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Published online 5 July 2010 | *Nature* **466**, 167 (2010) | doi:10.1038/466167a

News

Journals step up plagiarism policing

Cut-and-paste culture tackled by CrossCheck software.

[Declan Butler](#)

Major science publishers are gearing up to fight plagiarism. The publishers, including Elsevier and Springer, are set to roll out software across their journals that will scan submitted papers for identical or paraphrased chunks of text that appear in previously published articles. The move follows pilot tests of the software that have confirmed high levels of plagiarism in articles submitted to some journals, according to an informal survey by *Nature* of nine science publishers. Incredibly, one journal reported rejecting 23% of accepted submissions after checking for plagiarism.

Over the past two years, many



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在過去的兩年裏，許多出版商（包括Nature Publishing Group）已開始試用CrossCheck。CrossCheck是一個反剽竊檢測服務系統，它是由協同3,108家商業和學術團體的非營利機構CrossRef在2008年6月發行的。該項服務系統使用了由iParadigms生產的iThenticate反剽竊軟體，可以將其整篇文章與其他文章進行比對。出版商在訂購CrossCheck時必須同意與它分享他們自己的原稿資料庫。迄今為止，已有83家出版商加入了此資料庫，目前已經發展到來自48517種刊物和書籍的25.5百萬文章。

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敬愛的 Judy Chiu,✉

您已經被您的指導教師，Ni-yu Liao，註冊至 Turnitin 課程 "NTHU-檢測論文"。✉

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感謝您使用 Turnitin。✉

Turnitin 團隊✉

登入首頁

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The screenshot shows the Turnitin website homepage. At the top left is the Turnitin logo. On the right, there is a login section with a red circle around it. This section includes a text input field for '電子郵件' (Email) with a '建立帳戶' (Create Account) link below it, a text input field for '密碼' (Password) with a '獲取密碼' (Get Password) link below it, and a red '登錄' (Login) button. Below these is a language dropdown menu set to '繁體中文 (Beta)'. A navigation bar below the logo contains links for '首頁' (Home), '產品' (Products), '客戶' (Customers), '合作夥伴' (Partners), '技術服務' (Technical Services), and '關於我們' (About Us). A search bar is on the right of the navigation bar. The main content area features the title '評估寫作的綜合解決方案' (Comprehensive solution for writing assessment) and three bullet points: '✓ 確保原創性' (Ensure originality), '✓ 数字化评分' (Digital grading), and '✓ 促进同行评鉴' (Promote peer review). Below these are two red buttons: '欲了解更多' (Learn more) and '取得報價' (Get quote). The background of the main content area shows several overlapping screenshots of the Turnitin interface displaying a document titled 'To Speak or To Sign' with various annotations and a sidebar on the right.

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學生首頁

The screenshot shows the Turnitin student homepage. At the top right, there is a navigation bar with links for 'Effe Zou', '用戶資訊', '訊息', '學生', '繁體中文 (Beta)', '最新消息', '說明', and '登出'. Below this is the Turnitin logo and a navigation menu with '所有課程' and '註冊至課程'. A breadcrumb trail shows '現在位置: 首頁'. A section titled '關於此頁' explains the page's purpose. Below is a table for 'National Tsing Hua University: eLearning-center' with columns for '課程代碼', '課程名稱', '指導教師', '狀態', and '從課程除名'. The table contains one row for course '3857580' with name 'NTHU-檢測論文' and instructor 'Liao, Ni-yu'. The '狀態' column has a dropdown menu, and the '從課程除名' column has a trash icon. Numbered callouts 1-8 point to these elements: 1 (User info), 2 (Messages), 3 (Language), 4 (Turnitin help), 5 (All courses), 6 (Course name), 7 (Status dropdown), and 8 (Remove course icon).

