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Orientation phenomena for the $1s \rightarrow 2p_{\pm 1}$ atomic collisional excitations in quantum plasmas: Shielding and plasmon coupling

Young-Dae Jung^{1,a)}

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a) Permanent address: Department of Applied Physics, Hanyang University, Ansan, Kyunggi-Do 426-791, South Korea. Electron. J. Phys. Plasmas 19, 113301 (2012)

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The influence of the plasma parameters on the atomic collisional transition model taking into account the shielding effect of the electron-hydrogenic ion is investigated. The model is employed to describe the collisional excitation of the electron and to investigate the variation of the excitation cross-section with the plasma parameter, plasmon density, and the collisional preference of the excitation. The results are also discussed.

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Received 20 9월 2012

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The author gratefully acknowledges Dr. M. Rosenberg for useful discussions and warm hospitality while visiting the Department of Electrical and Computer Engineering at the University of California, San Diego. This research was initiated while the author was affiliated with UCSD as a visiting professor.

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M. J. Fogg, P. Alzarragani, M. Carrondo, M. Coll, S. N. Manicka, N. Tarbouriech, T. ...

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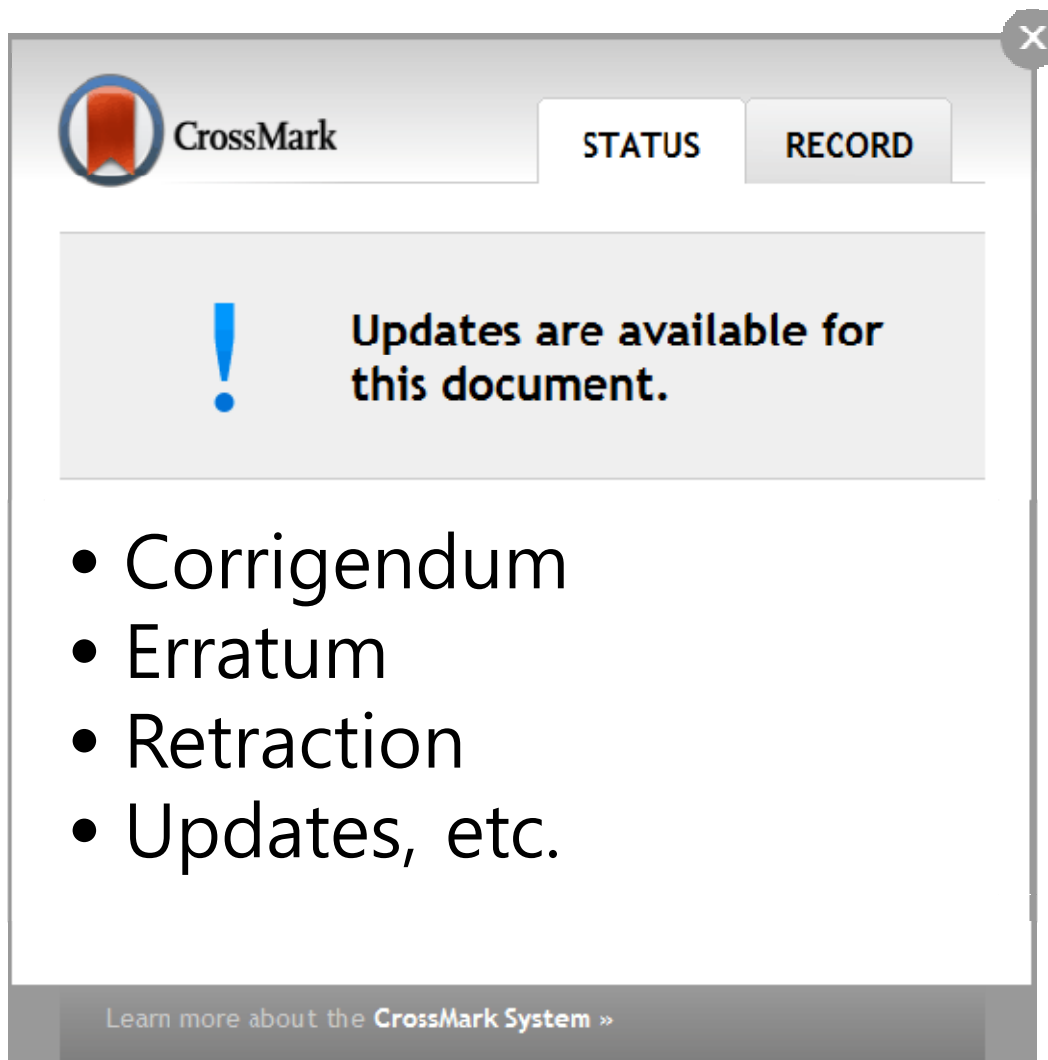
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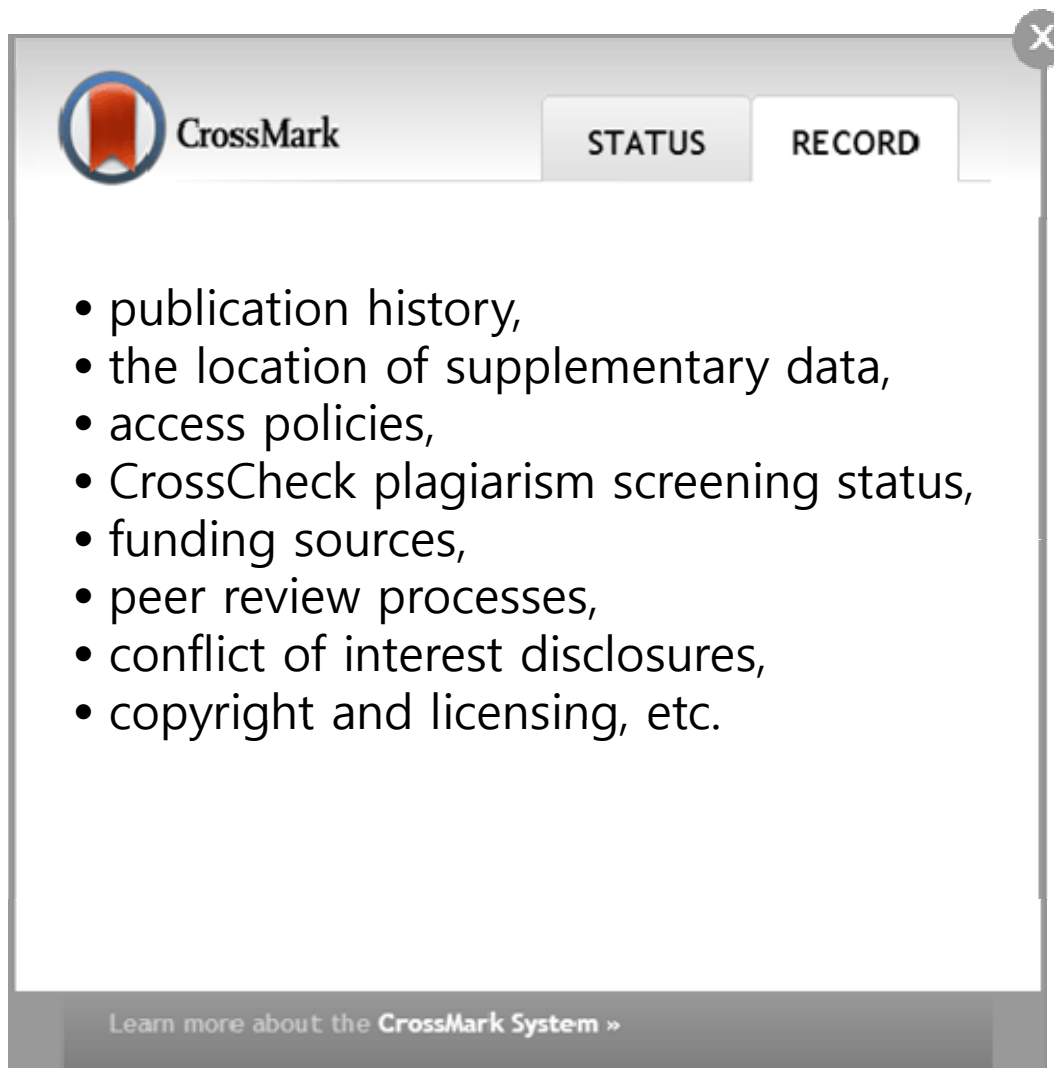
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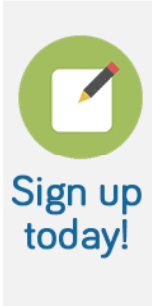
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<http://dx.doi.org/10.1098/rspb.2012.2327>

Received: 1 October 2012
Accepted: 8 November 2012

Subject Areas:
evolution, ecology



Fine-scale local adaptation in an invasive freshwater fish has evolved in contemporary time

