



**University of  
Leicester**

# **Electronic detection of plagiarism**

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**Web Resources Development Officer**

# Outline

- Context
- JISC Plagiarism Detection Service (TurnitinUK)
- Safeassign
- Pilot and trials
- Full implementation
- Results

# JISC Plagiarism Detection Service TurnitinUK

- Search for matching text
- National database
- Integration through Blackboard
- Student submission
- Adopted October 2004

# Report generation

Inbox for: Project eSubmission

show:      low % ↔ high %

delete  download  move to... show: new  submit Roster Sync

<input type="checkbox"/>	author	title	report	grade	gm	file	paper id	date
<input type="checkbox"/>	Anonymous,	<a href="#">student_3.doc</a>	50%	--	--	.doc	351337	24-05-06
<input type="checkbox"/>	Anonymous,	<a href="#">student_28.doc</a>	42%	--	--	.doc	351362	24-05-06
<input type="checkbox"/>	Anonymous,	<a href="#">student_1.doc</a>	42%	--	--	.doc	351353	24-05-06
<input type="checkbox"/>	Anonymous,	<a href="#">student_24.doc</a>	27%	--	--	.doc	351340	24-05-06
<input type="checkbox"/>	Anonymous,	<a href="#">student_15.doc</a>	25%	--	--	.doc	351346	24-05-06
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<input type="checkbox"/>	Anonymous,	<a href="#">student_8.doc</a>	21%	--	--	.doc	351357	24-05-06
<input type="checkbox"/>	Anonymous,	<a href="#">student_2.doc</a>	21%	--	--	.doc	351332	24-05-06

[Link to Blackboard for live demo](#)

# Originality report

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student\_28.doc by Anonymous  
Processed on 24-05-06 2:53 PM BST ID: 351362 Word Count: 4986

Overall Similarity Index: 42% [exclude quoted](#) [exclude bibliography](#) mode: show highest matches together

**1** human genetic engineering will be appropriate and applicable to a wide variety of traits. It could be more powerful than cloning and therefore more attractive to more people. However, it will also

result in such troubling questions than the prospect of

**2** cloning. The strong attention give to human cloning throughout the world indicated that people

**1** 25% match (archived internet from 06/19/03) <http://www.anth.org>

**2** 6% match (internet) <http://dukemednews.duke.edu>

**3** 4% match (student papers from 03/18/04) Submitted to University of Leeds

**4** 4% match (internet) <http://www.un.int>

# Side by side comparison

So human cloning is still enormously troubling people as many think of it as

**unethical in itself and dangerous as a precedent.** 4  
Opponents **of human cloning**

tend to think that

**it constitutes unethical experimentation on a child to be subjected him or her to enormous risks of bodily and developmental abnormalities.** 4 Since human cloning leads the clone in some cases with certain **genetic form of a person who has already lived, it**

has been thought that cloning is a threat on human individuality. Moreover, it has been believed that women's body are used as a product as they are

for any purpose -is enormously troubling. It is

**unethical in itself and dangerous as a precedent.**  
The possible creation **of a human** being through **cloning**

raises many ethical concerns.

**It constitutes unethical experimentation on a child-to-be, subjecting him or her to enormous risks of bodily and developmental abnormalities.** It threatens human individuality, deliberately creating the clone with the **genetic makeup of a person who has already lived. it**

risks making women's bodies a commodity, with women being

# Blackboard submissions

The screenshot displays the Blackboard interface for the University of Leicester. At the top left is the university logo and name. Navigation links for Home, Help, and Logout are in the top right. A search bar is also present. Below the navigation bar are tabs for My Institution, Courses, Content Collection, Scholar, and myLibrary. The main content area shows the breadcrumb path: [PHYSIOLOGY PROJECTS \(BS0004\)](#) > [PROJECT GUIDELINES](#). The page title is "Project guidelines" with a book icon. A sub-section titled "Submission of Project" features a document icon and a prominent deadline: **Deadline: 6th May 2008, 4.00pm.** The text below the deadline states: "You should produced THREE top-quality copies of your project report, one for yourself and two to be given and signed into the Biological Sciences Undergraduate Office (Adrian Building G21) by Tuesday 6 May 2008. **You must also submit an electronic copy of your project**, following the instructions on this site by the same deadline. You **MUST** submit **BOTH paper and electronic copies** in order for submission to be complete." Further text explains the consequences of missing the deadline: "Failure to submit your project write-up by this deadline, without good reason, will result in imposition of the biological sciences policy on late work. A deduction from your total mark (after imposition of any penalty for over-long work or incorrect presentation) of 10 marks for the first day and 5 marks per day thereafter." It also notes that extensions are only granted by the Director of Studies, [Dr Jon Scott](#), based on medical evidence or other extenuating circumstances. Finally, it states that failure to adhere to presentation requirements will result in a deduction of 5 marks, and that projects will be scanned for plagiarism.

