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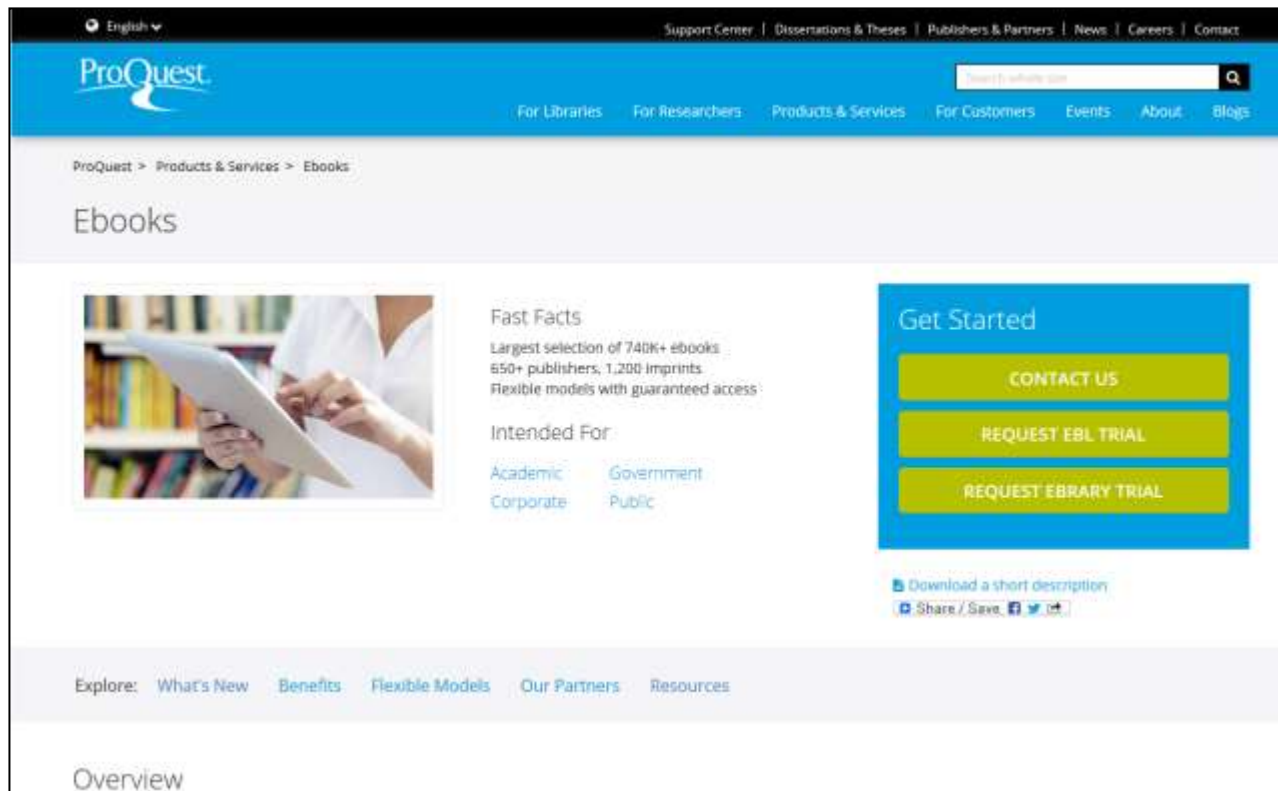