Peter A. H. Westley^{1,†}, Eric J. Ward² and Ian A. Fleming¹

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²National Marine Fisheries Service, Northwest Fisheries Science Center, National Oceanic and Atmospheric Administration, 2725 Montlake Boulevard East, Seattle, WA 98112-2097, USA

Adaptive evolutionary change in only a few generations can increase the ability of non-native invasive species to spread, and yet adaptive divergence is rarely assessed in recently established populations. In this study, we experimentally test for evidence of fine-scale local adaptation and growth among three populations of an invasive freshwater fish. Reciprocal transplants and common-garden experiments revealed differences in habitat quality, in two of three populations, and evidence of increased survival in 'home' versus 'away' environments. A Bayesian occupancy model fitted to mark-recapture data supported the 'local' versus 'foreign' criterion of local adaptation. In 15 pairwise comparisons of performance were consistent ($p < 0.001$). Patterns in growth were less clear, though evidence of location- and population-level effects. Although divergent ecological selection are not known in this system, we argue that adaptive divergence—reflected in the survival of local individuals—can occur in a small number of populations and only a few kilometres apart on the landscape.

1. Introduction



Shareholder Wealth Maximization and Social Welfare: A Utilitarian Critique

Thomas M. Jones¹
University of Washington

Will Felps
University of New South Wales

ABSTRACT: Many scholars and managers endorse the idea that the primary purpose of the firm is to make money for its owners. This shareholder wealth maximization objective is justified on the grounds that it maximizes social welfare. In this article, the first of a two-part set, we argue that, although this shareholder primacy model may have been appropriate in an earlier era, it no longer is, given our current state of economic and social affairs. To make our case, we employ a utilitarian moral standard and examine the apparent logical sequence behind the link between shareholder wealth maximization and social welfare. Upon close empirical and conceptual scrutiny, we find that utilitarian criteria do not support the shareholder model; that is, shareholder wealth maximization is only weakly linked to social welfare maximization. In view of the dubious validity of this sequential argument, we outline some of the features of a superior corporate objective—a variant of normative stakeholder theory. In the second article, we will advance and defend our preferred alternative and then discuss some institutional arrangements under which it could be implemented.



Orientation phenomena for the $1s \rightarrow 2p_{\pm 1}$ atomic collisional excitations in quantum plasmas: Shielding and plasmon coupling

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The influence of the plasmon coupling on the orientation phenomena for the $1s \rightarrow 2p_{\pm 1}$ atomic collisional transitions is investigated in quantum plasmas. The effective Hamiltonian model taking into account the quantum and plasma shielding effects is applied to describe the electron-hydrogenic ion interaction in quantum plasmas. The semiclassical method is employed to describe the states of the projectile electron and target system in order to investigate the variation of the collisional orientation parameter as a function of the impact parameter, plasmon coupling parameter, collision energy, and Debye length. The variation and preference of the excitation probabilities due to the shielding and plasma coupling effects are also discussed. © 2012 American Institute of Physics. [<http://dx.doi.org/10.1063/1.4765693>]

I. INTRODUCTION

The electron-impact excitation and ionization^{1–6} of atom and ion have received considerable attentions since these processes have been widely used in many areas of physics, such as astrophysics, atmospheric physics, atomic and molecular physics, chemical physics, and plasma physics. Especially, the electron-impact excitation process in plasmas has been used as a plasma diagnostic tool since the line emissions arising out of the atomic transitions provide useful information on the physical properties of the surrounding plasma environments. It is known that an experimental investigation shows the possibility of the detection of radiative transitions from the $p_{\pm 1}$ ($m = \pm 1$) excited states to the ground state.⁷ Since then the orientation phenomena in the atomic transitions have been actively investigated because these phenomena

nano-scale objects, such as quantum conductor plasmas, and laser produced plasmas, it would be expected that the atomic transitions due to the collisional excitations might be quite different from those in weak plasmas due to the influence of the plasmon coupling effects. Thus, in this paper, the plasmon effects on the orientation phenomena for the $2p_{\pm 1}$ collisional transitions in hydrogenic ions are investigated. The effective interaction potential¹¹ including the plasmon coupling effect is applied to describe the electron-hydrogenic ion interaction Hamiltonian. The semiclassical method is employed to describe the states of the projectile electron and target system in order to investigate the variation of the collisional orientation parameter as a function of the impact parameter, plasmon coupling parameter, collision energy, and Debye length. The variation and preference of the excitation probabilities due to the shielding and plasma coupling effects are also discussed.



