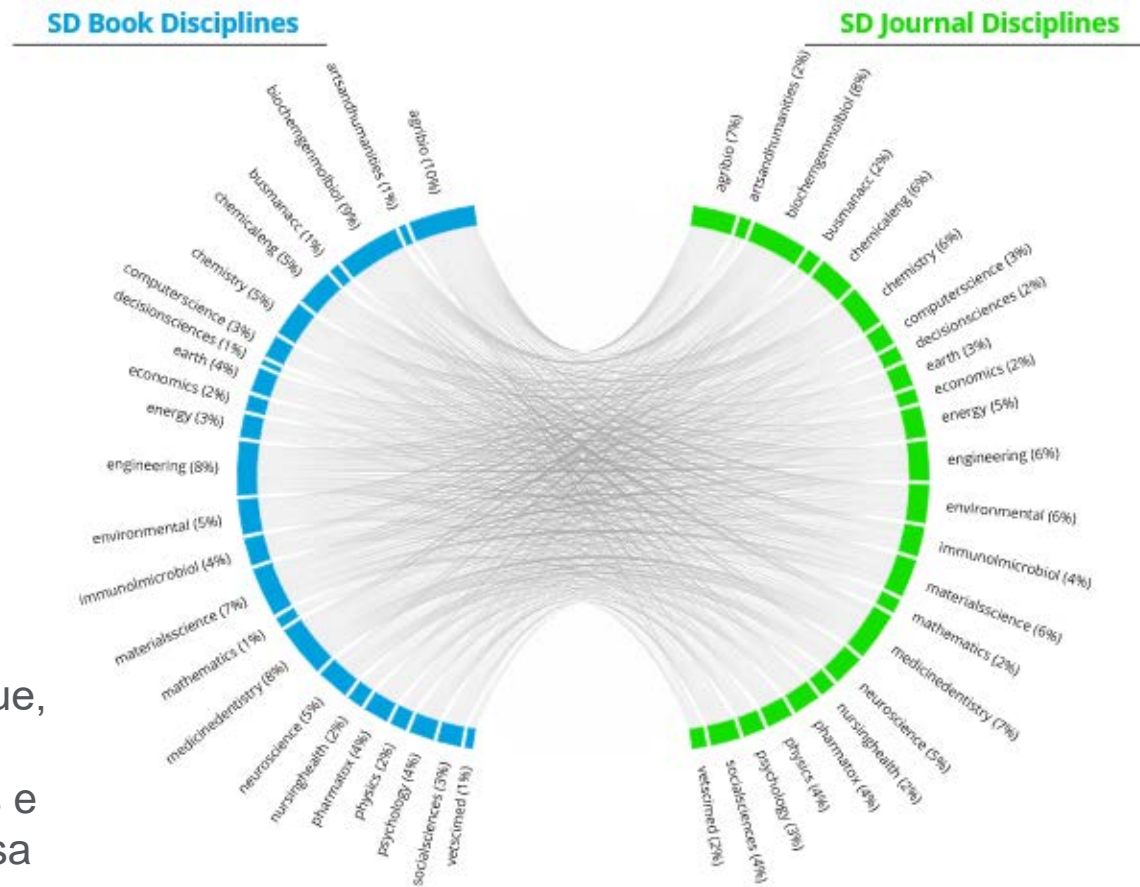
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Volume 77, Issue 1, July 2017, Pages 136-141.e5

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Review

The effectiveness of treatments for androgenetic alopecia: A systematic review and meta-analysis

Areej Adil BSc, Marshall Godwin MSc, MD 

Background

Androgenetic alopecia, or male pattern **hair loss**, is a hair loss disorder mediated by **dihydrotestosterone**, the potent form of **testosterone**. Currently, **minoxidil** and **finasteride** are Food and Drug Administration (FDA)-approved, and HairMax LaserComb, which is FDA-cleared, are the only treatments recognized by the FDA as treatments of androgenetic alopecia.

Objective

This systematic review and meta-analysis assesses the efficacy of **nonsurgical treatments** of androgenetic alopecia in comparison to placebo for improving hair density, thickness, growth (defined by an increased **anagen** telogen ratio), or subjective global assessments done by patients and investigators.

Hair Loss

Hair loss is currently one of the most common “problems” dealt with by NHP behavioral management staff.

