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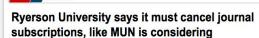
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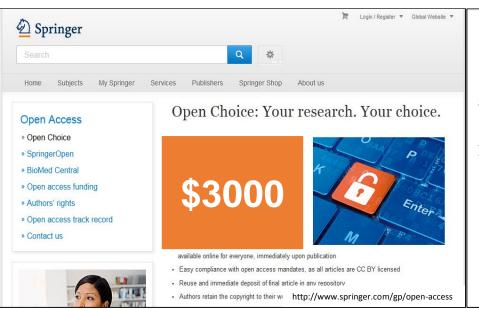






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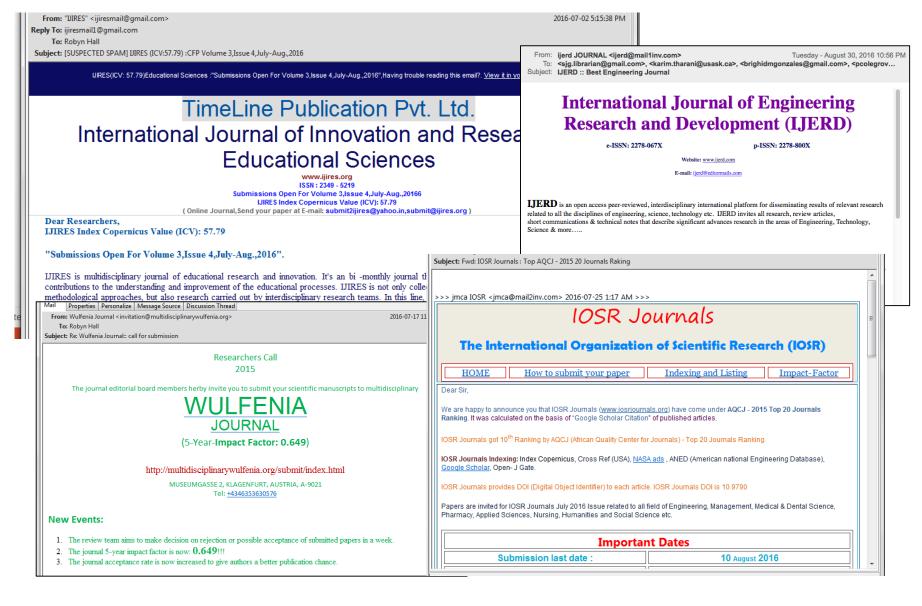
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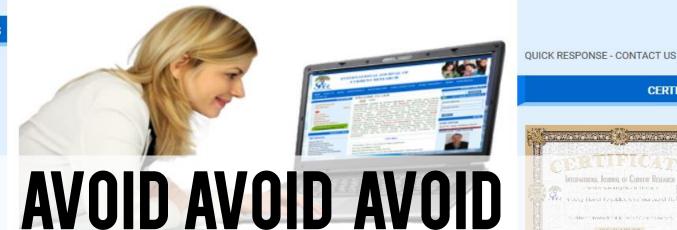
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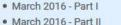
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Crimes and Punishment: Understanding of the Criminal Code

Sandy Jung, Heather Ahn-Redding, and Meredith Allison

NOTICE: This is the author's version of the following article: Jung, S., Ahn-Redding, H., & Allison, M.

(2014). Crimes and punishment: Understanding of the Criminal Code with a Canadian sample. Canadian Journal of Criminology and Criminal Justice, 56, 341-366, which has been published in final form at <a href="http://dx.doi.org/10.3138/CJCCI.2013.E17">http://dx.doi.org/10.3138/CJCI.2013.E17</a>.

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The present research was reviewed and approved by an institutional research ethics board before the study began. Undergraduate participants were recruited through an online research participation pool and were given course credit for their participation in the study. Participants attended in-person sessions lasting no more than an hour. In these sessions, participants were asked to read a consent form, and then instructions were read aloud to all participants by a research assistant to ensure they were informed of the nature of the study. Following the participants' consent to participate, they were given the questionnaire booklet. Because participants finished their questionnaires at different times, a written debriefing form was provided to inform participants of the intent of this research as well as any relevant contact information.