University of Leicester

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## Project guidelines

### Submission of Project

**Deadline: 6th May 2008, 4.00pm.**

You should produced THREE top-quality copies of your project report, one for yourself and two to be given and signed into the Biological Sciences Undergraduate Office (Adrian Building G21) by Tuesday 6 May 2008. **You must also submit an electronic copy of your project**, following the instructions on this site by the same deadline. You **MUST** submit **BOTH paper and electronic copies** in order for submission to be complete.

Failure to submit your project write-up by this deadline, without good reason, will result in imposition of the biological sciences policy on late work. A deduction from your total mark (after imposition of any penalty for over-long work or incorrect presentation) of 10 marks for the first day and 5 marks per day thereafter.

Extensions of the project deadline may ONLY be granted by the Director of Studies, [Dr Jon Scott](#). Any extensions will be based on medical evidence or other extenuating circumstances outlined to the Director in advance of the submission date. Computer problems will not be a valid reason for late submission.

Failure to adhere to the requirements of presentation will result in a deduction of 5 marks from your total mark.

Your project will be scanned for plagiarism. Plagiarism is dealt with severely and if proven could result in the denial of your final degree.

# Disclaimer



## Project eSubmission

The DEADLINE for submission is 4.00pm, Tuesday 6 May 2008.

If you believe you have unintentionally submitted an incomplete or incorrect file then you should contact Jon Scott (js50) or Jo Badge (jlb34) AS SOON AS POSSIBLE.

### IMPORTANT NOTE CONCERNING PLAGIARISM

By submitting your work using this link you are declaring:

"I confirm that I understand the University's regulations regarding plagiarism and that this is my own work. It has not been copied from any other person's work (published or unpublished), and has not previously been submitted for assessment."


>> [View/Complete](#)

# Safeassign

- Free tool with Blackboard, automatic inclusion with v8 (summer 08)
- Mydropbox buyout
- Microsoft windows live search

The Matching Index shows the percentage of the paper that matched other sources.

### Paper Information

Author: Todd Moe C1  
Title: sample doc 1.htm  
Matching:  100%

Assignment: Demo Assignment 1  
Submitted: 2006-04-04 16:58:12 EST  
Paper ID: 41429








Save report to disk:   
Print version:   
Direct link: 

Print Version is a text-only formatted version that is accessible and optimized for printing.

### Suspected Sources

Click on a source to view the original, or click on the magnifying glass to see the source highlighted in the text below.

 Highlight All  Unhighlight All

- 1  [http://www.mydropbox.com/get\\_paper2.pl?id=173022&digest=e7f5045f1cdf95f3ad7f8977d52a9a50](http://www.mydropbox.com/get_paper2.pl?id=173022&digest=e7f5045f1cdf95f3ad7f8977d52a9a50) 
- 2  <http://www.netessays.net/viewpaper/27185.html> 
- 3  [http://www.mydropbox.com/get\\_paper2.pl?id=173023&digest=aa71c6bd185cf2d2b484fb6917d5a3cb](http://www.mydropbox.com/get_paper2.pl?id=173023&digest=aa71c6bd185cf2d2b484fb6917d5a3cb) 
- 4  <http://www.the-innovation-group.com/ChemProfiles/Calcium%20Chloride.htm> 
- 5  <http://www.peterschemical.com/Calcium%20Chloride.htm> 
- 6  [http://www.dchem.co.kr/english/product/p\\_basic/p\\_basic03.htm](http://www.dchem.co.kr/english/product/p_basic/p_basic03.htm) 
- 7  <http://www.calciumchloride.com/concrete.shtml> 

Click on each Suspected Source to see the full corresponding source.

These features will give you a direct URL to this report that you can then email to others.

Click the magnifying glass icon to highlight the Paper Text material that matched to that particular source.

Use the Reprocess icon to rerun the report without checking against those sources indicated by the check boxes.

 Reprocess the paper without the selected sources

### Paper Text

Click on the text to see more info about the source.

1 Prejudism in the 1930s, down in the Southern United States, was not good

2 Calcium chloride is used for such things as dust control, road deicing, and to assist in oil and gas drilling. 3 It is easily manufactured for a variety of sources, underground brines in Michigan, a by-product of hydrochloric acid streams, and soda ash can harbor calcium chloride. For years the market was supplied by three major manufactures- Dow Chemical, General Chemical, and Tetra Technologies- all of which produce such a high-volume that it creates oversupply and poor prices. These companies already produced roughly 1.5 million tons per year and out of that only about 1 million tons are used. In 1995, Ambar Incorporated decided that they were going to enter the calcium chloride market. They spent over \$60 million on supplies and opened behind schedule in 1997. Then North America experienced the warm and low precipitation winters in 1999 and 2000, there was an incredibly low demand for calcium chloride and the company failed. (paper mill)