From: *Nonhuman Primates in Biomedical Research (Second Edition)*, 2012

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Hair loss in women

Joseph E. Pizzorno ND, ... Herb Joiner-Bey ND, in *The Clinician's Handbook of Natural Medicine (Third Edition)*, 2016

Side effect of drugs

Hair loss concurrent with taking one of the drugs listed in the accompanying table does not indicate that the drug is the sole cause of **hair loss**. For **chemotherapy agents** (e.g., fluorouracil), the link is obvious. When medically appropriate, natural alternatives to suspected culprits should be used.

Diseases of Hair and Nails

Antonella Tosti, in *Goldman's Cecil Medicine (Twenty Fourth Edition)*, 2012

Hair Loss and Alopecias

Hair loss distresses most patients, independently from its severity and pattern. In some cases, the decrement in **quality of life** attributable to **hair loss** is comparable with that caused by major **chronic diseases**.

The first diagnostic step is to assess family history, drug intake, systemic illness, and severity and duration of **hair loss** (Table 450-1). The second step is to establish whether the hair density is normal or

Classes of Drugs that Can Cause Hair Loss

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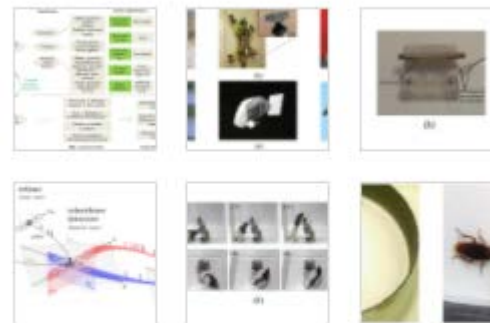
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learn from the biology have then been created. The imitation of animal behaviors has resulted in technological advances that have revolutionized how manmade machines move through air, in water, and over land. The biological world still has much in the way of suggestions for how to build, design, and program biomimetic robot systems whose capabilities will far outpace what is possible today [2].

Relatively, there has been increasing use of biomimetic robots to study animal behaviors in recent years thanks to improved sophistication of robot technology and decreased costs. The use of biomimetic robots instead of living animals for the study is significant in that by ingeniously introducing some techniques, scientists have access to more useful research tools that allow for broader scope of research and easier testing of hypotheses. Besides, biomimetic robots are easier to handle than real animals and their behavioral characteristics can be accurately controlled. Biomimetic robots can also imitate complex experimental phenomena [3], or simplify the research process and reduce the cost of research [4]. Researchers not only control the behaviors of biomimetic robots, but also change their environment at will to make design of experiments more standardized and repeatable to carry out **causal analysis** of experimental phenomena [5]. Therefore, biomimetic robots have been used in much experimental research to mimic animal behaviors in a controlled way to study the focal animal response. In addition, biomimetic robots have been used as modeling tools for studying behavioral mechanisms [6]. It is worth noting that the application of biomimetic robots cannot only facilitate the study of animal behaviors, but also has an important influence on the

 B. Hassenstein, Considerations on the use of models in biology, *Universitas (Stuttg)*, 25 (1983) 275–280.

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Contributions of traditional and HIV-related risk factors on non-AIDS-defining cancer, myocardial infarction, and end-stage liver and renal diseases in adults with HIV in the USA and Canada: a collaboration of cohort studies

Keri N Althoff PhD^{a,*,} Kelly A Gebo MD^{b,} Richard D Moore MD^{b,} Cynthia M Boyd MD^{b,} Amy C Justice MD^{c,*,} Cherise Wong PhD^{d,} Gregory M Lucas MD^{b,} Marina B Klein MD^{e,} Mari M Kitahata MD^{f,} Heidi Crane MD^{f,} Michael J Silverberg PhD^{g,} M John Gill MB^{h,} William Christopher Mathews MD^{i,} Robert Dubrow MD^{i,} Michael A Horberg MD^{j,} Charles S Rabkin MD^{l,} Daniel B Klein MD^{k,} Vincent Lo Re MD^m ... Stephen J Gange^a