The participants' responses were coded by three raters, using a detailed coding key, based on the definitions from the Criminal Code. To ensure reliability of the coding, 30 questionnaires were independently coded by two raters to calculate inter-rater reliability. Given that inferences were confined to two specific raters, a two-way mixed model with measures of consistency was used in the calculation of the intraclass correlation coefficient (ICC). Exact percentage agreement fell between 46% to 100%, with ICCs ranging between 0.616 to 1.000, and only one item falling below 0.75 (i.e., punishment for illegal use of alcohol, ICC = 0.616). Percentages estimated by participants for Part 3 (i.e., recidivism estimates) were directly entered into the database and analysed.

#### Results

In the first section, descriptive information on the percentage of participants who gave partly and fully accurate definitions of each crime and appropriate sentencing is provided.. The

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#### Walt Crawford updates his analysis of DOAJ data

Walt Crawford is prolific! As if his first tranche of mega-analysis wasn't enough work for him, he has released an update to The Gold Open Access Landscape 2011-2014, which I wrote about previously, that includes an initial analysis of the journals that were removed from DOAJ at the shut-down of the Reapplication project.\* He completed [...] Read More ...

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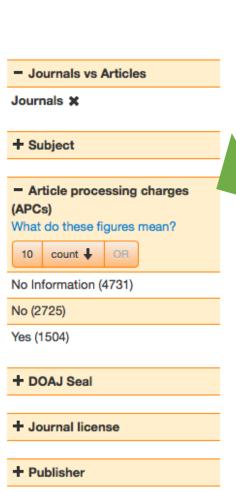
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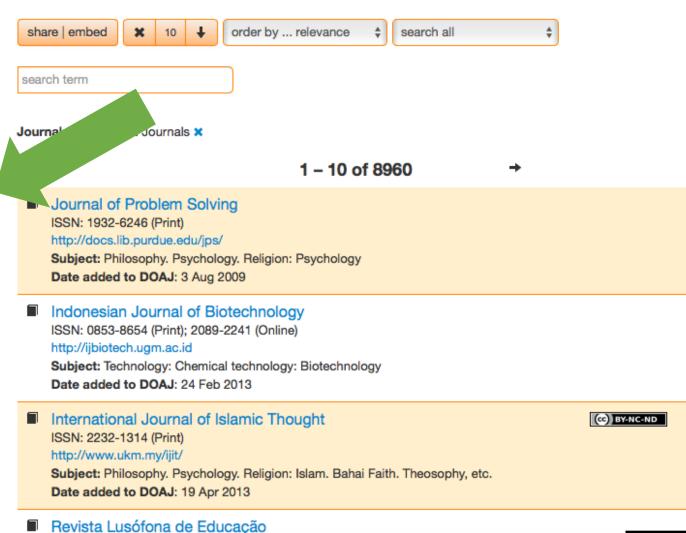
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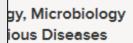
- 2 Nicholas J. Schurch, University of Dundee, UK
- 3 Devon P. Ryan, Max Planck Institute of Immunobiology and Epigenetics, Germany
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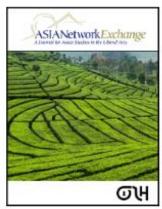
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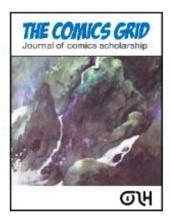


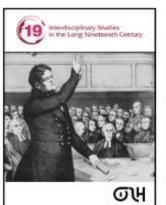
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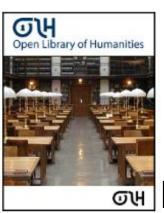
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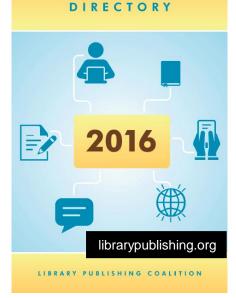




