

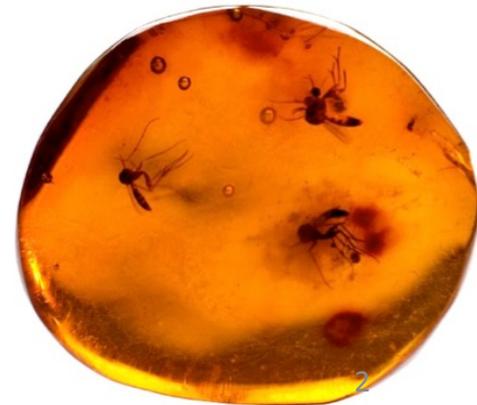
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## E R R A T A.

- P. 43. The title of this Paper should stand thus: "Extract of a Letter from the Rev. *F. J. H. Wollaston*, M. A. F. R. S. (dated Sydney College, Cambridge, Feb. 24, 1784.) to the Rev. *Francis Wollaston*, LL.B. F. R. S. containing the Observation of a luminous Arch."
- P. 93, l. last, Insert "I" before "faw"

# Mistakes happen to all articles



J Med Libr Assoc. Jul 2012; 100(3): 184-189.  
doi: [10.3163/1536-5050.100.3.008](https://doi.org/10.3163/1536-5050.100.3.008)

PMCID: PMC3411255

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[Philip M. Davis, PhD](#)

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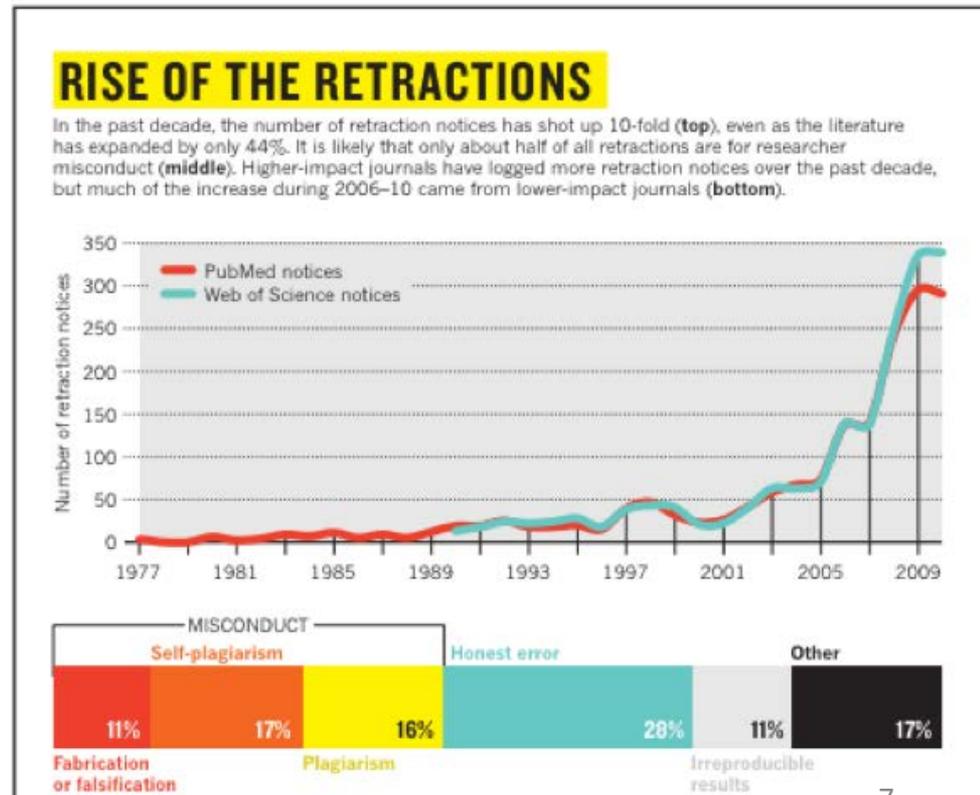
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BMC Biotechnol. 2011; 11: 2.

