these are unnecessary, and we content ourselves by merely shewing in what directions their utility will be most active: To the Medical and Surgical Practitioner of this city, whose avocations prevent their personal attendance at the Hospitals—To Country Practitioners, whose residence from the head quarters, as it were, of scientific knowledge, leaves them almost without the means of ascertaining its progress—To the numerous classes of Students, whether here or in distant universities—To Colonial Practitioners—And, finally, to every individual in these realms. Consequently, we shall exclude from our pages the uncouth terms of the Schools, and adopt as its substitute, plain English diction. In this attempt, we are well aware that we shall be assailed by much interested opposition. But, relinquishing this, we will fearlessly discharge our duty. We hope the age of "Mystic Delusion" has passed, and that mystery and conceal-ment will no longer be encouraged. Indeed, we trust that mystery and ignorance will shortly be considered synonymous. Ceremonies, mystic signs, have now lost their charms; hieroglyphics, and gilded mummeries, their power to deceive. But for these, it would have been impossible to imagine how it has happened that medical and chirurgical knowledge, of all others the most calculated to benefit Man, should have been by him the most neglected. He studies with the greatest attention and anxiety the constitution of his horse and his dog, and learns all their peculiarities; whilst of the nature of his own he is wholly uninformed, and equally unskilled as regards his infant offspring. Yet, a little reflection and application would enable him to avert from himself and family half the constitutional disorders that afflict society; and in addition to these advantages, his acquirements in Medical learning would furnish him with a test by which he could detect and expose the impostures of ignorant practitioners.

In conclusion—we respectfully observe, that our Columns will not be restricted to Medical intelligence, but on the contrary we shall be indefatigable in our exertions to render "THE LANCET" a complete Chronicle of current Literature.

SURGICAL LECTURES.

Theatre, St. Thomas's Hospital,
WEDNESDAY EVENING,
Oct. 1, 1823.

At half-past Seven this Theatre was crowded in every part, by upwards of four hundred Students, of the most respectable description; in fact we never before witnessed so genteel a Surgical class: the sight was most pleasing, for they all appeared gentlemen of cultivated manners and good education.

About Eight o'clock, Sir ASTLEY COOPER arrived, and was received with the most enthusiastic applause; when it had ceased, this distinguished Professor commenced his discourse by observing,—That, while it is the province of the Physician to attend to internal diseases, it is the duty of the Surgeon to attend to those that are external; to perform operations for the removal of diseased parts; and to know how to regulate the system by the use of medicine, when local diseases are produced by constitutional derangement. Surgery is usually divided into the Principles and Practice. The first are learned from observations on the living when diseased, by dissection of the dead, and by experiments made on living animals. Our deductions from these sources, furnish us with the means of knowing a malady by its symptoms, the alteration of structure in a part when diseased, and the various ways in which *Nature* attempts the reparative process, both to external and internal parts. A man who has seen much of morbid preparations, possesses great advantages; but his knowledge cannot be perfect unless he has frequently seen the subject under dissection, in which he must himself have assisted. In the surgical sciences hypothesis should be entirely discarded. And sound theory, derived from actual observations and experience, alone encouraged. The first is an ignis fatuus that is sure to mislead; the last a polar star, a never failing guide. Experiments on living animals have been found of the greatest utility in directing us to a knowledge of the means by which Nature acts in the reparation of injuries, and in the restoration of lost parts. Thus the method she would adopt in uniting a fracture in the bone of a dog, will shew you the manner in which union would happen in the fracture of a

THE LANCET: 1823

SURGICAL LECTURES.

Theatre, St. Thomas's Hospital.

WEDNESDAY EVENING,
Oct. 1, 1823.

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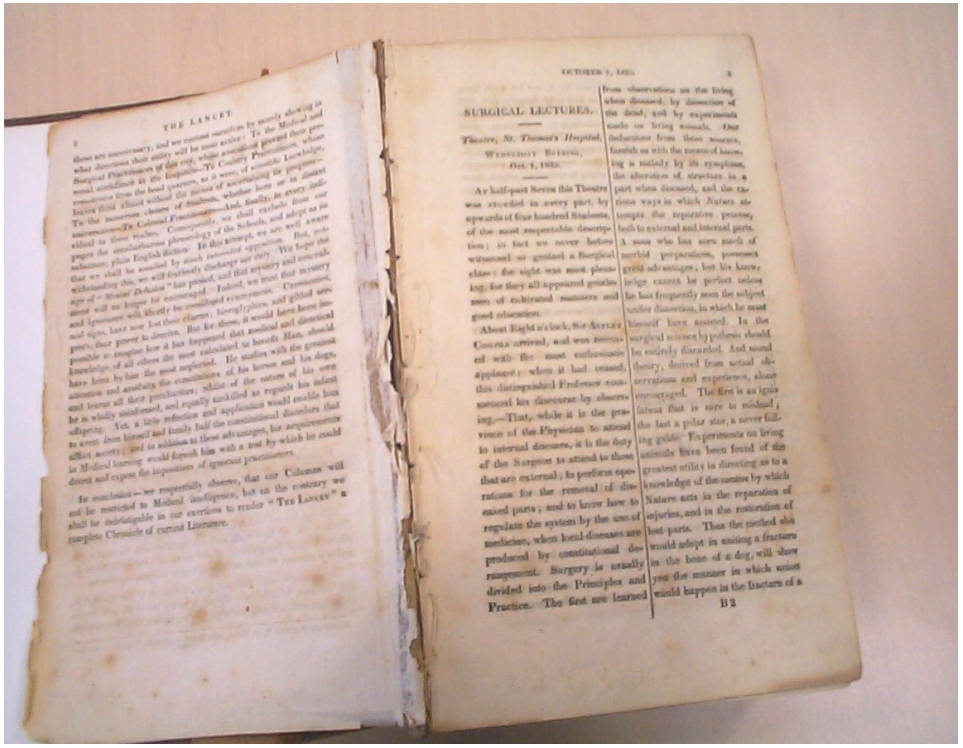