Introduction

Adults receiving **antiretroviral therapy** (ART) and ageing with **HIV** have a greater burden of chronic **non-communicable diseases** than do adults without HIV.¹ The increased risk is hypothesised to be the result of a combination of factors, such as the increased prevalence of traditional risk factors for non-communicable diseases in adults with HIV;^{2, 3} the possible synergistic effect of viral coinfection, particularly with **hepatitis C virus**;⁴ HIV-associated **immunosuppression**, immune activation, inflammation, and hypercoagulability⁵ (which is blunted but not normalised with ART);⁶ and ART drugs, including previous exposure to first-generation **nucleoside analogue reverse transcriptase inhibitors** and **protease inhibitors**.⁷ Although some specific antiretroviral drugs have been associated with

Reverse-Transcriptase Inhibitor

NRTIs are structurally defective analogues of viral nucleotides, and, after being incorporated into viral DNA, they prematurely terminate viral strand synthesis and inhibit viral replication.

From: *Cardiovascular Therapeutics (Third Edition)*, 2007

Related terms:

Highly Active Antiretroviral Therapy, Zidovudine, Protease Inhibitor, Tenofovir, Nonnucleoside Reverse Transcriptase Inhibitor, RNA Directed DNA Polymerase, Human Immunodeficiency Virus, Antiretroviral Therapy, Human Immunodeficiency Virus Infection

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Patients with Human Immunodeficiency Virus Infection and Acquired Immunodeficiency Syndrome

B.J. Beck M.S.N., M.D., ... Jonathan L. Worth M.D., in *Massachusetts General Hospital Handbook of General Hospital Psychiatry (Sixth Edition)*, 2010

Nucleoside (and Nucleotide) Reverse Transcriptase Inhibitors

Nucleoside **reverse transcriptase** inhibitors are **nucleoside analogues** that inhibit the action of the enzyme reverse transcriptase. This **enzyme inhibition** slows or prevents **viral replication**. Most of the NRTIs require multiple daily doses, do not interact with other drugs, and can be taken with or without food. Didanosine (ddI), however,

Toxic and Drug-Induced Neuropathies

Guido Cavaletti MD, in *Neurobiology of Disease*, 2007

II. Nucleoside Reverse Transcriptase Inhibitors

Nucleoside reverse transcriptase inhibitors (NRTIs) are a key therapy in human immunodeficiency virus (HIV) infections, and they can cause both axonal degeneration and myelin damage associated with mitochondrial dysfunction.

Drugs such as zalcitabine, didanosine, stavudine, fialuri-dine, and lamivudine (but not zidovudine, which induces myopathy) are associated with largely sensory distal, symmetrical **polyneuropathy** with acute or subacute onset that may be dose limiting [3,6]. Zalcitabine seems to be the most neurotoxic drug within the NRTI family. A typical clinical feature of NRTI **neuropathy** is pain, a

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Gao, Zihang^{a,b}, Shi, Qing^{a,b}, Toshio Fukuda^{a,b}

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An overview of biomimetic robots with animal behaviors

Zihang Gao^{a,b}, Qing Shi^{a,b,*}, Toshio Fukuda^{b,c}, Chang Li^{a,b}, Qiang Huang^{b,c}

^aIntelligent Robotics Institute, School of Mechatronical Engineering, Beijing Institute of Technology, Beijing 100081, China
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ABSTRACT

The study of biomimetic robots and that of animal behaviors are mutually-reinforcing and inseparable. Animals, through long-term evolutionary processes, have developed innate advantages in locomotion, cognition, information processing and control. Inspired by their evolution, biomimetic robots are integrated with biological characteristics which give them more powerful motor abilities, cognitive abilities and more delicate control processes than other robots. At the same time, the development of biomimetic technology and the excellent interaction characteristics of biomimetic robots also promote the study