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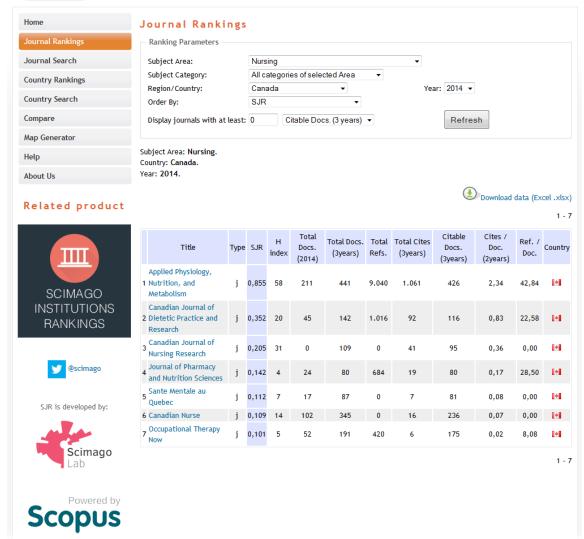
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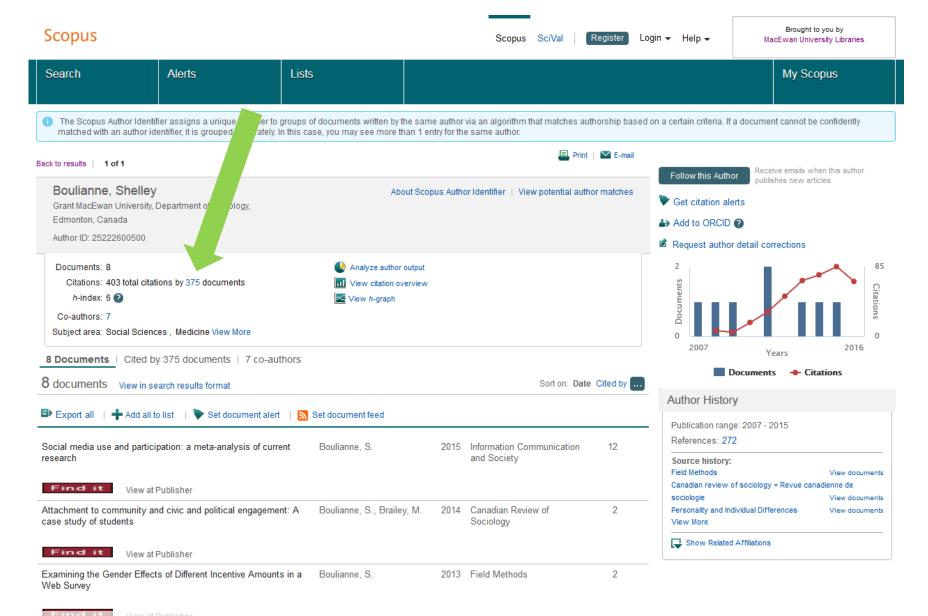