SURGICAL LECTURES.

Theatre, St. Thomas's Hospital.

WEDNESDAY EVENING,
Oct. 1, 1823.

- Internet: une nouvelle approche de l'information ?

Abstract

Acceleration and sound measurements during granular discharge from silos are used to show that silo music is a sound resonance produced by silo quake. The latter is produced by stick-slip friction between the wall and the granular material in tall narrow silos. For the discharge rates studied, the occurrence of flow pulsations is determined primarily by the surface properties of the granular material and the silo wall. The measurements show that the pulsating motion of the granular material drives the oscillatory motion of the silo.

1 Introduction

The discharge of granular materials from silos is often characterized by vibrations or pulsations of the silo, termed 'silo quake', and a loud noise, termed 'silo music' [8,9,10, 14,19,23, 27,30,31]. Both of these are undesirable as silo quake may cause structural failure and silo music is a source of noise pollution. Unfortunately, the numerous conflicting studies published in the literature [8,9,10, 14,19,23, 27,30,31] do not give the silo designer a simple model to understand the physical processes that cause the pulsations, and to guide silo design or modification that would prevent the pulsations or at least

y is to investigate the cause of the noise and the
n of the granular material and the motion of the

Several studies of the discharge of granular material from silos have noted fluctuations in discharge rate and the production of noise and vibration [8,9,10, 14,19,23, 27,30,31]. The top of the

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Silo music and silo quake: granular flow-induced vibration

Benson K. Muite[a], Shandon F. Quinn[a], Sankaran Sundaresan[a], and K. Kesava Rao[b]

[a]School of Engineering and Applied Science, Princeton University, Princeton, NJ 08544, United States

[b]Department of Chemical Engineering, Indian Institute of Science, Bangalore, India

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Abstract

Acceleration and sound measurements during granular discharge from silos are used to show that silo music is a sound resonance produced by silo quake. In tall and narrow silos, the l produced by stick–slip friction between the wall and the granular material. For the discharg studied, the occurrence of flow pulsations is determined primarily by the surface properties granular material and the silo wall. The measurements show that the pulsating motion of the granular material drives the oscillatory motion of the silo.

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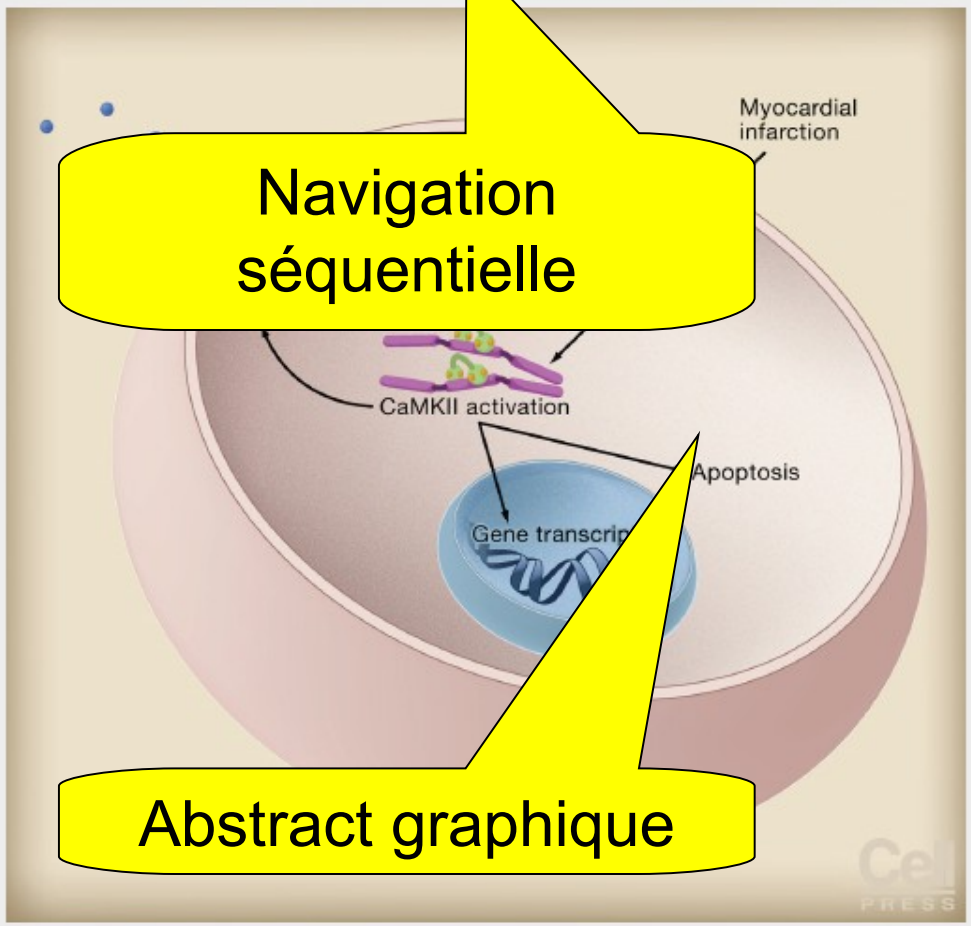

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L'article du futur ?