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Published online Jan 6, 2011. doi: [10.1186/1472-6750-11-2](https://doi.org/10.1186/1472-6750-11-2)



**This article has been retracted**

Retraction in: *BMC Biotechnol.* 2013 July 20; 13: 57 See also: [PMC Retraction Policy](#)

## Heterologous expression, purification and characterization of nitrilase from *Aspergillus niger* K10

Ondřej Kaplan,<sup>#1</sup> Karel Bezouška,<sup>#1,2</sup> Ondřej Plihal,<sup>1</sup> Rüdiger Etrrich,<sup>3</sup> Natallia Kulik,<sup>3</sup> Ondřej Vaněk,<sup>1,2</sup> Daniel Kavan,<sup>1,2</sup> Oldřich Benada,<sup>1</sup> Anna Malandra,<sup>1,4</sup> Ondřej Šveda,<sup>1</sup> Alicja B Veselá,<sup>1</sup> Anna Rinágelová,<sup>1</sup> Kristýna Slámová,<sup>1</sup> Maria Cantarella,<sup>4</sup> Jürgen Felsberg,<sup>1</sup> Jarmila Dušková,<sup>5</sup> Jan Dohnálek,<sup>5</sup> Michael Kotik,<sup>1</sup> Vladimír Křen,<sup>1</sup> and Ludmila Martínková<sup>1</sup>

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### Abstract

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### Background

Nitrilases attract increasing attention due to their utility in the mild hydrolysis of nitriles. According to activity and gene screening, filamentous fungi are a rich source of nitrilases distinct in evolution from their widely examined bacterial counterparts. However, fungal nitrilases have been less explored than the bacterial ones. Nitrilases are typically heterogeneous in their quaternary structures, forming short spirals and extended filaments, these features making their structural studies difficult.

### Results

# But not so clear on PubMed

[BMC Biotechnol.](#) 2011 Jan 6;11:2. doi: 10.1186/1472-6750-11-2.

## Heterologous expression, purification and characterization of nitrilase from *Aspergillus niger* K10.

[Kaplan O<sup>1</sup>](#), [Bezouška K](#), [Plíhal O](#), [Etrich R](#), [Kulík N](#), [Vaněk O](#), [Kavan D](#), [Benada O](#), [Malandra A](#), [Sveda O](#), [Veselá AB](#), [Rinágelová A](#), [Slámová K](#), [Cantarella M](#), [Felsberg J](#), [Dušková J](#), [Dohnálek J](#), [Kotík M](#), [Křen V](#), [Martínková L](#).

### ⊕ Author information

#### Retraction in

[BMC Biotechnol.](#) 2013;13:57.

#### Abstract

**BACKGROUND:** Nitrilases attract increasing attention due to their utility in the mild hydrolysis of nitriles. According to activity and gene screening, filamentous fungi are a rich source of nitrilases distinct in evolution from their widely examined bacterial counterparts. However, fungal nitrilases have been less explored than the bacterial ones. Nitrilases are typically heterogeneous in their quaternary structures, forming short spirals and extended filaments, these features making their structural studies difficult.

**RESULTS:** A nitrilase gene was amplified by PCR from the cDNA library of *Aspergillus niger* K10. The PCR product was ligated into expression vectors pET-30(+) and pRSET B to construct plasmids pOK101 and pOK102, respectively. The recombinant nitrilase (Nit-ANigRec) expressed in *Escherichia coli* BL21-Gold(DE3)(pOK101/pTf16) was purified with an about 2-fold increase in specific activity and 35% yield. The apparent subunit size was 42.7 kDa, which is approx. 4 kDa higher than that of the enzyme isolated from the native organism (Nit-ANigWT), indicating post-translational cleavage in the enzyme's native environment. Mass spectrometry analysis showed that a C-terminal peptide (Val<sub>327</sub> - Asn<sub>336</sub>) was present in Nit-ANigRec but missing in Nit-ANigWT and Asp<sub>298</sub>-Val<sub>313</sub> peptide was shortened to Asp<sub>298</sub>-Arg<sub>310</sub> in Nit-ANigWT. The latter enzyme was thus truncated by 46 amino acids. Enzymes Nit-ANigRec and Nit-ANigWT differed in substrate specificity, acid/amide ratio, reaction optima and stability. Refolded recombinant enzyme stored for one month at 4°C was fractionated by gel filtration, and fractions were examined by electron microscopy. The late fractions were further analyzed by analytical centrifugation and dynamic light scattering, and shown to consist of a rather homogeneous protein species composed of 12-16 subunits. This hypothesis was consistent with electron microscopy and our modelling of the multimeric nitrilase, which supports an arrangement of dimers into helical segments as a plausible structural solution.