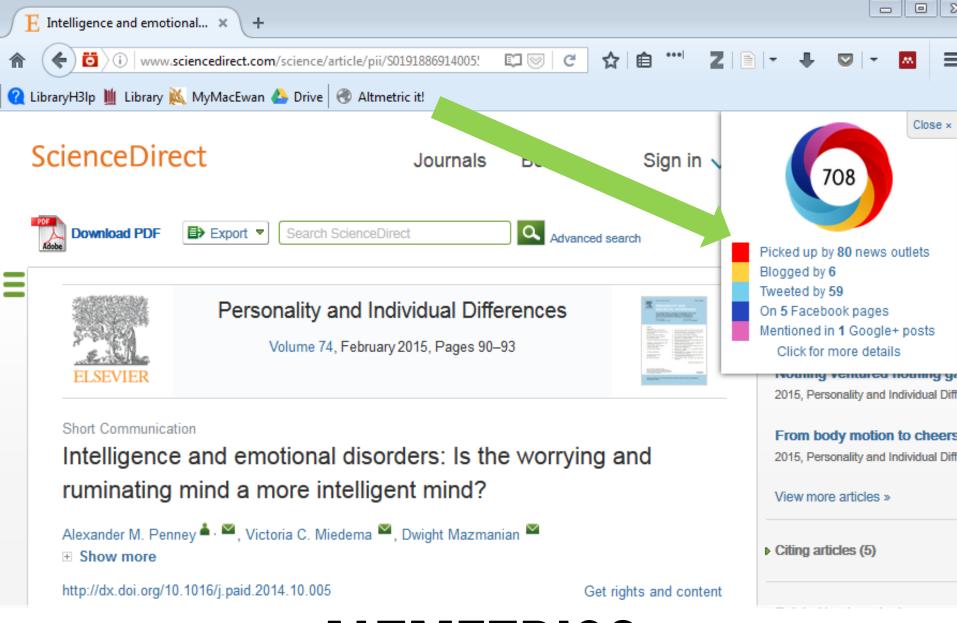




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**PAPER** 



Cite this: Anal. Methods, 2015, 7, 9092

An integrated carbon entrapped molecularly imprinted polymer (MIP) electrode for voltammetric detection of resveratrol in wine

S. M. Mugo,\* B. J. Edmunds, D. J. Berg and N. K. Gill

A carbon entrapped molecularly imprinted polymer (CEMIP) electrode has been demonstrated as a sensitive and selective voltammetric sensor for the in situ detection of resveratrol in red wine. Using differential pulse voltammetry (DPV), the CEMIP was compared to the carbon entrapped non-imprinted polymer (CENIP), with the resveratrol imprinted format found to be 12 times more sensitive for the detection of resveratrol. The CEMIP and CENIP had a detection limit of 20 and ~100 μg L<sup>-1</sup>, respectively, with both electrodes giving good linear standard addition calibrations with  $R^2 \ge 0.99$  for concentrations between 0.1 and 5 mg L-1, which is the usual occurrence range of resveratrol in wine. Compared to the conventional carbon MIP composite (CMIPC), the CEMIP platform was 2.7 orders of magnitude more sensitive, which is attributed to the better electron transfer and unhindered access of the analyte to the

Received 10th July 2015 Accepted 14th September 2015

www.rsc.org/methods

#### Introduction

Chemical sensors such as particular interest in chem sive, selective and rapid a matrices, without the nee techniques.1-5 Of core imp membrane materials that device with low detection ieved by using materials analyte (e.g. glass), integra

#### Media use and dream associations between Canadians of differing cultural backgrounds

Jayne Gackenbach & Sarah Gahr

Grant MacEwan University, Edmonton, Canada

Summary, Canadian students of varying cultural backgrounds took an online survey for course credit examining the dream experiences (Dream Intensity Scale, DIS; Yu, 2010) and history of media use, i.e., social media and video gamplay. Recression analyses onto the data found that the role of sex and culture, relative to history of media use, was stronger gest with total DIS scores as well as dream recall and nightmare information, which is often reported in the literature. Media use was also a component of these two dimensions but its role in predicting self-reported dream experiences was stronger for the other types of DIS information. In general the findings with media use seem to fall around age the subject began using social media or gaming as well as their use of MySpace, one of the first social media sites and thus presumably longest used. These findings support Lambrecht, Schredl, Henley-Einion, and Blagrove (2013) in terms of the continuity hypothesis of dreaming and high frequency of an activity resulting in more dream incorporation.

Keywords: video game play, bizarreness; lucid dreaming

Introduction

The current study is an exploratory investigation of the mediating affects that culture may have on the relationship between dreaming and media use, specifically video game play and social media. Video game play and social media warrant investigation because of their increasing popularity.

Culture is a particular factor of interest that was highligh ed in 2013 when the American Psychiatric Association re leased the newest version of their Diagnostic and Statistic Manual with mention of "Video Gaming Disorder" (Ame can Psychiatric Association, 2013). The association's incl sion of Video Gaming Disorder is based in part upon th Journal of Visualized Experiments

#### A Novel Method of Drug Administration to Multiple Zebrafish (Danio rerio) and the Quantification of Withdrawal

Adam Holcombe<sup>1</sup>, Melike Schalomon<sup>1</sup>, Trevor James Hamilton<sup>1</sup>

Department of Psychology, MacEwan University

Correspondence to: Trevor James Hamilton at trevoriameshamilton@gmail.com

**Examining the Gender Effects of Different** 

Incentive Amounts in a Web Survey

URL: http://www.jove.com/video/51851

Keywords: Neuroscience, Issue 93, Zebrafish, Ethanol, Behavior, Anxiety, Pharmacology, Fish, Neuroscience, Drug administration, Scototaxis

Date Published: 11/12/2014

Citation: Holcombe, A., Schalomon, M., Hamilton, T.J. A Novel Method of Drug Administration to Multiple Zebrafish (Danio rerio) and the Quantification of Withdrawal. J. Vis. Exp. (93), e51851, doi:10.3791/51851 (2014).