Daniela Cason

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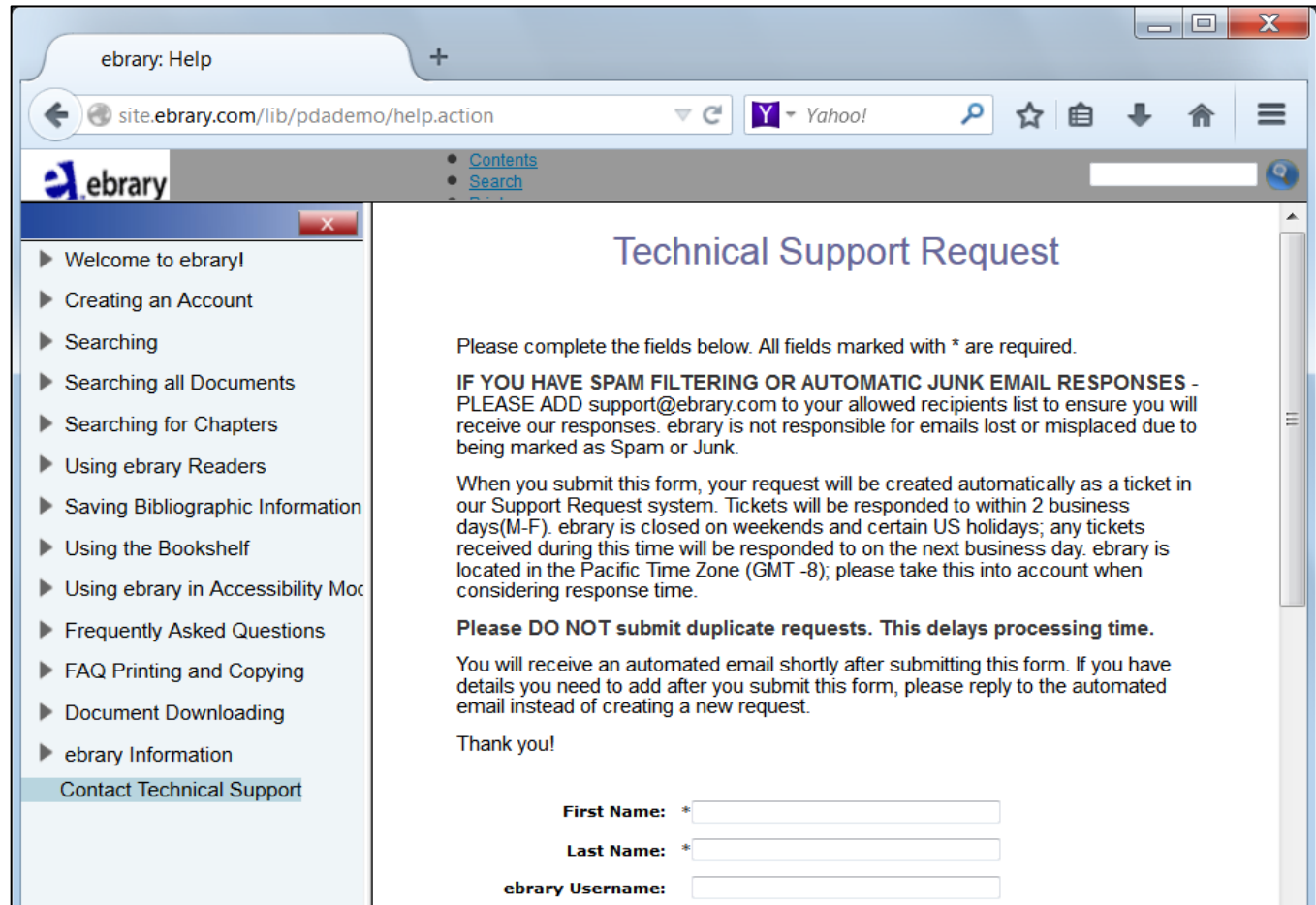


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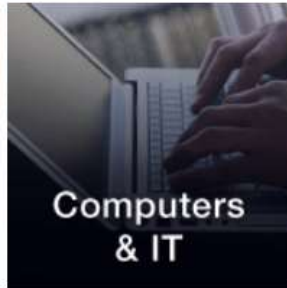
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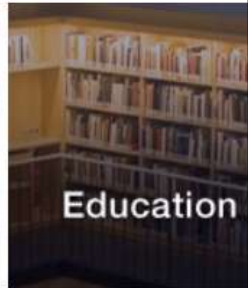
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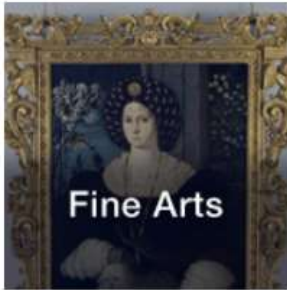
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Returns documents containing both the phrase **"oak trees"** and the word **"acorn"**

oakwood OR "oak wood"

Returns documents that spell the term either as one word or two words.