**CONCLUSIONS:** The nitrilase from *Aspergillus niger* K10 is highly homologous (≥86%) with proteins deduced from gene sequencing in *Aspergillus*

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BMC Physiol. 2010 May 12;10:7. doi: 10.1186/1472-6793-10-7.

**The effect of marathon on mRNA expression of anti-apoptotic and pro-apoptotic proteins and sirtuins in male recreational long-distance runners.**

Marfe G<sup>1</sup>, Tafani M, Pucci B, Di Stefano C, Indelicato M, Andreoli A, Russo MA, Sinibaldi-Salimei P, Manzi V.

Author information

Abstract

**BACKGROUND:** A large body of evidence shows that a single bout of strenuous exercise induces oxidative stress in circulating human lymphocytes leading to lipid peroxidation, DNA damage, mitochondrial perturbations, and increased apoptosis, which may increase the physiological load on the extent of apoptosis in primary cells derived from blood samples.

**RESULTS:** Blood samples were collected from ten healthy amateur runners before and after a marathon. mRNA levels of bcl-2, bax, heat shock protein (HSP)70, Cu-Zn superoxide dismutase (SOD), SIRT3 and SIRT4 (Sirtuins) RNA levels were determined by Northern Blot analysis. Mn-SOD, Cu-Zn SOD, iNOS, GADD45, bcl-2, forkhead box O (FOXO3A) and SIRT4 expression (P < 0.0001).

**CONCLUSION:** These data suggest that the physiological load imposed in recreational runners may interfere with sirtuin expression.

No mention here ...

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**Retraction** Open Access

**RETRACTION: The effect of marathon on mRNA expression of anti-apoptotic and pro-apoptotic proteins and sirtuins family in male recreational long-distance runners**

Gabriella Marfe<sup>1\*</sup>, Marco Tafani<sup>2</sup>, Bruna Pucci<sup>2</sup>, Carla Di Stefano<sup>1</sup>, Manuela Indelicato<sup>2</sup>, Angela Andreoli<sup>3</sup>, Matteo Antonio Russo<sup>2,4</sup>, Paola Sinibaldi-Salimei<sup>1</sup> and Vincenzo Manzi<sup>5</sup>

\* Corresponding author: Gabriella Marfe [gabriellamarfe@libero.it](mailto:gabriellamarfe@libero.it) Author Affiliations

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2 Department of Cellular and Molecular Pathology, IRCCS San Raffaele Pisana, Via dei Bonacolsi snc, 00163, Rome, Italy

3 Human Nutrition Unit, University of Rome "Tor Vergata" Via Montpellier 1, 00133, Rome, Italy

4 10

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Diseases of the Colon & Rectum:

September 2014 - Volume 57 - Issue 9 - p 1151

doi: 10.1097/01.dcr.0000453521.88176.59

Retraction

## LigaSure Hemorrhoidectomy Versus Stapled Hemorrhoidopexy: A Prospective, Randomized Clinical Trial: Retraction

Madoff, Robert D. M.D.; Editor-in-Chief

CONTENT NOT FOR REUSE

DISEASES OF THE COLON & RECTUM VOLUME 57: 9 (2014)

1151

often is associated with an outcome measure such as mortality from a leak. Second, there is most likely a reduction in case-mix bias and less risk adjustment required. Moreover, process measures result in a larger effect because they promote everyone to improve, not just those performing poorly.