課程代碼	課程名稱	指導教師	狀態	從課程除名
3857580	NTHU-檢測論文	Liao, Ni-yu	啟用	🗑️

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繳交作業步驟

National Tsing Hua University: eLearning-center

課程代碼	指導教師	狀態	從課程除名
3857590	Liao, Ni-yu	啟用	

****上傳論文步驟：**

- 1.選擇課程
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- B.作業繳交開始/截止日期

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作業收件匣	資訊	日期	類似處
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檢測論文二	①	開始 2011年06月20日 5:41PM 到期 2012年11月01日 2:59PM 發表 2012年11月01日 2:59PM	提交 查看
檢測論文三	①	開始 2011年06月20日 5:44PM 到期 2012年11月01日 2:59PM	提交 查看

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- 圖檔無法比對

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現在檢視：首頁 > 英文寫作

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文稿標題：英文新聞

文稿代碼：252104942

作者：Zou, Effie

點選”到學習歷程檔案”檢視作業原創性

到學習歷程檔案

his morning at [ConQuesT](#), I attended a panel called “The Road to Publishing” . The panel consisted of Eric Reynolds, publisher and founder of Kansas City area small press [Hadley Rille Books](#), authors [Robert Collins](#), [Shannon Butcher](#), [Sherry Foley](#), and [Sharon Lee](#), and author/editor [Gardner Dozois](#).

The panel focused on how authors should go from having written a book to getting it into

原創性比對報告

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停留在課程首頁的任何項目以獲得更多資訊。

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作業收件匣: 英文寫作			
資訊	日期	類似處	
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原創性報告

原創性報告-文件檢視工具

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originality GradeMark PeerMark 英文期刊
經由 EFFIE ZOU

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gallate (PG), and *tert*-butylhydroquinone (TBHQ) are commonly used as synthetic antioxidants in lipid-containing foods⁽¹⁸⁾. In the last two decades, there has been an increasing interest in replacing these synthetic antioxidants with natural alternatives⁽¹⁹⁾, because of their possible role as promoters of carcinogenesis⁽²⁰⁾. Fruits, vegetables, spices, nuts, seeds, leaves, roots, and barks have thus been explored as potential sources of natural antioxidants⁽⁷⁾.

Water caltrop hulls are now commonly used as fertilizer or trash in Taiwan and other Asian countries. Finding a possible way to increase the utilization of water caltrop hulls as a source of antioxidants is the primary target of this study. The objectives of this study were to investigate the total phenolics and flavonoids content of the water caltrop hulls, and to compare the effect of freeze-drying and hot air-drying on the antioxidant properties of water caltrop hulls.

MATERIALS AND METHODS

I. Materials

Raw water caltrops were obtained from a local supplier in Tainan, Taiwan. Fresh caltrop hulls were manually removed and separated into three lots. The first lot of fresh caltrop hulls was blended by a domestic blender and used as the FS sample. The remaining sample lots were freeze-dried (FD) or hot air-dried (at 60°C) (HD) and powdered to obtain a 100 mesh size. The water caltrop hull samples (FS, FD, and HD) were stored at 4°C until further analysis was carried out.

II. Methanolic Extraction

Fifty grams of each treatment of water caltrop hulls, including FD, HD, and FS, were extracted by stirring with a magnetic stirrer and 250 mL of methanol at 25°C for 24 hr. The extract was filtered through Whatman No. 1 filter papers for removal of hull particles. The residue was re-extracted with 250 mL of methanol and filtrated. The extracts were pooled together and vacuum dried at 30°C. The dried extracts were powdered and stored at -20°C for the analysis of antioxidant activity.

(Sigma Chem. Co., USA). Estimation of the total phenolics content was carried out in triplicate and averaged.

IV. Total Flavonoid Content

Total flavonoid content was determined by the colorimetric method of Christel *et al.*⁽²²⁾ Methanolic extract (0.5 mg) was mixed with 0.5 mL of 2% aluminum chloride (Sigma Chem. Co., USA) ethanol solution, and then incubated at room temperature for 1 hr. The absorbance was measured at 430 nm using a Hitachi U2000 UV-visible spectrophotometer (Hitachi Co., Japan). Total flavonoid contents were calculated using quercetin equivalent (g QE /100 g dry matter) (Sigma Chem. Co., USA) from a calibration curve.