Author Interview

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Calcium/calm… (Ca2+/CaM)-dependent protein kinase II (CaMKII) coupl… ses in cellular Ca2+ to fundamental responses in e… lls. CaMKII was identified over 20 years ago by activati… recent evidence shows … ant conditi… latory domain methionine residues sustains CaMKII activity in the absence of Ca2+/CaM. CaMKII is activated by angiotensin II (AngII)-induced oxidation, leading to apoptosis in cardiomyocytes both in vitro and in vivo. CaMKII oxidation is reversed by methionine sulfoxide reductase A (MsrA), and MsrA-/- mice show exaggerated CaMKII oxidation and myocardial apoptosis, impaired cardiac function, and increased mortality after myocardial

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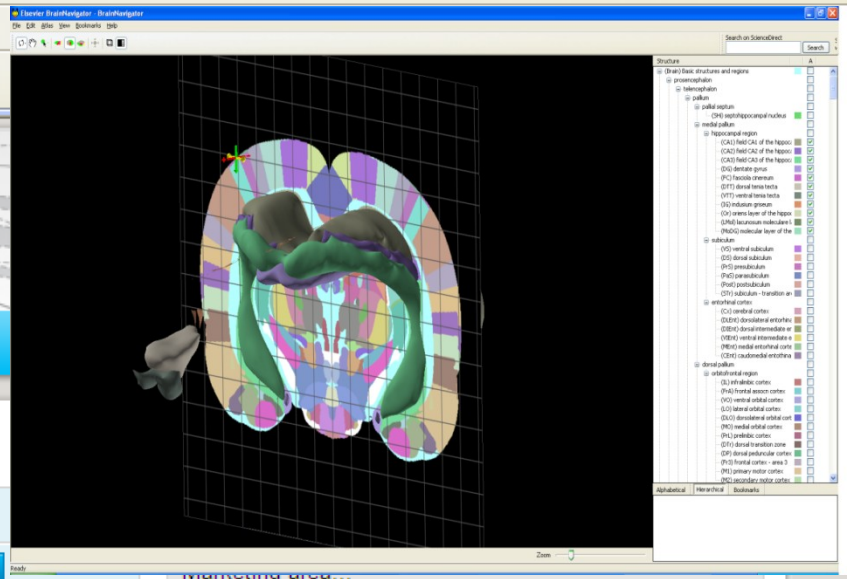

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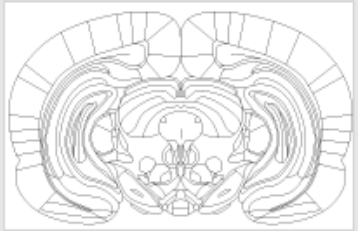

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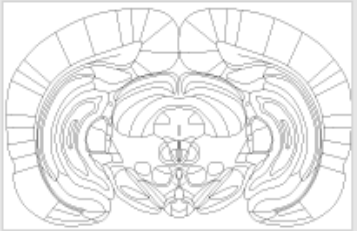

Figure 84 - Rat

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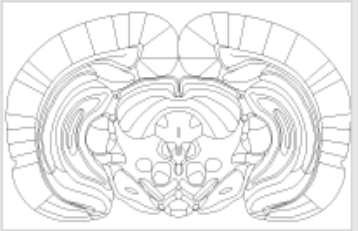
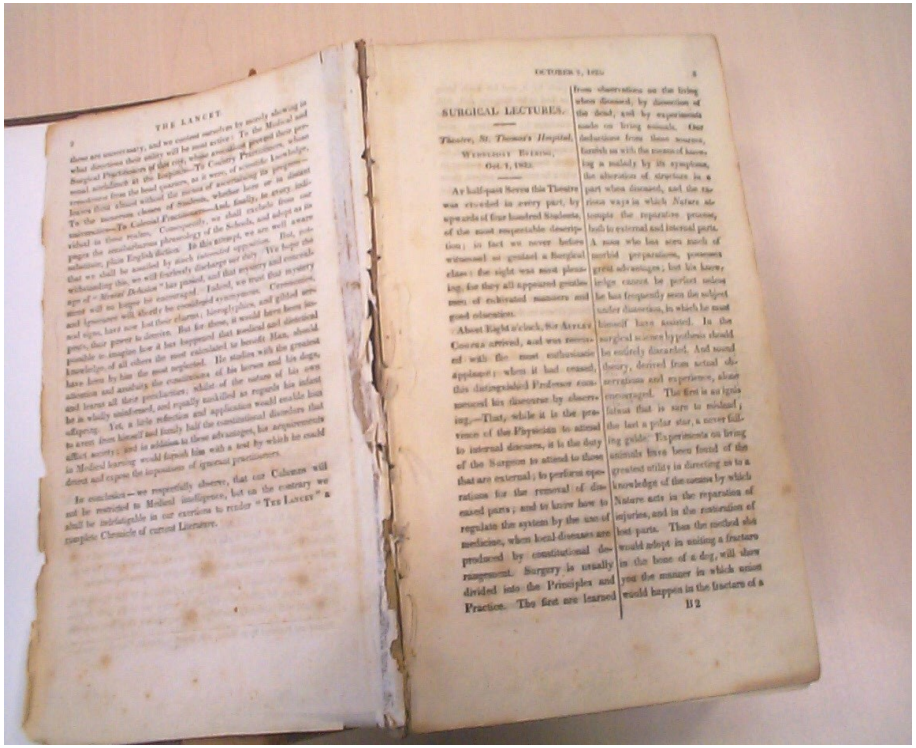