Although the authors attribute the improved outcomes to an increase in the percentage of patients having a leak test, there may be other changes that occurred over time, because SCOAP is a broad quality initiative, and there probably were other quality measures adopted by hospitals

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5. Rubin HR, Pronovost P, Diette GB. The advantages and disadvantages of process-based measures of health care quality. *Int J Qual Health Care.* 2001;13:469-474.
6. Lilford RJ, Brown CA, Nicholl J. Use of process measures to monitor the quality of clinical practice. *BMJ.* 2007;335:648-650.

## RETRACTION

### LigaSure Hemorrhoidectomy Versus Stapled Hemorrhoidopexy: A Prospective, Randomized Clinical Trial: Retraction

This article has been retracted in full due to duplicate publication in the June 2010 issue of *Minerva Chirurgica* as follows.

Sakr MF, Moussa MM, Elserafy M. Ligasure hemorrhoidectomy versus Stapled hemorrhoidopexy: a prospective randomized clinical trial. *Minerva Chir.* 2010;65:251-258.

Robert D. Madoff, M.D.  
Editor-in-Chief

## REFERENCE

1. Sakr M, Moussa MM, Elserafy M. LigaSure hemorrhoidectomy versus stapled hemorrhoidopexy: a prospective, randomized clinical trial. *Dis Colon Rectum.* 2010;53:1161-1167.

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## REVIEW

**Strategic Reading, Ontologies, and the Future of Scientific Publishing**

Allen H. Renear\*, Carole L. Palmer

Author Affiliations

\*To whom correspondence should be addressed. E-mail: [renear@illinois.edu](mailto:renear@illinois.edu)

## ABSTRACT

The revolution in scientific publishing that has been promised since the 1980s is about to take place. Scientists have always read strategically, working with many articles simultaneously to search, filter, scan, link, annotate, and analyze fragments of content. An observed recent increase in strategic reading in the online environment will soon be further intensified by two current trends: (i) the widespread use of digital indexing, retrieval, and navigation resources and (ii) the emergence within many scientific disciplines of interoperable ontologies. Accelerated and enhanced by reading tools that take advantage of ontologies, reading practices will become even more rapid and indirect, transforming the ways in which scientists engage the literature and shaping the evolution of scientific publishing.

A [retraction](#) for this article has been published in *BMC Biotechnology* 2013, 13:57

Research article

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## Heterologous expression, purification and characterization of nitrilase from *Aspergillus niger* K10

Ondřej Kaplan<sup>1†</sup>, Karel Bezouška<sup>12†</sup>, Ondřej Plíhal<sup>1</sup>, Rüdiger Ettrich<sup>3</sup>, Natallia Kulik<sup>3</sup>, Ondřej Vaněk<sup>12</sup>, Daniel Kavan<sup>12</sup>, Oldřich Benada<sup>1</sup>, Anna Malandra<sup>14</sup>, Ondřej Šveda<sup>1</sup>, Alicja B Veselá<sup>1</sup>, Anna Rinágelová<sup>1</sup>, Kristýna Slámová<sup>1</sup>, Maria Cantarella<sup>4</sup>, Jürgen Felsberg<sup>1</sup>, Jarmila Dušková<sup>5</sup>, Jan Dohnálek<sup>5</sup>, Michael Kotik<sup>1</sup>, Vladimír Křen<sup>1</sup> and Ludmila Martínková<sup>1\*</sup>

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Retraction

## RETRACTION: The effect of marathon on mRNA expression of anti-apoptotic and pro-apoptotic proteins and sirtuins family in male recreational long-distance runners

Gabriella Marfe<sup>1\*</sup>, Marco Tafani<sup>2</sup>, Bruna Pucci<sup>2</sup>, Carla Di Stefano<sup>1</sup>, Manuela Indelicato<sup>2</sup>, Angela Andreoli<sup>3</sup>, Matteo Antonio Russo<sup>2,4</sup>, Paola Sinibaldi-Salimei<sup>1</sup> and Vincenzo Manzi<sup>5</sup>