Anxiety testing in zebrafish is often studied in combination with the application of pharmacological substances. In these studies, fish are routinely netted and transported between home aquaria and dosing tanks. In order to enhance the ease of compound administration, a novel method for

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Shelley Boulianne



signed for spawning were used to transfer groups of the precision and efficiency of dosing, which becomes rocedure for use in a study examining the behavior of In fish exposed to daily-moderate amounts of alcohol ompared to the control group. However, a significant not observed

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ole and may be used in any situation when the behavior

dark test is also a valuable method of assessing

odel organism for behavioral and medical research2,3 n order to characterize their impact on behavior. Various of the zebrafish after the administration of compounds

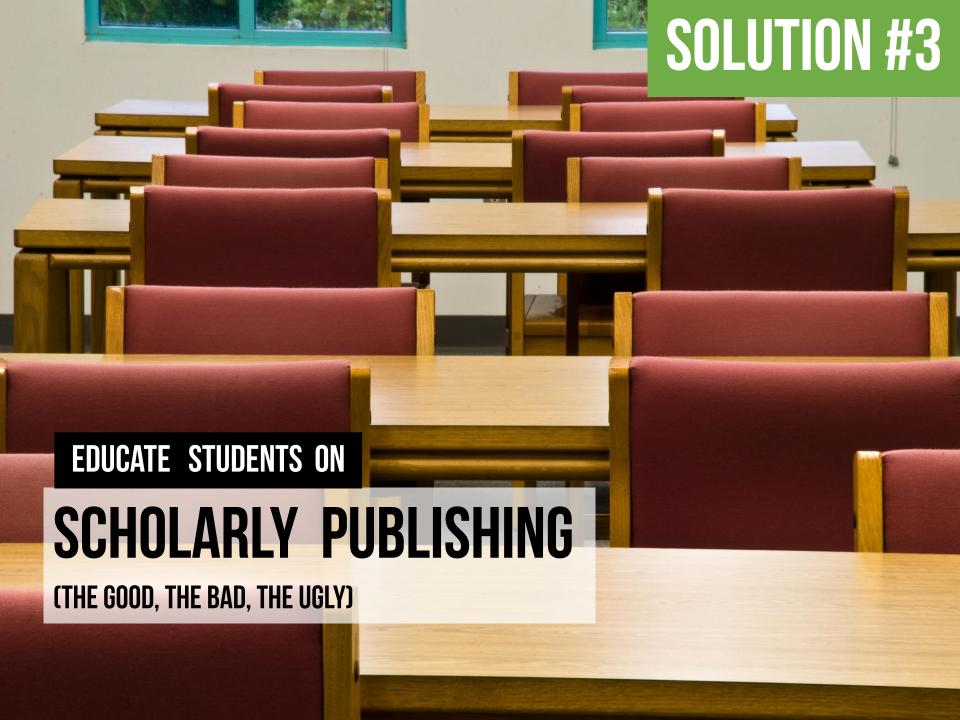
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#### An Overview on Edible Vaccines and Immunization

Naeema Jan', Fouzia Shafi', Omar bin Hameed', Khalid Muzaffar<sup>2</sup>, Shuaib Mohammad Dar<sup>2</sup>, Ishrat Majid<sup>2</sup> and Nayik GA<sup>2\*</sup>

Division of Post Harvest Technology, SKUAST-Kashmir,

<sup>2</sup>Department of Food Engineering & Technology, SLIET,

\*Corresponding author: Nayik GA, Department of Food Engineering & Technology, SLIET, Punjab, India