Acta Crystallographica Section D
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addenda and errata

Application of the use of high-throughput technologies to the determination of protein structures of bacterial and viral pathogens. Corrigendum

M. J. Fogg,^a P. Alzari,^b M. Bahar,^c I. Bertini,^d J.-M. Betton,^a W. P. Burmeister,^e C. Cambillau,^f B. Canard,^g M. A. Carrondo,^h M. Coll,^h S. Daenke,^c O. Dym,ⁱ M.-P. Egloff,^j F. J. Enguita,^k A. Geerlof,^l A. Haouz,^b T. A. Jones,^k Qingjun Ma,^l S. N. Manicka,^l M. Migliardi,^d P. Nordlund,^l R. J. Owens,^c Y. Peleg,^l G. Schneider,^m R. Schnell,^m D. I. Stuart,ⁿ N. Tarbouriech,^o T. Unge,^k A. J. Wilkinson,^a M. Wilmanns,^l K. S. Wilson,^a O. Zimhony^l and J. M. Grimes^{c*}

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Technologique de Luminy, Case 932163, Avenue de Luminy 13288, Marseille CEDEX 09, France, ^gHost-Pathogen Interactions Group, Macromolecular Crystallography Laboratory, ITQB, Ap. 127, 2781-901 Oeiras, Portugal, ^hDepartament de Biologia Estructural Instituto de Biologia Molecular de Barcelona, Jordi Girona, 1808034 Barcelona, Spain, ⁱThe Israel Structural Proteomics Center, The Department of Structural Biology, Weizmann Institute of Science, Rehovot 76100, Israel, ^jEMBL-Hamburg Outstation, Notkestrasse 85, D-22603 Hamburg, Germany, ^kDepartment of Molecular Biology of the University Biomedical Center, S-751 24 Uppsala, Sweden, ^lDepartment of Biochemistry and Biophysics, Stockholm University, S-106 91 Stockholm, Sweden, and ^mDepartment of Medical Biochemistry and Biophysics, Karolinska Institutet, SE-109 51 Stockholm, Sweden. Correspondence e-mail: jonathan@strubi.ox.ac.uk

A correction is made to the name of one of the authors in Fogg *et al.* (2006), *Acta Cryst. D* **62**, 1196–1207.

In the article by Fogg *et al.* (2006) the middle initial of one of the authors was omitted. The correct author's name should be M. A. Carrondo as given above.

References

Fogg *et al.* (2006). *Acta Cryst. D* **62**, 1196–1207.

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Hui Wang¹, Yang Sui², Fred Luthans³, Danni Wang^{4,*}, Yanhong Wu⁵

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High activity enables life on a high-sugar diet: blood glucose regulation in nectar-feeding bats

Detlev H. Kelm^{1,*}, Ralph Simon², Doreen Kuhlow³, Christian C. Voigt¹ and Michael Ristow^{3,4}

Author Affiliations

*Author for correspondence (dkelm1@gmx.de).

Abstract

High blood glucose levels caused by excessive sugar consumption are detrimental to mammalian health and life expectancy. Despite consuming vast quantities of sugar-rich floral nectar, nectar-feeding bats are long-lived, provoking the question of how they regulate blood glucose. We investigated blood glucose levels in nectar-feeding bats (*Glossophaga soricina*) in experiments in which we varied the amount of dietary sugar or flight time. Blood glucose levels increased with the quantity of glucose ingested and exceeded 25 mmol l⁻¹ blood in resting bats, which is among the highest values ever recorded in mammals fed sugar quantities similar to their natural diet. During normal feeding, blood glucose values decreased with increasing flight time, but only fell to expected values when bats spent 75 per cent of their time airborne. Either nectar-feeding bats have evolved mechanisms to avoid negative health effects of hyperglycaemia, or high activity is key to balancing blood glucose levels during foraging. We suggest that the coevolutionary specialization of bats towards a nectar diet was supported by the high activity and elevated metabolic rates of these bats.

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Acta Crystallographica Section C
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Hanan Fathy, Maha M Amin, Abdel-Hady El-Gilany

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Grant information: The author(s) declared that no grants were involved in supporting this work.