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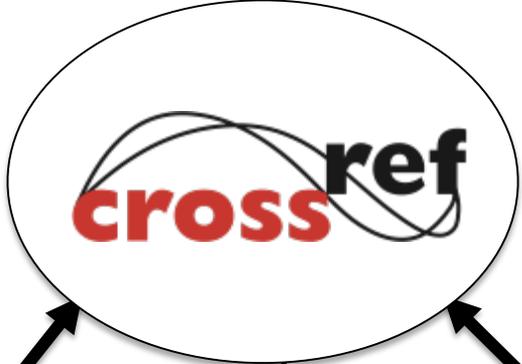
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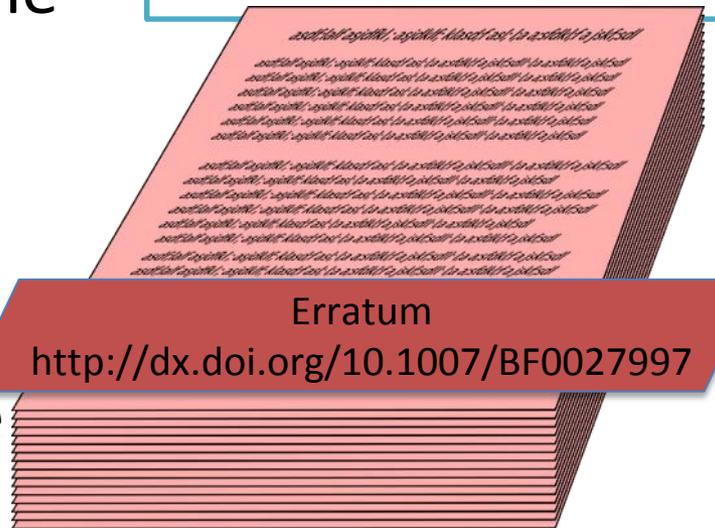
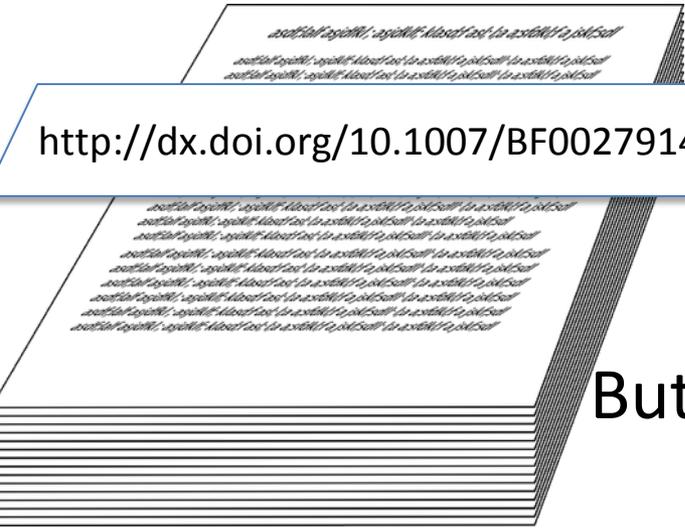
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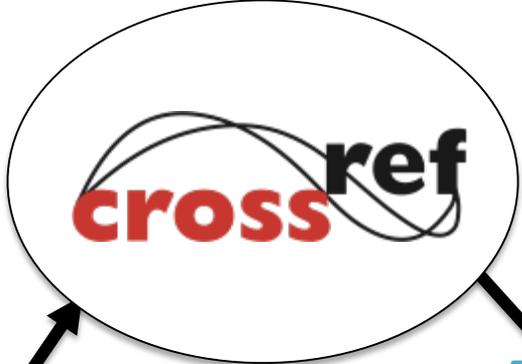
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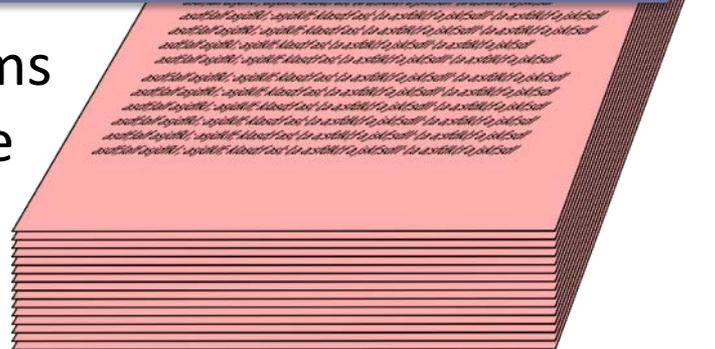
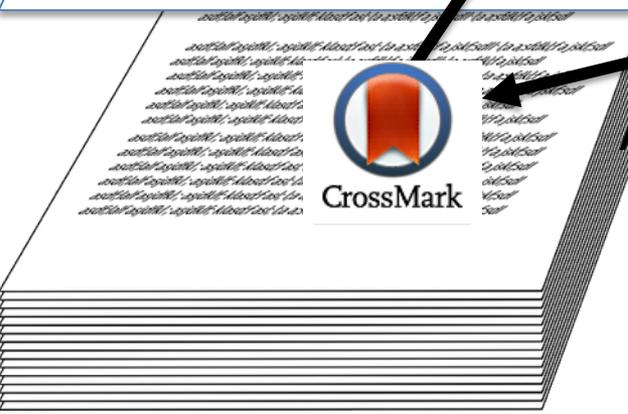