Figure 83 - Rat



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Theatre, St. Thomas's Hospital.

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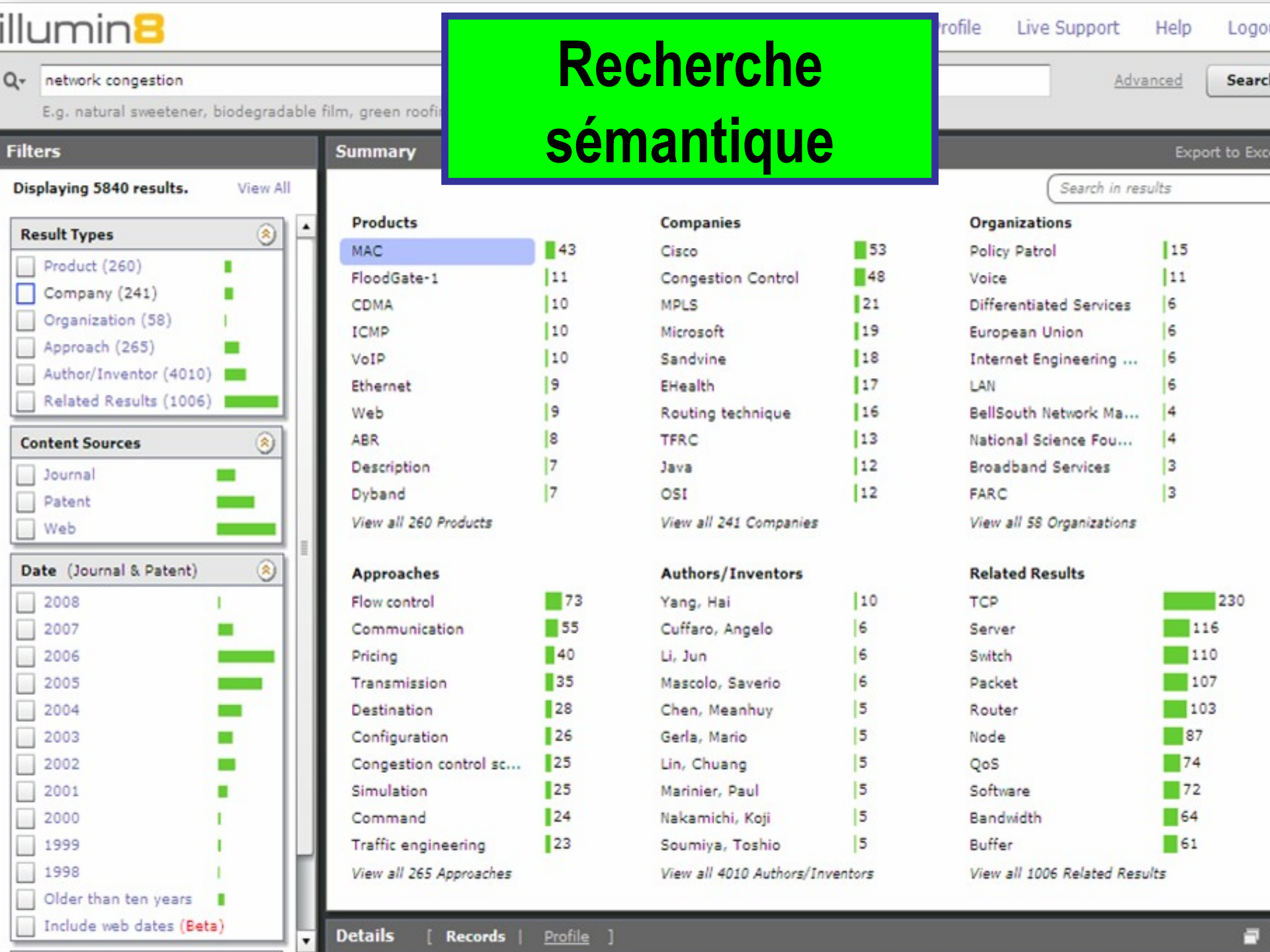
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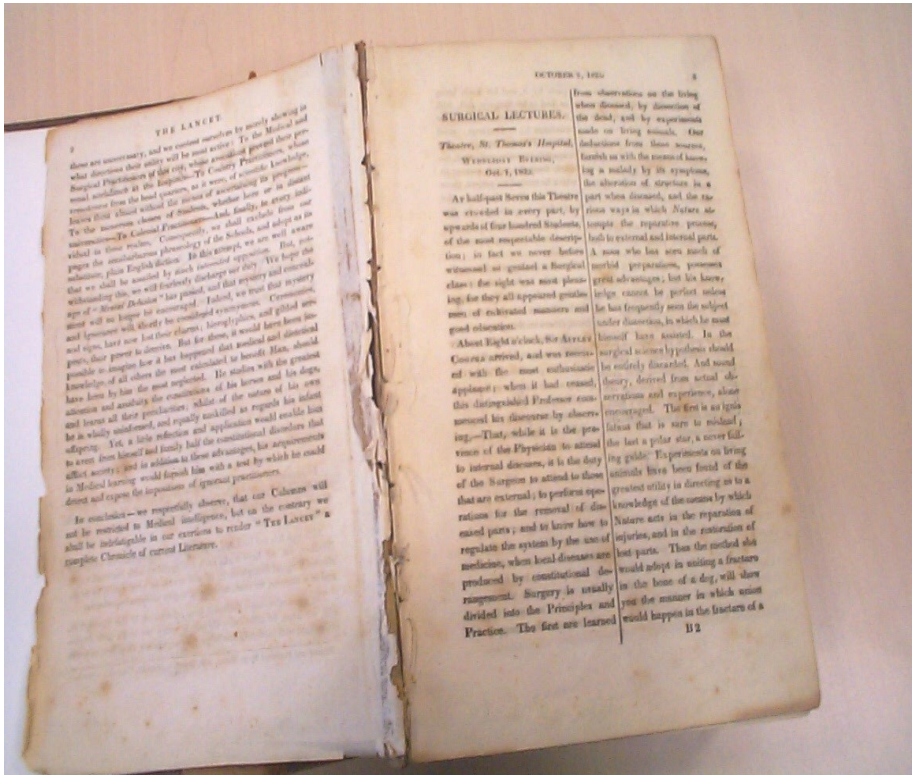