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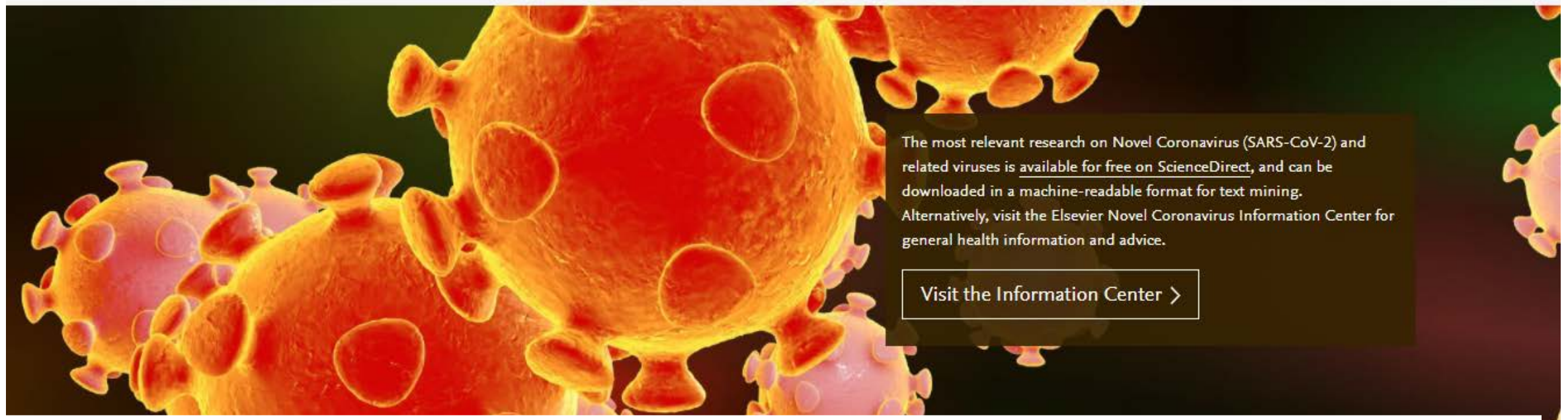
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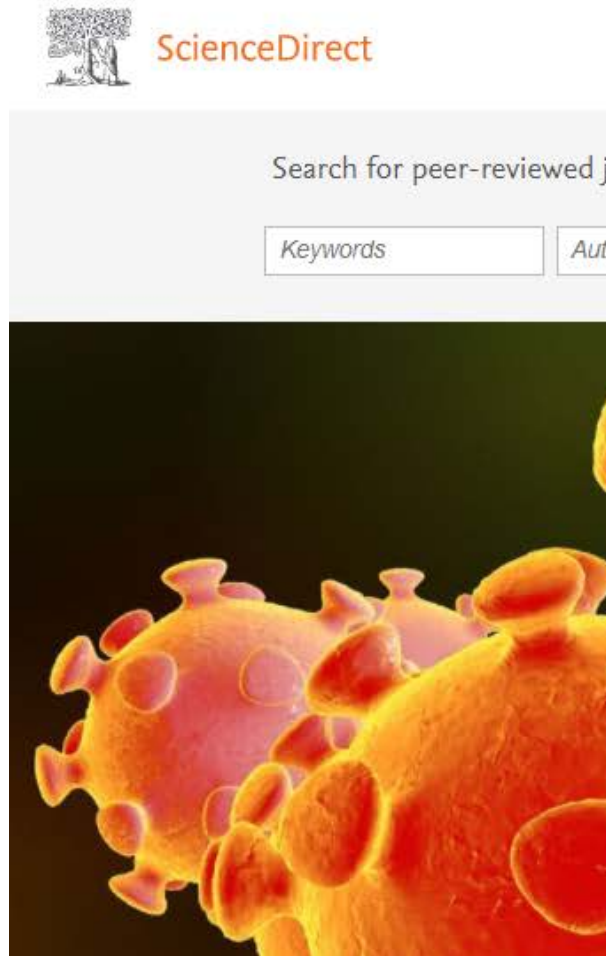
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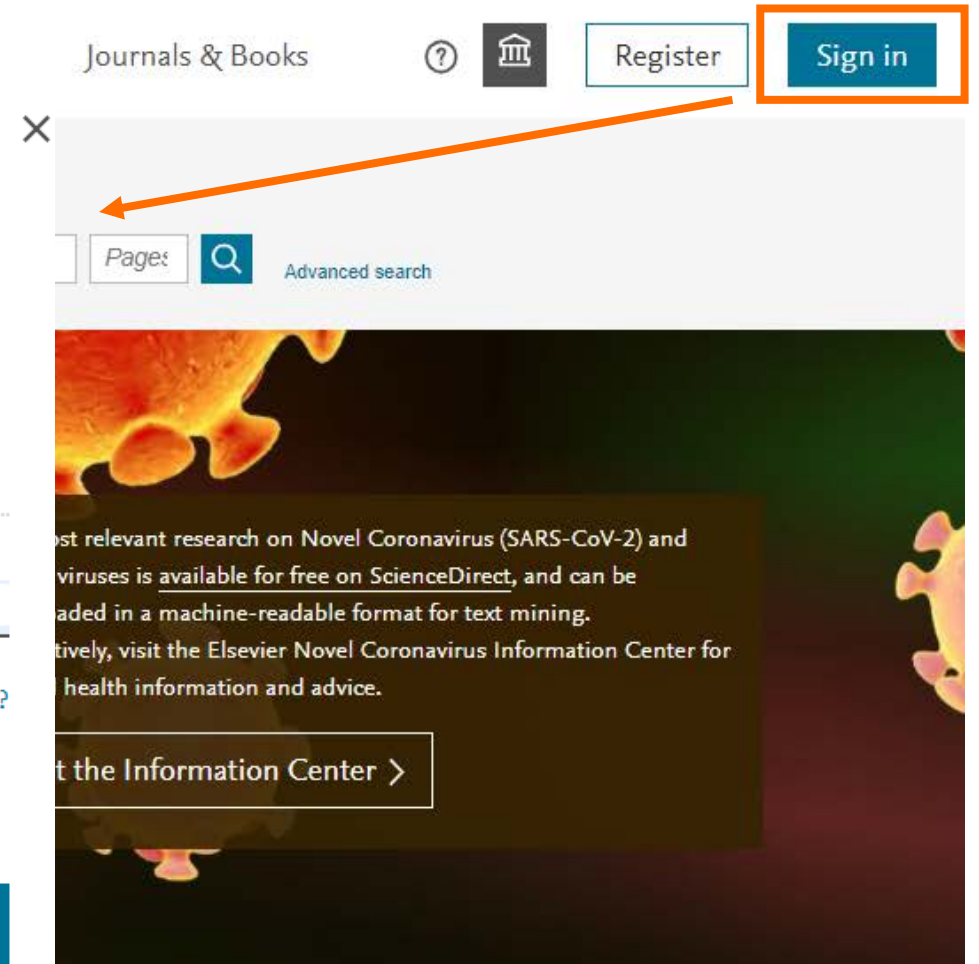