Received: March 03, 2016; Accepted: June 01, 2016; Published: June 07, 2016

Edible vaccines offer cost-effective, easily administrable, storable and widely acceptable as bio friendly particularly in developing countries. Oral administration of edible vaccines proves to be promising agents for reducing the incidence of various diseases like hepatitis and diarrhea especially in the developing world, which face the problem of storing and administering vaccines. Edible vaccines are obtained by incorporating a particular gene of interest into the plant, which produces the desirable encoded protein. Edible vaccines are specific to provide mucosal activity along with systemic immunity. Various foods that are used as alternative agents for injectable vaccines include cereals (wheat, rice, corn) fruits (bananas) and vegetables (lettuce, potatoes, tomatoes). Thus, edible vaccines overcome all the problems associated with traditional vaccines and prove to be best substitutes to traditional vaccines.

Keywords: Edible vaccines; Transgenic plant; Traditional vaccines

#### Introduction

Vaccines have proved to be boon for the prevention of infectious diseases. In spite of the global immunization programme for children against the six devastating diseases, 20% of infants still remain unimmunized which lead to approximately two million unnecessary deaths per annum, particularly in the far flung and poor parts of the world [1]. This is because of the limitations on vaccine production, distribution and delivery. This problem needs to resolve in order to prevent the spread of infections and epidemics by un-immunized populations in the immunized, safe areas [2]. Immunization for certain infectious diseases, either do not exist or they are unreliable or very expensive like; immunization via DNA vaccines is substitute but is an expensive method, along with some undesirable immune responses. Besides being expensive, these vaccines pose the problem of storage and transportation, as many of them require refrigeration. Hence, there is search for easily administrable, storable, fail-safe and widely acceptable bio friendly vaccines and their delivery systems especially in developing countries. Therefore, as substitutes have to be produced for traditional vaccines, it was envisaged that plants could be promising agents for efficient production system for vaccines, which in turn gave rise to the novel concept of edible vaccines.

#### Concept of Edible Vaccines

Development of edible vaccines involves the process of tomato, lettuce, rice, etc. [4].

and do not need cold-chain maintenance. Edible vaccines can be stored at the site of use thus avoiding long-distance transportation. Syringes and needles are also not required, thus reduces the incidence of various infections [3]. Important advantage of edible vaccines is elimination of contamination with animal viruses-like the mad cow disease, which is a hazard in vaccines developed from cultured mammalian cells, as plant viruses cannot infect humans. Edible vaccines act by stimulating the mucosal as well as systemic immunity, as soon they meet the digestive tract lining. This dual mechanism of action of edible vaccines provide first-line defense against pathogens attacking via mucosa, like Mycobacterium tuberculosis and carriers causing diarrhea, pneumonia, STDs, HIV etc. [1]. Oral administration of edible vaccines to mothers might prove to be useful in immunizing the fetus-in-utero by transplacental movement of maternal antibodies or the infant through breast-feeding. Edible vaccines enable the process of seroconversion in the presence of maternal antibodies, thus playing a possible role in protecting children against diseases like group-B Streptococcus, respiratory syncytial virus (RSV), etc. At present edible vaccines are produced for various human and animal diseases (measles, cholera, foot and mouth disease and hepatitis B, C and E). They can also be used to prevent exceptional diseases like dengue, hookworm, rabies, etc. by combining with other vaccination programmes enabling multiple antigen delivery. Various foods under investigation for use in edible vaccines include banana, potato,

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Email: Gangolf Jobb\* - gangolf@treefinder.de; Arndt von Haeseler - haeseler@cs.uni-duesseldorf.de; Korbinian Strimmer - strimmer@stat.uni-

\* Corresponding author

Published: 28 June 2004

Received: 16 March 2004 Accepted: 28 June 2004

BMC Evolutionary Biology 2004, 4:18 doi:10.1186/1471-2148-4-18

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#### Abstract

Background: Most analysis programs for inferring molecular phylogenies are difficult to use, in particular for researchers with little programming experience.

Results: TREEFINDER is an easy-to-use integrative platform-independent analysis environment for molecular phylogenetics. In this paper the main features of TREEFINDER (version of April 2004) are described. TREEFINDER is written in ANSI C and Java and implements powerful statistical approaches for inferring gene tree and related analyzes. In addition, it provides a user-friendly graphical interface and a phylogenetic programming language.