V. Free-radical Scavenging Ability

The scavenging ability of methanolic extracts on 1,1-diphenyl-2-picrylhydrazyl (DPPH, Sigma Chem. Co., USA) free radicals was estimated according to the method of Yamaguchi *et al.*⁽²³⁾. An aliquot of methanolic extracts (50 mg/ml), α -tocopherol (vitamin E, Sigma Chem. Co., USA) (50 mg/mL), or butylated hydroxytoluene (BHT, Sigma Chem. Co., USA) (50 mg/mL) was mixed with a 100 mM Tris-HCl buffer (400 μ L, pH 7.4) and then added to 500 μ L of 250 mM DPPH in ethanol, respectively. The mixture was shaken vigorously and left to stand for 20 min at room temperature in the dark. The absorbance of the resulting solution was measured at 517 nm against an aliquot blank. The scavenging ability was calculated as follows:

$$\text{Scavenging ability (\%)} = \left[\frac{(\Delta A_{517} \text{ of control} - \Delta A_{517} \text{ of sample})}{\Delta A_{517} \text{ of control}} \right] \times 100$$

IC₅₀ (half-inhibition concentration) was calculated as the antioxidant concentration required for providing 50% of antioxidative activity⁽²⁴⁾. In other words, the lower IC₅₀ values indicated the higher antioxidative activity in the methanolic extracts.

VI. Chelating Effects on Cupric Ions

The chelating effect was determined according to the method of Yang *et al.*⁽²⁵⁾. Two milliliter of the test solution,

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were extracted by stirring with a magnetic stirrer and 250 mL of methanol at 25°C for 24 hr. The extract was filtered through Whatman No. 1 filter papers for removal of hull particles. The residue was re-extracted with 250 mL of methanol and filtrated. The extracts were pooled together and vacuum dried at 30°C. The dried extracts were powdered and stored at -20°C for the analysis of antioxidant

1

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activity. III.

Total Phenolics Content Total phenolics content in the methanolic extracts of three water caltrops hulls were determined according to the method of Sato et al. (21) with minor modifications. One milligram of methanolic extracts was mixed with 400µL of 10-fold diluted Folin-Ciocalteu reagent

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3

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[S.-T. Chou. "Antioxidative Activity and Safety of 50% Ethanolic Red Bean Extract \(Phaseolus radiatus L. var. Aurea\)", Journal of Food Science, 1/2003](#)

(Sigma Chem.

Co, USA). After 3 min of incubation, 40µL of 10% sodium carbonate was added and allowed to stand for 1 hr at 30°C. The absorbance at 735 nm was measured and converted to total phenolic content, according to the calibration curve of gallic acid (g GAE / 100 g dry matter)

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(Sigma Chem.

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and one pair of short spines in the abdomen. 66

The water caltrop meat is covered with thick jet-black outer hulls, shaped like horns protruding from the head of a buffalo. The outer hull is hard, making it difficult to peel off to obtain the internal white. 22

ruit (2).

Water caltrop is one of the most popular vegetables in Asia, due to its special taste and medical function, and it is found in Taiwan, China and parts of Southeast Asia. 2

ue to high activity of enzymes and phenolics content, the color of water caltrop hulls * Author for correspondence.

Tel: +886-4- 2287 -1665;

asily changes from the original contain

a great quantity of non-nu

henolic contents (4-6).

2 6% 符合 (publications) 關閉

Chiang, P.Y.. "Effect of pulverization on the antioxidant activity of water caltrop (*Trapa taiwanensis* Nakai) pericarps", LWT - Food Science and Technology, 201003

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the reducing power and cupric ions chelating ability. The fractions 1 and 5 contained significantly higher total phenolics and total flavonoids than fraction 2-4 ($p < 0.05$). Keywords Water caltrop pericarp Pulverization Antioxidant activity Total phenolics Total flavonoids 1 Introduction

Water caltrop is one of the most popular vegetables in Asian countries due to its special taste and medical functions, and it is indigenous to Taiwan, China and parts of Southeast Asia

(Takano & Kadono, 2005; Tulysthani, Boondee, & Mahawanich, 2005). The pericarps of

water caltrop are commonly discarded as fertilizer in Taiwan and Asian countries.

There are many evidences showing that antioxidants from fruits and nuts, such as polyphenolic, play an important role in the prevention of cancer and cardiovascular

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