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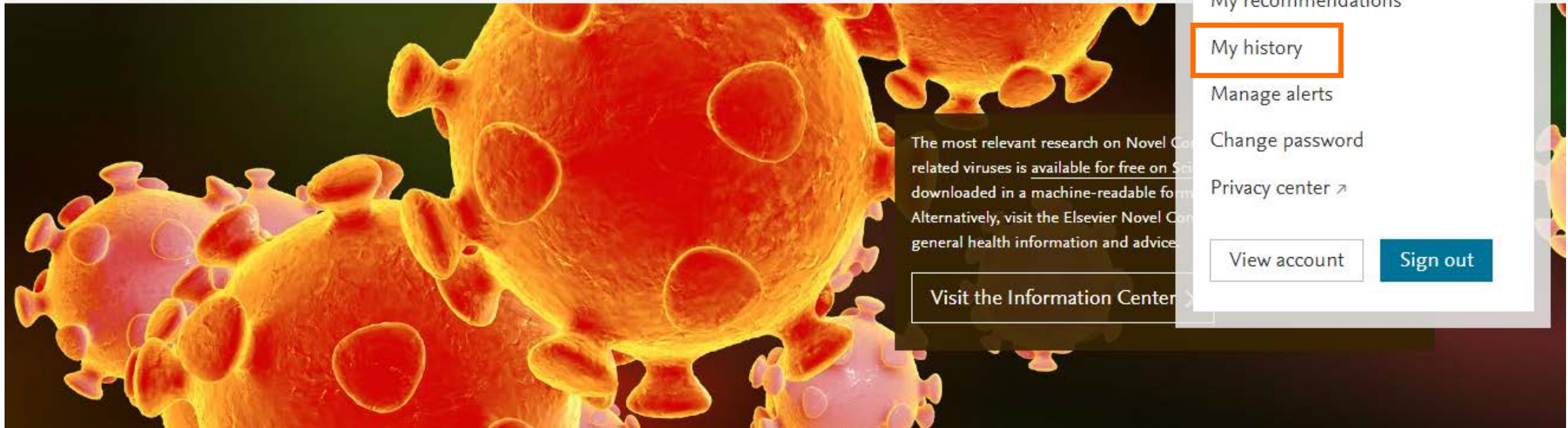
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Abstract



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