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Chemical Engineering Journal
 Volume 217, 1 February 2013, Pages 273–280

An ozone assisted process for treatment of EDC's in biological sludge

M. Muz^a, M.S. Ak^a, O.T. Komesli^{a, b}, C.F. Gökçay^a

^a Department of Environmental Engineering, Middle East Technical University, 06531 Ankara, Turkey
^b Ataturk University, Department of Environmental Engineering, 25250 Erzurum, Turkey

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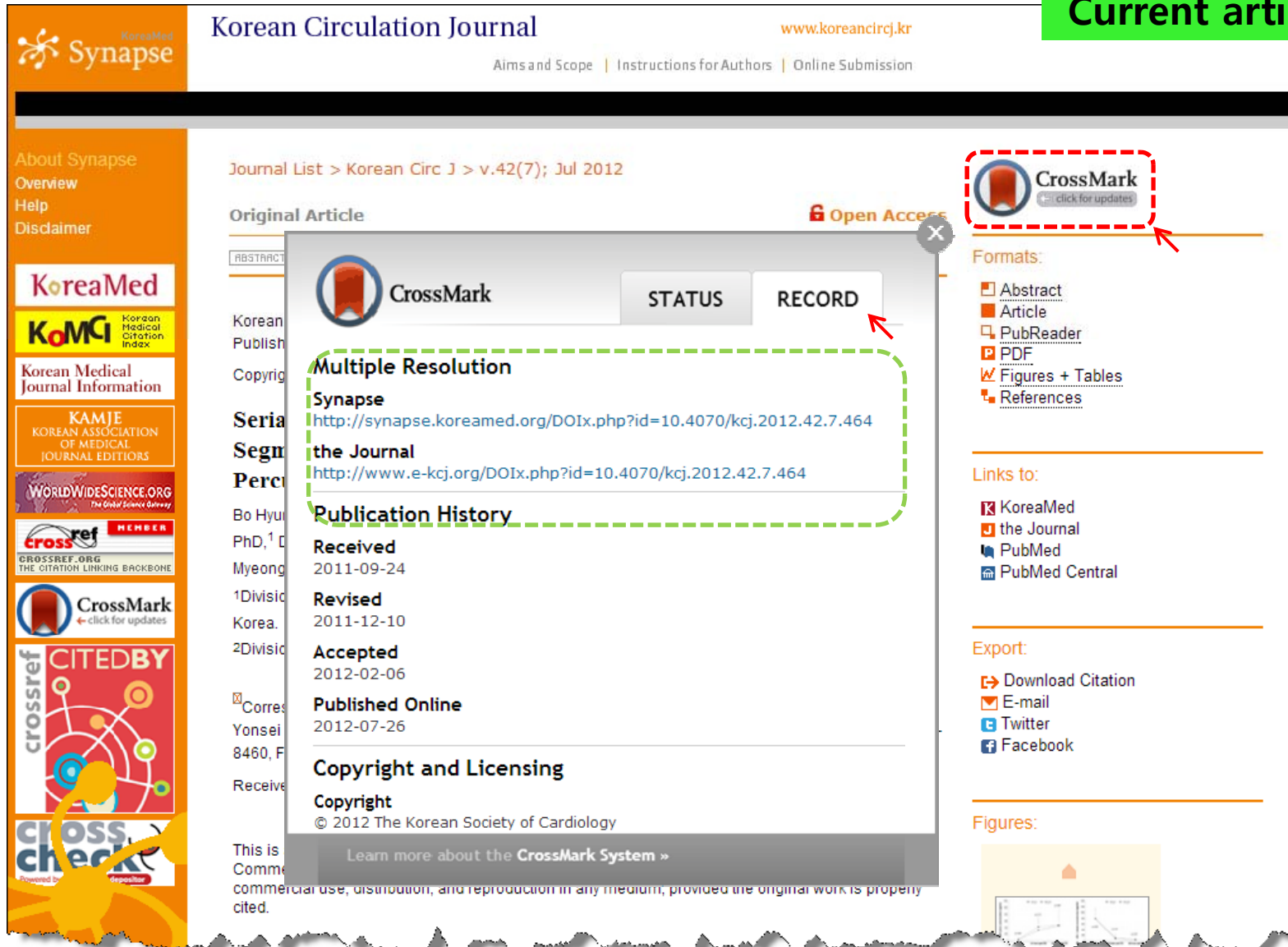
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Retraction: A Novel Carbamoyloxy Arylalkanoyl Arylpiperazine...
Compound (SKL) Inhibits Hyperpolarization-Induced Calcium Release from Nucleotide-Gated Calcium Channels in Root Ganglion Neurons

Gehoon Chung,¹ Tae-Hyung Kim,⁴ Joong Soo Kim,¹ S...