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# XMRV is present in malignant prostatic epithelium and is associated with prostate cancer, especially high-grade tumors

Robert Schlberg<sup>a,1</sup>, Daniel J. Choe<sup>b</sup>, Kristy R. Brown<sup>a</sup>, Harshwardhan M. Thaker<sup>b</sup> and Ila R. Singh<sup>a,b,2</sup>

Author Affiliations

Author Notes

Communicated by Stephen P. Goff, Columbia University College of Physicians and Surgeons, New York, NY, July 20, 2009  
(received for review April 29, 2009)

A retraction has been published

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## Abstract

Xenotropic murine leukemia virus–related virus (XMRV) was recently discovered in human prostate cancers and is the first gammaretrovirus known to infect humans. While gammaretroviruses have well-characterized oncogenic effects in animals, they have not been shown to cause human cancers. We provide experimental evidence that XMRV is indeed a gammaretrovirus with protein composition and particle ultrastructure highly similar to Moloney murine leukemia virus (MoMLV), another gammaretrovirus. We analyzed 334 consecutive prostate resection specimens, using a quantitative PCR assay and immunohistochemistry (IHC) with an anti-XMRV specific antiserum. We found XMRV DNA in 6% and XMRV protein expression in 23% of

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# XMRV is present associated with p

Robert Schlaberg<sup>a,1</sup>, Daniel

Author Affiliations

Author Notes

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Abstract Authors & Info

## Abstract

Xenotropic murine leukemia virus and is the first gammaretrovirus oncogenic effects in animals, evidence that XMRV is indeed similar to Moloney murine consecutive prostate resection specimens, using a quantitative PCR assay and immunohistochemistry (IHC) with an anti-XMRV specific antiserum. We found XMRV DNA in 6% and XMRV protein expression in 23% of prostate cancers. XMRV proteins were expressed primarily in malignant epithelial cells, suggesting that retroviral infection may be directly linked to tumorigenesis. XMRV infection was associated with prostate cancer, especially higher grade cancers. We found XMRV infection to be independent of a common



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## Computational materials discovery: the case of the W–B system

Xi-Yue Cheng, Xing-Qiu Chen,\* Dian-Zhong Li and  
Yi-Yi Li

Shenyang National Laboratory for Material Science, Institute of Metal Research,  
Chinese Academy of Sciences, 72 Wenhua Road, Shenyang, Liaoning 110016,  
People's Republic of China  
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Received 19 August 2013