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	▶ 3 Embedded Computing in the Emerging Smart Grid
	▶ 4 IEEE 802.15.4 Based Wireless Sensor Network Design for Smart Grid Communications
	▼ 5 Smart Grid Communications Networks: Wireless Technologies, Protocols, Issues, and Standards 1
	5.1 Introduction
	▶ 5.2 Smart Grid Communications Network (SGCN)
	▶ 5.3 Wireless Communications Technologies for SGCN
	▶ Go to the first occurrence of the search term in this chapter
	▶ 5.5 Smart Grid Standards
	5.6 Conclusions
	References
	▶ 6 Intercell Interference Coordination: Towards a Greener Cellular Network*

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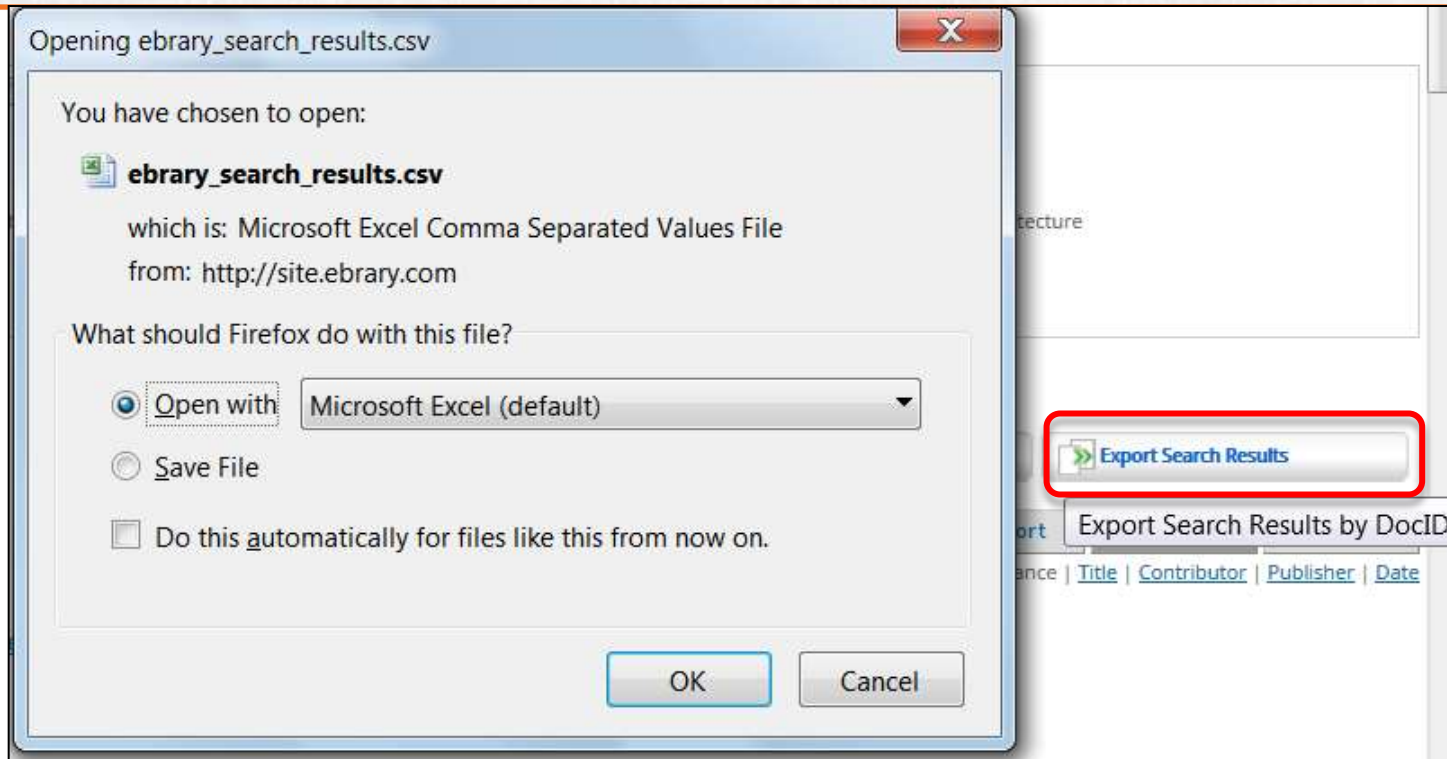
Query	Documents Found	Action
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	 Chapter 6: Exploring Paris	Frommer's France 2007
	 Appendix A: Fast Facts	Frommer's France 2009
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	 Chapter 16: Hitting the Clubs and Bars	Paris For Dummies (6th Edition)
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Hölldobler, Bert