¹National Research Laboratory for Biopharmaceuticals and Physiology, School of Biopharmaceuticals, Seoul National University, Seoul, Korea
²SK Biopharmaceuticals, Seoul, Korea
³Department of Physiology, Seoul National University, Seoul, Korea
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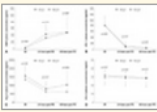
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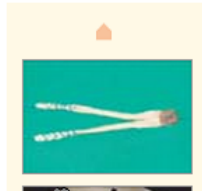
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Clinical Characteristics of Pediatric Thalassemia in Korea: A Single Institute Experience

Che Ry Hong,^{1,2*} Hyoung Jin Kang,^{1,2*}
Ji Won Lee,^{1,2} Hyery Kim,^{1,2}
Nam Hee Kim,^{1,2} Kyung Duk Park,^{1,2}
June Dong Park,¹ Moon-Woo Seong,³
Sung Sup Park,³ Hee Young Shin,^{1,2}
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*Che Ry Hong and Hyoung Jin Kang contributed equally to this work.

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This work was supported by the Interdisciplinary Research Initiatives Program by College of Engineering and College of Medicine, Seoul National University (800-20120020) and by a grant of the Korea Healthcare Technology R&D Project, Ministry of Health & Welfare, Korea (A080588).

Few literatures have elaborated on the clinical characteristics of children with thalassemia from low-prevalence areas. A retrospective analysis was conducted on children genetically confirmed with thalassemia at Seoul National University Children's Hospital in Korea. Nine children (1 α thalassemia trait, 6 β thalassemia minor, 2 β thalassemia intermedia) were diagnosed with thalassemia at median age of 4.3 yr old with median hemoglobin of 9.7 g/dL. Seven (78%) children were incidentally found to be anemic and only 2 with β thalassemia intermedia had presenting symptoms. Five children (56%) were initially misdiagnosed with iron deficiency anemia. Despite the comorbidities due to α thalassemia mental retardation syndrome, the child with α thalassemia trait had mild hematologic profile. Children with β thalassemia intermedia had the worst phenotypes due to dominantly inherited mutations. None of the children was transfusion dependent and most of them had no complications associated with thalassemia. Only 1 child (11%) with codon 60 (T→A) mutation of the *HBB* gene needed red blood cell transfusions. He also had splenomegaly, cholelithiasis, and calvarial vault thickening. Pediatricians in Korea must acknowledge thalassemia as a possible diagnosis in children with microcytic hypochromic hemolytic anemia. High level of suspicion will allow timely diagnosis and managements.

Key Words: α -Thalassemia; β -Thalassemia; Genotype; Phenotype; Child; Korea

This work was supported by the Interdisciplinary Research Initiatives Program by College of Engineering and College of Medicine, Seoul National University (800-20120020) and by a grant of the Korea Healthcare Technology R&D Project, Ministry of Health & Welfare, Korea (A080588).

Original Article

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Improved Detection of Ischemic Heart Disease by Combining High-Frequency Electrocardiogram Analysis with Exercise Stress Echocardiography

Jin-Oh Choi, MD, Sung-A Chang, MD, Sung Ji Park, MD, Sang-Chol Lee, MD, and Seung Woo Park, MD
 Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

Background and Objectives: Because the exercise treadmill test (ETT) based on ST-segment analysis is limited due to low sensitivity and specificity, there has been an interest in the additional analysis of high-frequency components of QRS (HFQRS) for the detection of coronary artery disease (CAD). We sought to evaluate the feasibility and clinical usefulness of HFQRS analysis during exercise stress echocardiography (ESE).

Subjects and Methods: We evaluated 175 patients (age 57±9, 118 men) who performed ESE and either coronary computed tomographic angiography or coronary angiography. ETT was performed using the HyperQ stress system for both conventional ST-segment analysis and HFQRS intensity analysis.

Results: Thirty-two patients (31%) had significant CAD. The sensitivity and specificity of HFQRS analysis were 68.2% and 76.9%, respectively. The combined model, including HFQRS analysis and ESE, provided the best diagnostic accuracy, with the area under the operating characteristics curve (AUC) of 0.948 {95% confidence interval (CI)=0.913-0.984} compared with ST-segment analysis (AUC=0.892, 95% CI=0.592-0.766).

Conclusion: HFQRS analysis during ESE is feasible and may provide additional diagnostic information for the detection of CAD (Korean Circ J 2013;43:674-680)

KEY WORDS: Treadmill test; Echocardiography, stress; Electrocardiography; Coronary artery disease.