SURGICAL LECTURES.

Theatre, St. Thomas's Hospital,

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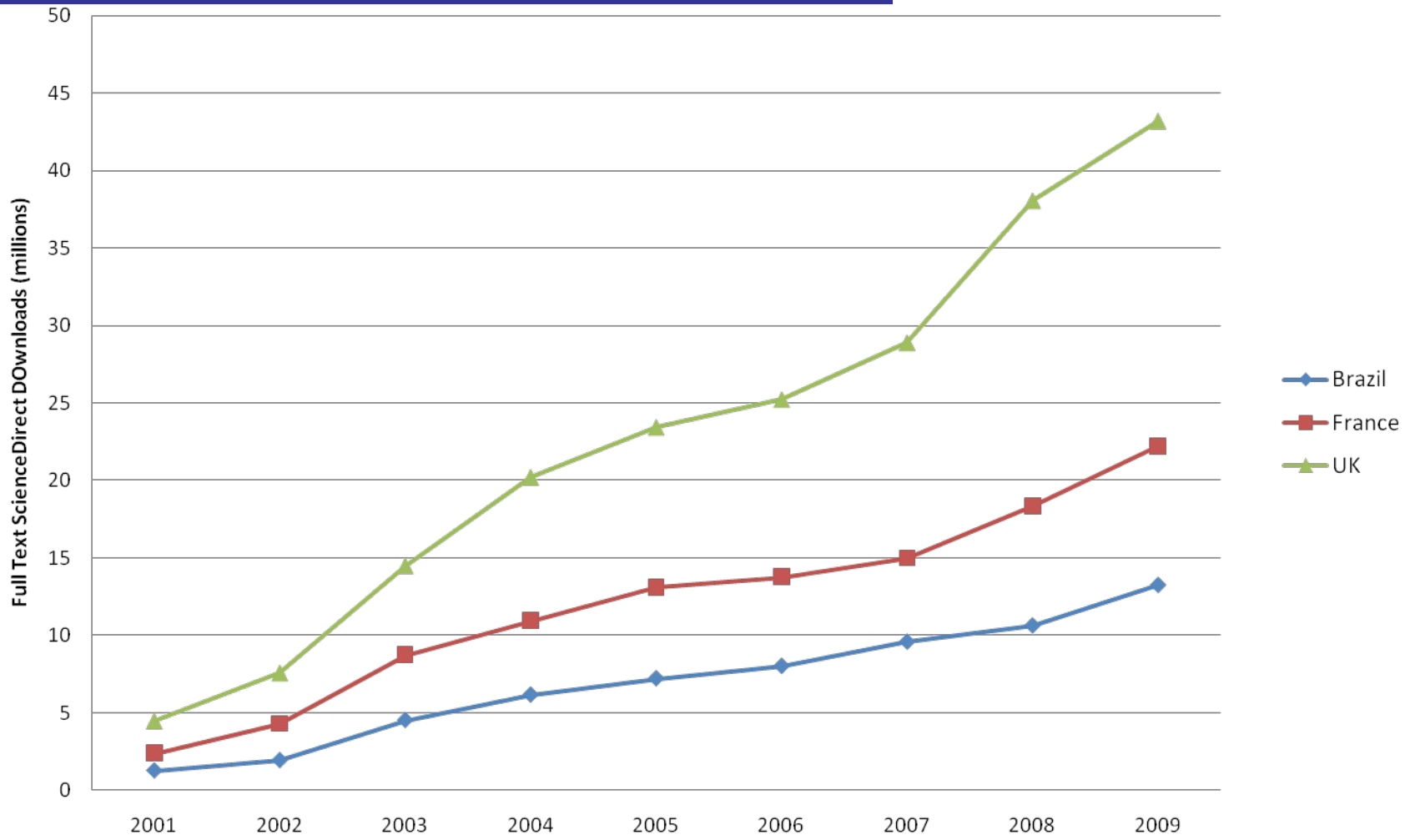