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▼ 2. What Is the Spirit of the Hive?

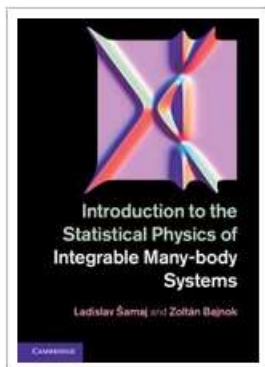
2.1 Stimulus-Response Basis of Behavior

2.2 The Logic of Division of Labor

BIBLIOGRAPHIC INFO

TITLE	Spirit of the Hive : The Mechanisms of Social Evolution
CONTRIBUTORS	Page, Robert E. Hölldobler, Bert
PUBLISHER	Harvard University Press
PRINT PUB DATE	June 2013
LANGUAGE	English
PAGES	241
DOCUMENT TYPE	Book
LC SUBJECT HEADINGS	Beehives. Honeybee -- Behavior. Honeybee -- Evolution. Pollen.
LC CALL NUMBER	QL568.A6 -- P24 2013eb
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Bajnok, Zoltán

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- ▶ Part III Quantum spin chains
- ▶ Part IV Strongly correlated electrons
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TITLE	Introduction to the Statistical Physics of Integrable Many-body Systems
CONTRIBUTORS	Šamaj, Ladislav Bajnok, Zoltán
PUBLISHER	Cambridge University Press
PRINT PUB DATE	May 2013
LANGUAGE	English
PAGES	526
DOCUMENT TYPE	Book
LC SUBJECT HEADINGS	Quantum theory -- Statistical methods. Many-body problem.
LC CALL NUMBER	QC174.17.P7 -- S26 2013eb
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Guide to Financial Management



by Tennent, John

PUBLISHER
Profile Books/The Economist

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Preface

Good financial management is essential for a business to succeed. Many businesses have failed for want of it and, all too often, a career aspiration has faltered, not for lack of effort or ability in a chosen field, but for not being able to understand the financial impacts of decisions and ultimately a failure to “deliver the numbers”. Managers who find themselves in a senior role unable to ask questions of others – which might imply ignorance – have wished that they had got to grips with financial matters earlier in their career.

This guide to financial management is designed to take you through financial principles and illustrate their application, providing a toolkit for managing financial responsibilities. Each chapter is written from an operational perspective in establishing and running a business. Before the index is a glossary of the financial terms used in the book. There is also a list of companies used in examples. The names are those in existence at the time

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▼ 1 Defining a successful business

11 results on page 1

1 Defining a successful **business** To define a successful **business** it is necessary to begin by

1 Defining a successful **business**

To define a successful **business** it is necessary to begin by understanding what a **business** is – in essence “a commercial operation that is run with the aim of making a profit”. This poses two questions: what is a commercial operation and what is profit?