Acknowledgments

The study was supported by a grant (No. 2008-10) from the Korean Society of Cardiology.

BSP Ltd. provided technical support for the HyperQ Stress System.

Seventy-one patients were excluded due to poor ECG quality for HFQRS analysis. We assumed that this might be due to noisy signals contaminated during the acquisition of baseline resting echocardiographic images, and tried to exclude these noisy signals by separating the baseline echocardiographic image acquisition from baseline HFQRS measurement processes. After we adopted this exclusion of baseline echocardiogram and HFQRS signal acquisition, cases excluded due to poor ECG quality were substantially reduced.

In our study, the sensitivity of HFQRS analysis was greater than ST-segment analysis, which may suggest a complimentary role for HFQRS analysis to ETT in the diagnosis of significant CAD. Moreover, the independent relationship with significant CAD in multivariable analysis supports its role at the time of ESE. To the best of our knowledge, the feasibility of HFQRS analysis at the time of ESE has been demonstrated for the first time in our study.

such as myocardial perfusion or coronary functional studies is required for HFQRS analysis to be considered a reliable and standard diagnostic test for CAD.

Acknowledgments

The study was supported by a grant (No. 2008-10) from the Korean Society of Cardiology.
 BSP Ltd. provided technical support for the HyperQ Stress System.