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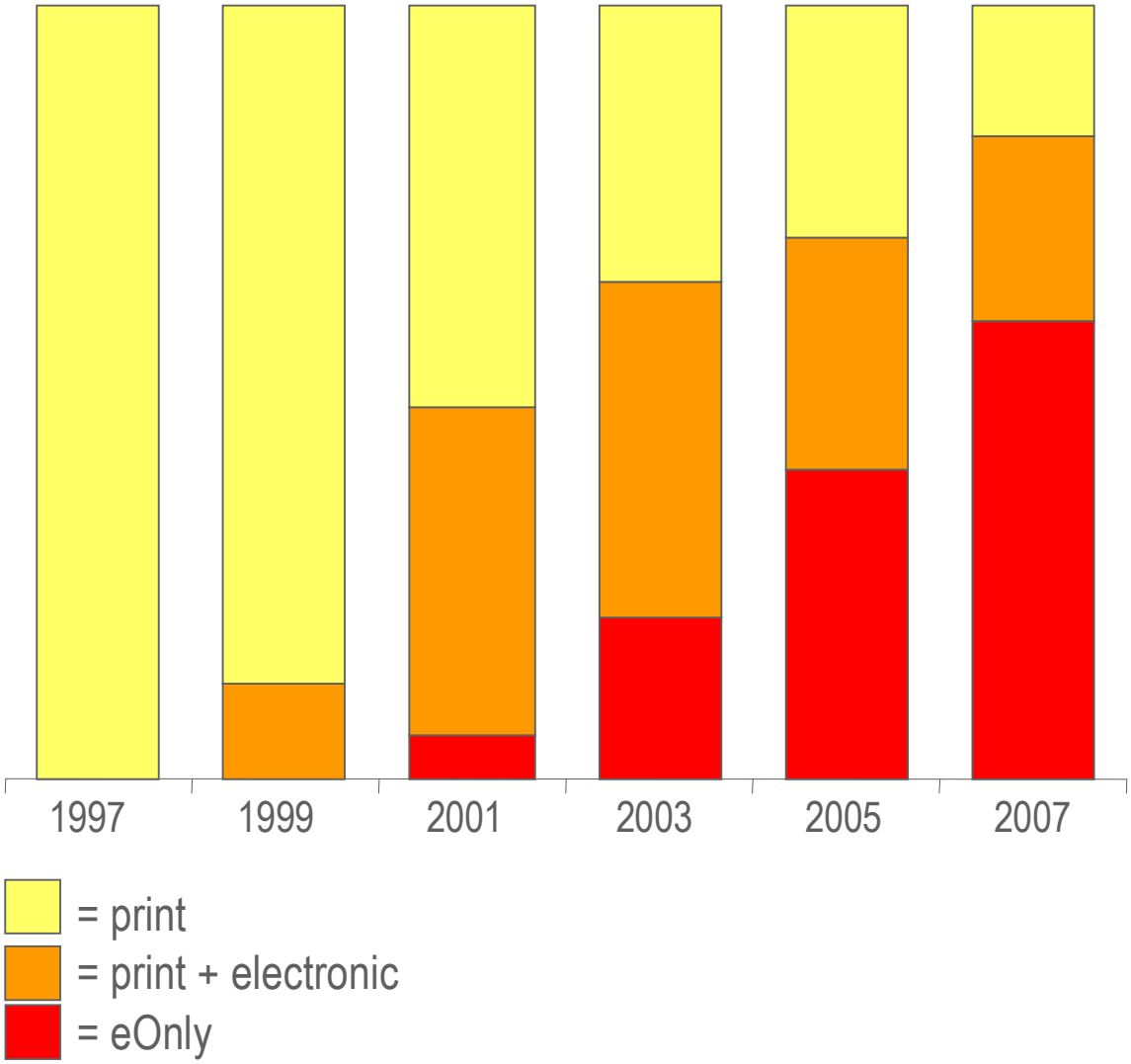

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Journal spend and journal use