- **A commercial operation** is an activity that is conducted for the benefit of its owners. The significant part is “for the benefit of its owners”, which differentiates it from a government organisation or a charity where the activity is conducted for the benefit of the people it serves. Although the difference is about who gains from success, the route to success for all these activities is to understand and satisfy customers better than your competitors.
- **A profit** is a trading surplus whereby the revenues earned from a commercial operation exceed its costs. This surplus belongs

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Origin of Species

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Origin of Species

Again, it may be asked, how is it that varieties, which I have called incipient species, become ultimately converted into good and distinct species, which in most cases obviously differ from each other far more than do the varieties of the same species? How do those groups of species, which constitute what are called distinct genera, and which differ from each other more than do the species of the same genus, arise? All these **competition** results, as we shall more fully see in the next chapter, follow inevitably from the struggle for life. Owing to this struggle for life, any variation, however slight and from whatever cause proceeding, if it be in any degree profitable to an individual of any species, in its infinitely complex relations to other organic beings and to external nature, will tend to the preservation of that individual, and will generally be inherited by its offspring. The offspring, also, will thus have a better chance of surviving, for, of the many individuals of any species which are periodically born, but a small number can survive. I have called this principle, by which each slight **competition** variation, if useful, is preserved, by the term of Natural Selection, in order to mark its relation to man's power of selection. We have seen that man by selection can certainly produce great results, and can adapt organic beings to his own uses, through the accumulation of slight but useful variations, given to him by the hand of Nature. But Natural Selection, as we shall hereafter see, is a power incessantly ready for action, and is as immeasurably superior to man's feeble efforts, as the works of Nature are to those of Art.

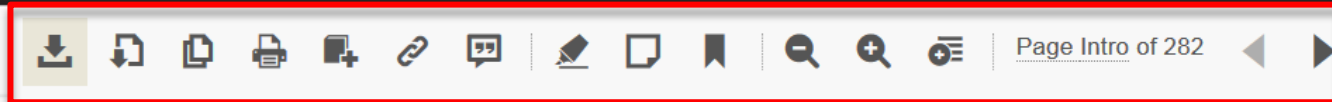
We will now discuss in a little more detail the struggle for existence. In my future work this subject shall be treated, as it well deserves, at much greater length. The elder De Candolle and Lyell have largely and philosophically shown that all organic beings are exposed to severe **competition**. In regard to plants, no one has treated this subject with more spirit and ability than W. Herbert, Dean of Man-

If it be in any degree profitable to an individual of any species, in its infinitely complex relations to other organic beings

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In Chapter 2, I introduced the

to water and to lower concentrations of sugar than the nectar foragers. They had lower response thresholds. We thought that this might be because they were more motivated. Foragers are full of sugar solution and satiated, w... under nutritional stress from flying to collect pollen. We fed all bees to satiation with 30 percent sucrose solution, let them rest for one hour, and then retested them. Responses to water were no longer different and responses to sugar solutions were greatly reduced in the satiated bees, but the differences between pollen and nectar foragers persisted. In fact, the relative differences between them increased. Response thresholds were not fixed; they had been modulated by feeding.