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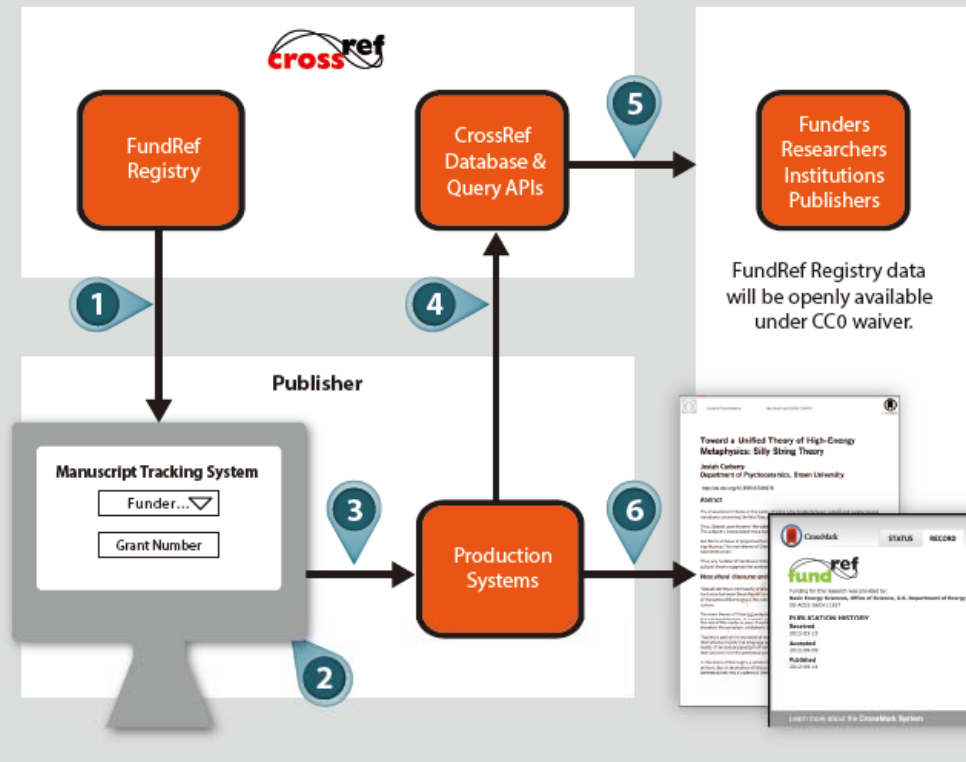
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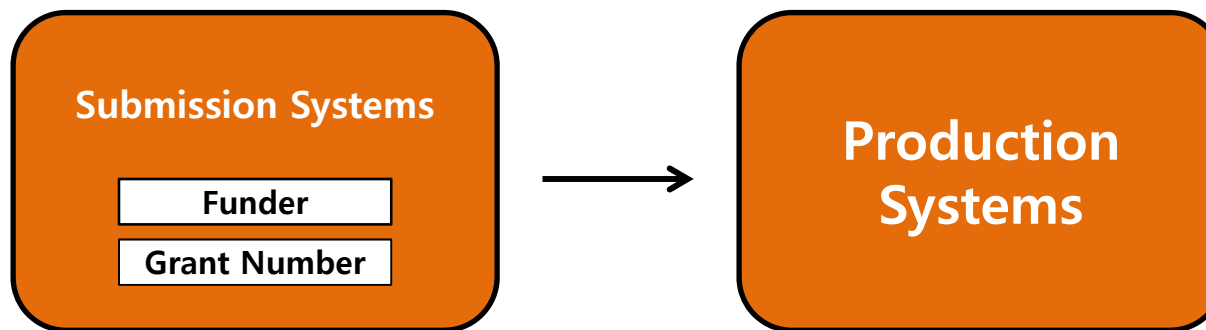
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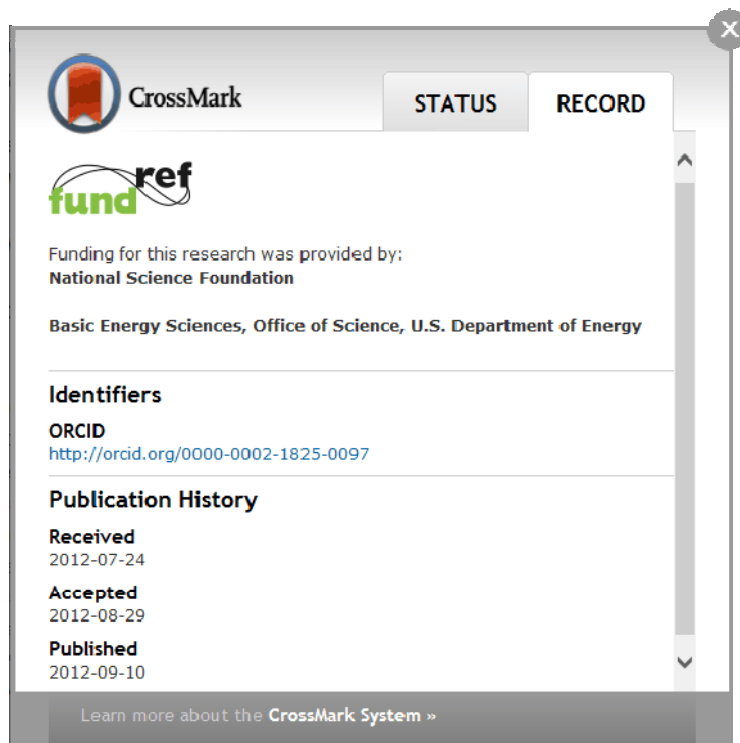
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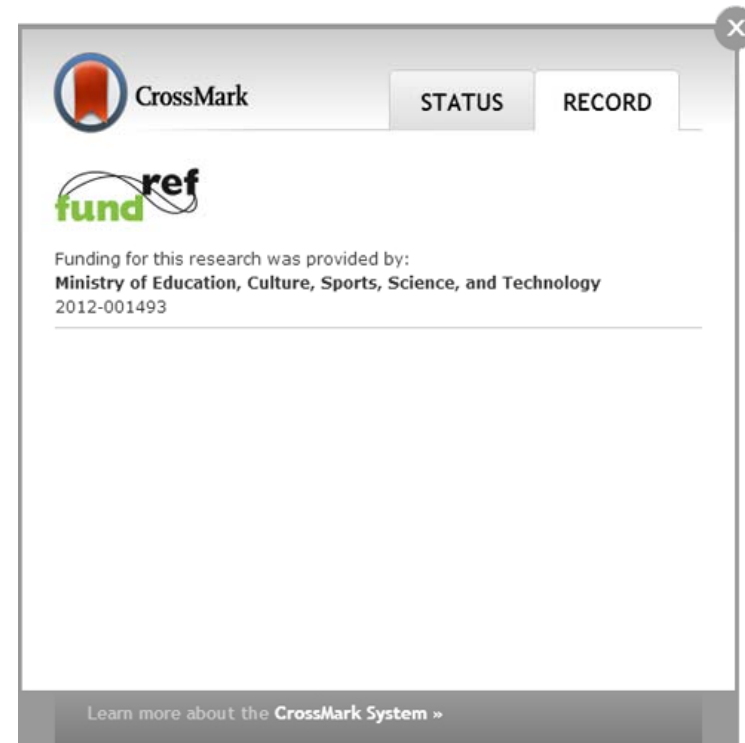
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