Accepted 1 October 2013

By means of variable-compositional evolutionary algorithms, in combination with first-principles calculations, the compositions, structures and mechanical properties of the W–B system have been theoretically investigated. As well as confirming the experimental observations (including their crystal structures) for the four known compounds  $W_2B$ , WB,  $WB_2$  and  $WB_3$ , the new stable compound  $W_8B_7$  and two nearly stable compounds,  $W_2B_3$  and  $WB_4$ , have also been predicted in the ground state. The elastic properties and estimated Vickers hardnesses of all these borides have been systematically derived. The results show that, among these borides, *hP6*- $WB_2$  exhibits the largest ultra-incompressibility along the *c* axis, with the highest  $C_{33}$  value (953 GPa, comparable with that of the most incompressible diamond). *hP16*- $WB_3$  exhibits the highest hardness of 36.9 GPa, in good agreement with the experimentally measured data from 28.1 to 43.3 GPa, close to the superhard threshold, and *oC8*-WB shows the highest bulk modulus of about 350 GPa. The new stable compound  $W_8B_7$  crystallizes in the monoclinic *mP15* phase, with infinite zigzag B chains

trial-and-error experimental efforts, yielding new materials discoveries (Woodley & Catlow, 2008; Oganov, 2011; Curtarolo *et al.*, 2013). To date, many examples have found successful applications in a wide range of technologies, such as superhard materials, Li-ion batteries, thermoelectrics, cathode materials, catalysts, topological insulators *etc.* In particular, in combination with state-of-the-art *ab initio* applications based on density functional theory (DFT), which has been extremely successful for deriving and predicting the structural and phase stabilities of ordered compounds, a range of advanced compound prediction methods (including composition and structure prediction methods) have been developed recently, *i.e.* USPEX (Glass *et al.*, 2006; Oganov & Glass, 2006; Lyakhov *et al.*, 2010), AFLOW (Curtarolo *et al.*, 2012), AIRSS (Pickard & Needs, 2011), MAISE (Kolmogorov *et al.*, 2012), Adaptive GA (Deaven & Ho, 1985; Wu *et al.*, 2011) and CALYPSO (Li *et al.*, 2013). Utilizing evolutionary-algorithm, data-mining or optimization techniques (De Fontaine & Ehrenreich, 1994; Drautz *et al.*, 2004; Abraham & Probert, 2006; d'Avezac & Zunger, 2008; Ghosh *et al.*, 2008; Hart & Forcade, 2008), these have become accessible, effective and powerful methods, especially for dealing with the issues of crystal structure discovery and optimization (Woodley & Catlow, 2008; Oganov, 2011; Curtarolo *et al.*, 2013), even though this was considered to be an impossible mission 20 years ago (Moddox, 1988).

During the past few years, numerous studies have been devoted to the identification of a series of exotic high-pressure phases (Oganov *et al.*, 2009; Pickard & Needs, 2010; Fujihisa *et al.*, 2013; Pickard *et al.*, 2013), accompanied by the impressive and lasting developments of structure search methods. In fact, other classes of ambient-pressure materials (including many well known and accessible binary systems) need to be double-checked as a matter of urgency. For instance, the high-strength and superhard compound  $CrB_4$  was synthesized and characterized more than 40 years ago as crystallizing in the orthorhombic *oI10* structure, based on powder X-ray diffraction (XRD) patterns (Andersson & Lundström, 1968). More recently, the combined strategy of an evolutionary structure



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Pattern of reference type according to academic discipline in Korea  
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Pattern of reference type according to academic discipline in Korea

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## Abstract

The Korea Citation Index (KCI) is a citation index established in January, 2015. This article aims to analyze the pattern of academic discipline. Journals of the KCI cover the fields of science, science, and multi-disciplinary, agriculture and fisheries, and medical health. The pattern of reference type of each discipline is different. The reference type of each discipline was 51.1%, while the reference type of each discipline was 11.0%, 10.0%, 7.0%, and 11.0%, respectively. In social science, the portion of journal articles was 53.1% and books 7.3%. In medical health, the portion of journal article was 87.6%. Journals' average impact factors in 2011 were 0.9 for social science, 0.8 for arts and sports, 0.55 for interdisciplinary, 0.5 for agriculture and fisheries and humanities, 0.45 for natural science, 0.32 for engineering, and 0.3 for medical health. Researchers in humanities in Korea use books as a primary source of



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