Tanya Pankiw and Keith Waddington kept young bees in cages in an incubator and fed different concentrations of sugar solution to bees in the different cages. Bees fed higher concentrations of solution had higher response thresholds (were less sensitive to sugar) than those fed lower concentrations. Bees foraging at feeders of different concentrations modulated their response thresholds according to the concentration of the solutions they collected. As with the bees in cages, those





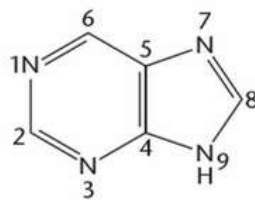
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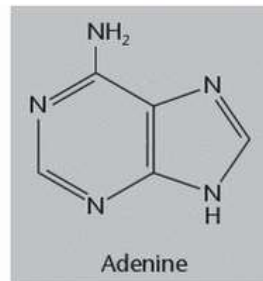
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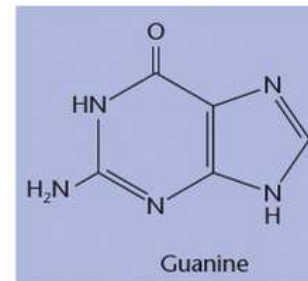
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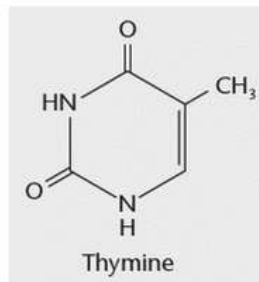
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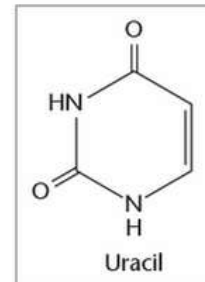
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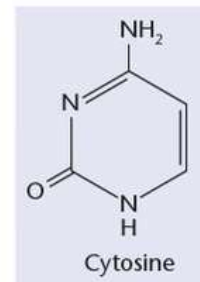
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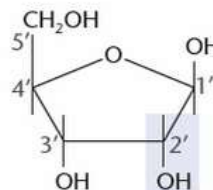
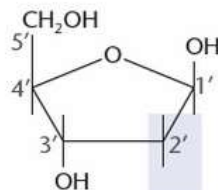


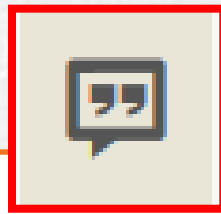
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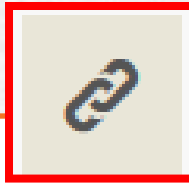
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were transferred to an incubator maintained at normal brood-nest
temperature (about 35 degrees Celsius) where workers from each strain
emerged into separate cages. Newly emerged workers of each strain
were divided into two equal groups, marked with paint for strain iden-
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high- and low-strain workers. We call this our “common-garden ex-

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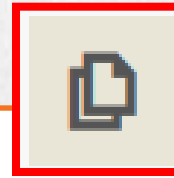
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Queens of the high and low strains were instrumentally inseminated with sperm from a single drone each, derived from their own strain. The queens laid eggs in combs that were then placed together in a common nursery colony until larval development was complete. The nursery colony was a wild-type (not high- or low-strain) colony that was set up to raise the brood from eggs to pupae. The combs containing pupae were transferred to an incubator maintained at normal brood-nest temperature (about 35 degrees Celsius) where workers from each strain emerged into separate cages. Newly emerged workers of each strain were divided into two equal groups, marked with paint for strain identification, and placed in two host colonies. Each host colony received high- and low-strain workers. We call this our “common-garden ex-

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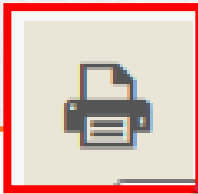
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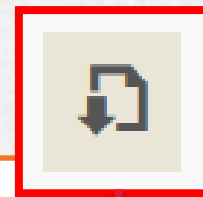
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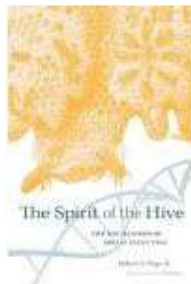
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Insights into Lignin Degradation and its Potential Industrial Applications

Ahmed M. Abdel-Hamid^{*,**}, Jose O. Solbiati^{*,**},
Isaac K. O. Cann^{*,**,#,@,1}