Conclusions: TREEFINDER is a versatile framework for analyzing phylogenetic data across different platforms that is suited both for exploratory as well as advanced studies.

#### Background

Computational inference of molecular phylogenies has a wide spectrum of applications in the analysis of DNA sequences, ranging from systematic biology to population genetics and comparative genomics [1].

As a result, a large body of theoretical methodology has developed [2], along with numerous specialist software packages. However, often the most advanced of these computer programs typically provide only a very Spartan

available only on the Macintosh platform.

On the other hand, a more experienced user will quickly outgrow the limits of a graphical user interface. Consequently, to facilitate complex sequence analysis corresponding scripting languages have been developed. For example, in PAUP\* all elements of its GUI can also be invoked on the command line. However, for the rapid deployment of specialized phylogenetic analysis tools one

user interface (GUI). Unfortunately, this GUI is currently



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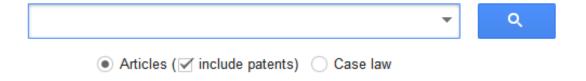
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#### Abstract

#### Objectives

Bleeding is the most common complication of percutaneous nephrolithotomy (PCNL). Injudicious transfusion is frequently performed in current practice, even though it is not always needed. This study aimed to identify the predictive factors of blood loss in the PCNL procedure and evaluate the perioperative transfusion practice.

#### Methods

A prospective study of PCNL was randomly performed by two consultants of endo-urology at our institution. The inclusion criteria were adults with kidney pelvic stones >20 mm or stone in inferior calyx >10 mm or staghorn stone. Those with coagulopathy, under anti-coagulant treatment or open conversion were excluded. A full blood count was taken at baseline and during 12, 24, 36, 72-hours post-operatively. Factors such as stone burden, sex, body surface area, shifting of hematocrit level and amount of blood transfused were

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Results

analyzed statistic

Stone burden was the most influential factor for TBL (p=0.037). Our results revealed that TBL (mL) = -153.379 + 0.229 × stone burden (mm2) + 0.203 x baseline serum hematocrit (%); thus considerably predicted the need for blood transfusion. A total of 87.1% patients did not receive perioperative transfusion, 3.5% received intra-operative transfusion, 7.1% received post-operative transfusion, 23% had both intra and post-operative transfusion, resulting in a cross-



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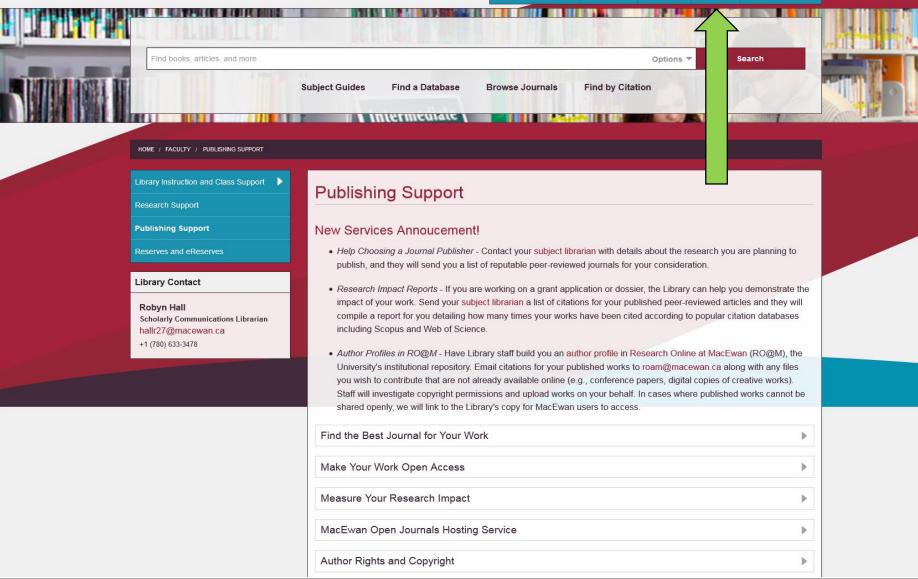
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