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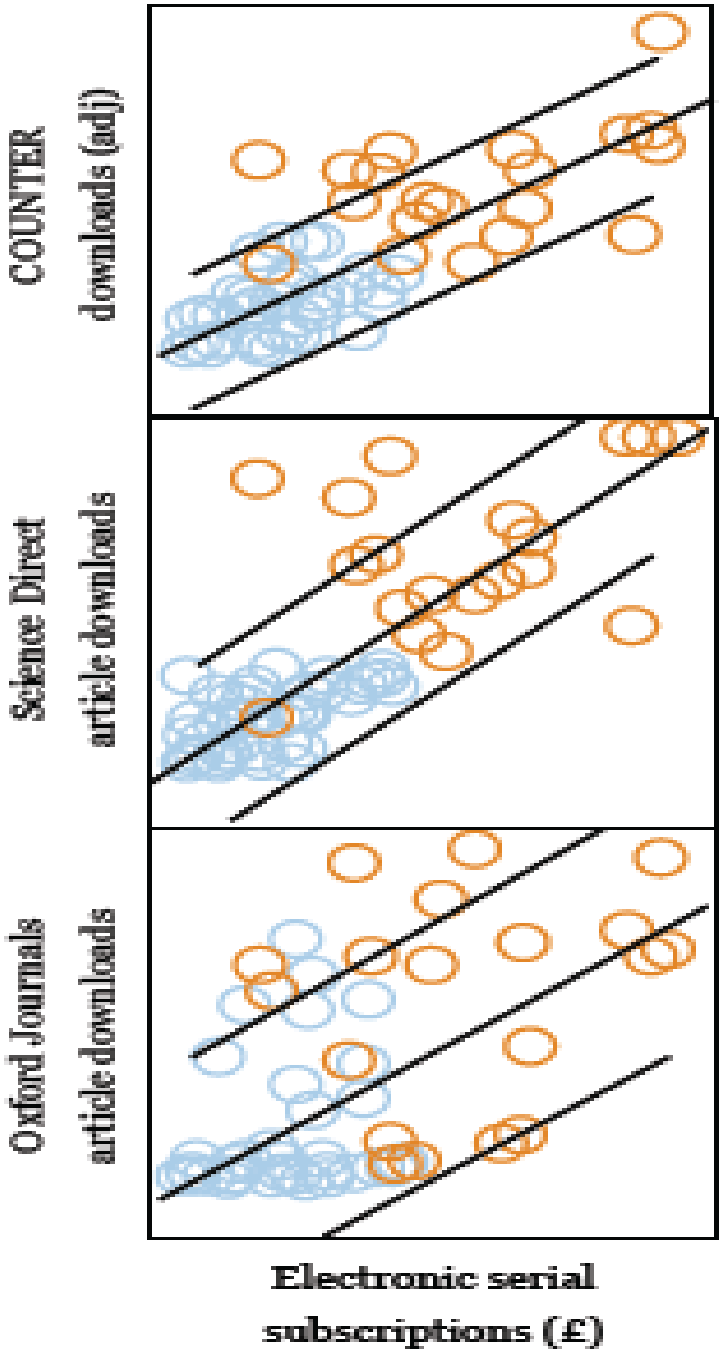

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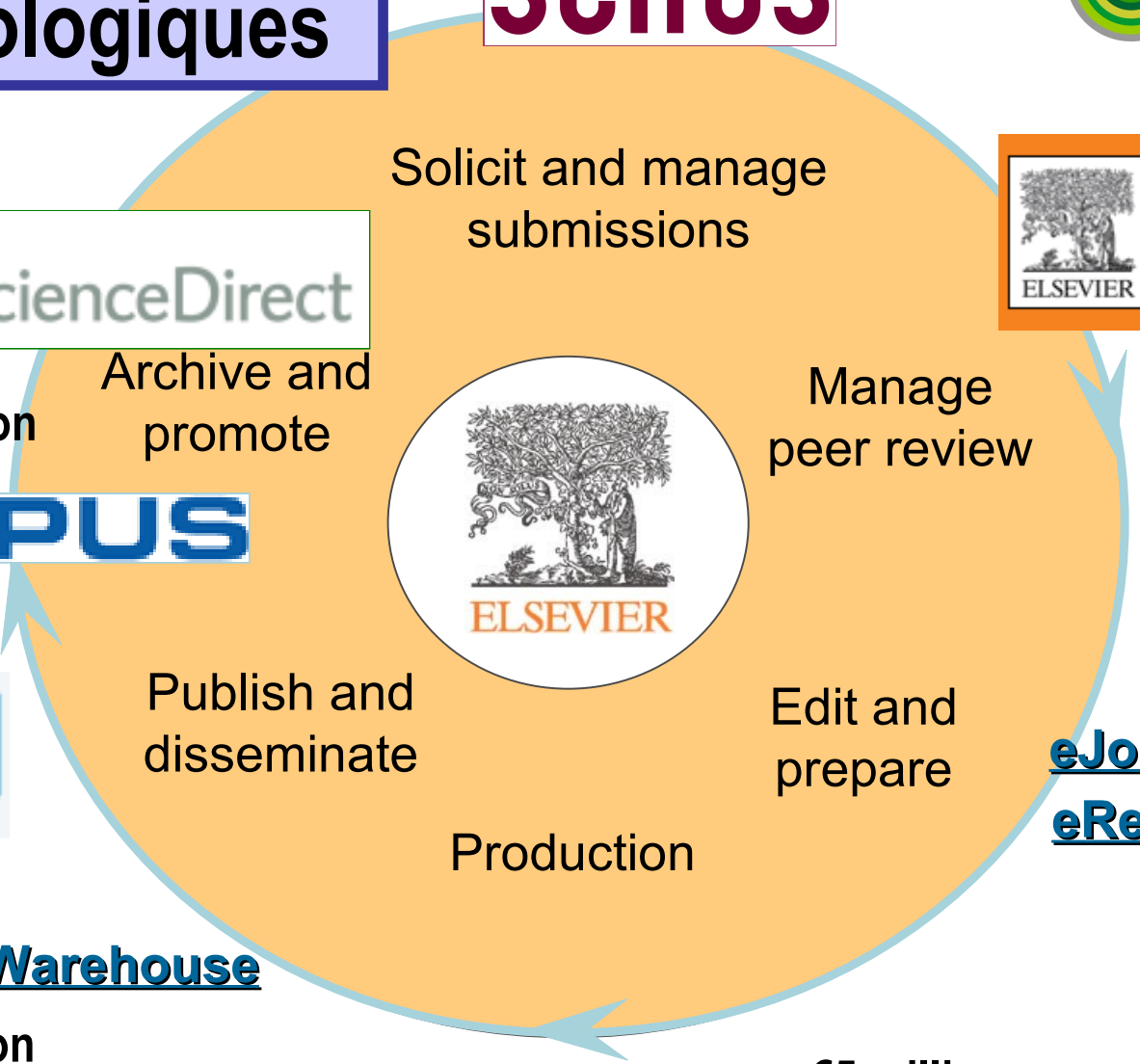