^{*}Energy Biosciences Institute, University of Illinois, IL, USA
^{**}Institute for Genomic Biology, University of Illinois, IL, USA
[#]Department of Animal Sciences, University of Illinois, IL, USA
[@]Department of Microbiology, University of Illinois, IL, USA
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Introduction

The goal of this textbook is to introduce the student to the field of bacterial molecular genetics. Bacteria are relatively simple organisms and some are quite easy to manipulate in the laboratory. For these reasons, many methods in molecular biology and recombinant DNA technology have been developed around bacteria, and these organisms often serve as model systems for understanding cellular functions and developmental processes in more complex organisms. Much of what we know about the basic molecular mechanisms in cells, such as translation and replication, has originated with studies of bacteria. This is because such central cellular functions have remained largely unchanged throughout evolution. Ribosomes have a similar structure in all organisms, and many of the translation factors are highly conserved. The DNA replication apparatus of all organisms contains features in common such as sliding clamps and editing functions, which were first described in bacteria and their phages. Chapter 11 discusses the role of chaperones that help other proteins fold and topoisomerases that change the topology of DNA were first discovered in bacteria and their viruses, called phages. Studies of repair of DNA damage and mutagenesis in bacteria have also led the way to an understanding of such pathways in eukaryotes. Excision repair systems, mutagenic polymerases, and mismatch repair systems are remarkably similar in all organisms and have recently been implicated in some types of human cancers.

Also, recent evidence indicates that the cell biology of bacteria might be much more complex and more like that of eukaryotes than previously thought. For a long time it has been possible to observe the seemingly purposeful movement of constituents on the cytoskeleton within eukaryotic cells. However, bacterial cells, being much smaller, were thought to be merely "bags of enzymes" that could rely only on passive diffusion to move

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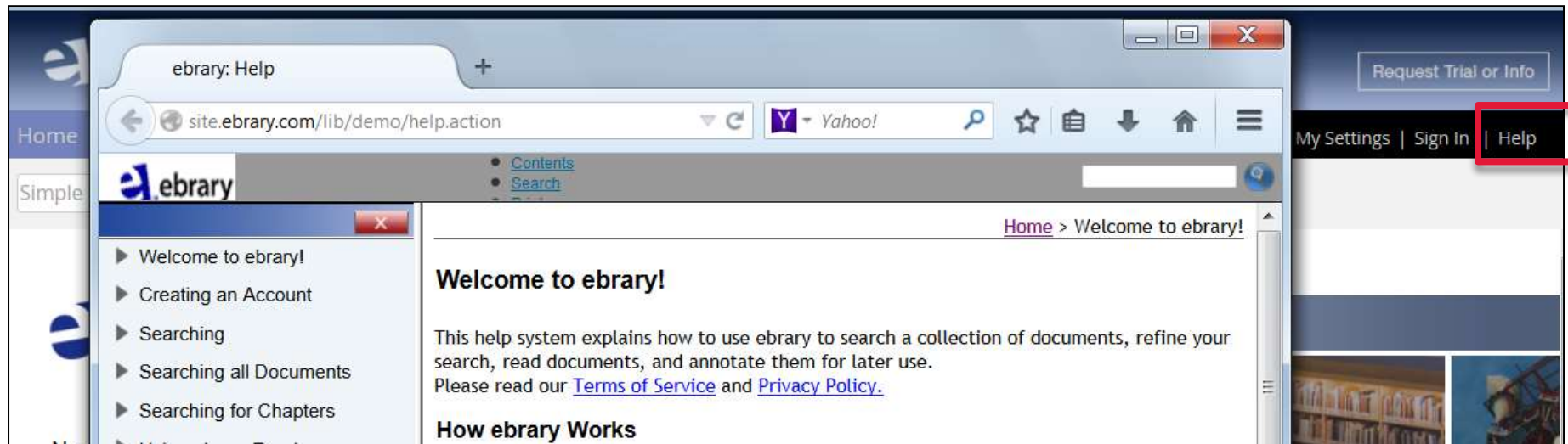
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