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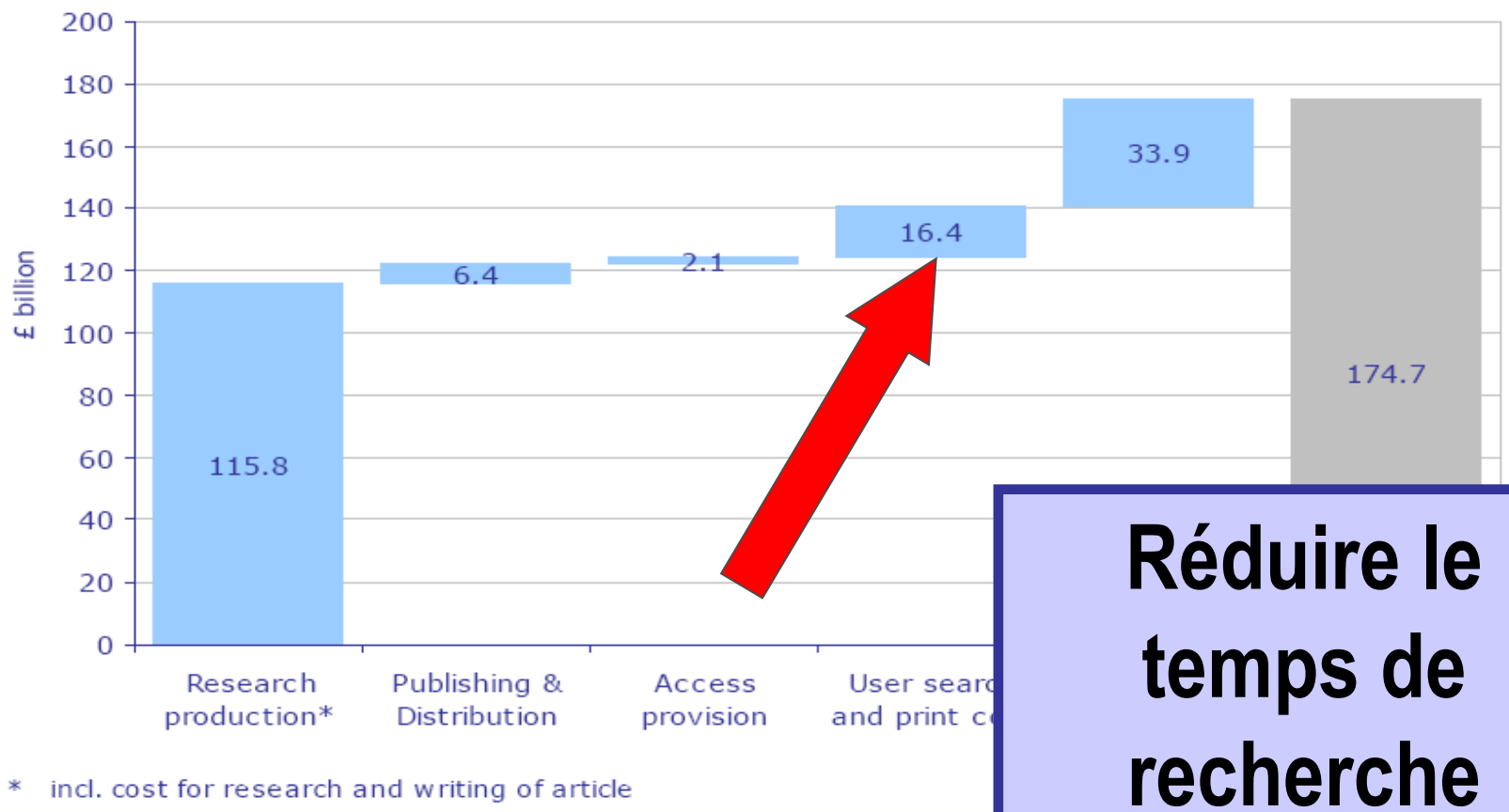

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Source: Activities, costs and funding flows in scholarly communications, RIN May 2008, http://www.rin.ac.uk/costs-funding-flows

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