4 In recent years, the market demand for calcium chloride has shifted. Consumption within the largest market segment, deicing, is heavily dependent on weather conditions. A sharp decline in this market has occurred over recent years as a succession of mild winters lowered demand. Deicing consumption was 38 percent of total US end use during 1994, but declined to 30 percent in 1997, and then 22 percent in 2000. During this time, demand for calcium chloride in oil and gas exploration increased from 4 percent to 17 percent. Unless there is a change in the general weather pattern, this demand mix is expected to continue. While the calcium chloride market experienced strong demand from increased oil and gas exploration for the past couple of years, lower prices crude oil and gas this year will adversely affect the demand for drilling fluids, and with this, calcium chloride as well. Industry capacity is more than adequate to meet future demands as the industry's operating rate is about 60 percent. (Proquest)

Necrosis of the skin after contact with calcium chloride has been described in a variety of situations, including that of oil field workers and prolonged electroencephalographic testing (contact paste).[1,2,3] Circumscribed dystrophic dermal calcification was reported for the first time in 1935 and may follow the application of dry calcium or calcium-containing solutions.[4] The authors report a case of percutaneous penetration of a defrosting, industrial calcium salt, which was followed by deep-dermal thigh necrosis in a child. This uncommon injury raised concern about child abuse. (finarticles)

Paper Text is the actual text from the submitted paper.

Highlighted text indicates what portions of the Paper Text corresponds to which source.

Numbers indicate which Suspected Source this text matched with.



DNMT3B genes. The DNMT3B gene is large and contains 12 exons. Some of these exons may undergo alternative splicing giving rise to alternative DNMT3B genes. The DNMT3B polypeptide is 840 or 777 amino acid residues (differences in sizes are due to the alternative splicing). The C-terminal region contains highly conserved DNA methyltransferase and the N-terminal region contains a cysteine-rich domain. Mutations causing abnormal function of DNMT3B gives rise to a autosomal recessive disorder known as Immunodeficiency-centromeric instability-facial anomalies syndrome (ICF). The splicing mutation which causes ICF leads to addition of 3 amino acids at codon 744. Sufferers of ICF have many genetic problems, including facial dysmorphism, mild developmental delay, a flat nasal bridge, protrusion of the tongue, mental retardation and a poor immune system. These symptoms are mainly due to defective methylation of satellites at the juxtacentromeric regions of chromosomes 1, 9 and 16. These chromosomes are usually rich in methylated cytosine residues but because of the absence of DNMT3B the methyltransferase activity is lost and the methylation is reduced by approximately 95%. The abnormal methylation of the DNA leads to decondensation of the centromeres and hence rearrangement of the DNA.

Another disorder involving DNA methylation is Rett Syndrome. This disease is due to a mutation in the gene encoding MeCP2 (Methyl-CpG-Binding Protein 2). This protein binds to the methylated CpGs and is involved in the repression of transcription. 80% of the individuals with Rett syndrome have a mutation in exons 3 and 4 of the MeCP2 gene. The MeCP2 gene is located in humans at the Xp28 loci and contains 4 exons. Exons 3 and 4 code for the repressor. MeCP2 is a 53kD protein consisting of 492 amino acids. The majority of these amino acids are basic, aiding phosphorylation sites. MeCP2 protein is highly expressed in the brain and alternative polyadenylation in the 3' UTR (un-translated region) can produce an array of transcripts expressed in the human brain. In sufferers of Rett Syndrome, the function of MeCP2. As a result, DNA methylation does not occur, genes are not silenced as usual and over expression results.

Rett Syndrome is an X-linked dominant disorder. Only one copy of the mutant gene needs to be present to display the symptoms of the disease. Mutations in MeCP2 are lethal in males because males only have one copy of the X chromosome so compensation cannot occur like in does in females. Rett Syndrome affects 1 in 15,000 liveborn girls and it is thought that between 70-95% of all cases are sporadic and so will only occur once in the family and are caused by spontaneous mutation. However, if the mother is a carrier there is a 50% chance that she will have an affected daughter. The symptoms of Rett Syndrome are split up into 4 stages. The first stage begins when the child is between 6 and 12 months old. Up until now the girl would have developed normally. The child develops very similar symptoms to severe autism and is very slow at learning simple hand skills. Stage 2 occurs between the ages of 1 and 3 and the child develops severe breathing difficulties and 80% of the sufferers have regular seizures. One prominent symptom is the constant wringing of the fingers. Stage 3 sees the complete loss of communication and an increase in the frequency of the seizures. The growth of the child's head is slowed and the child has a curvature of the spine. By stage 4 the child is confined to a wheelchair and the motor deterioration continues.

The finding of MeCP2 as the cause for Rett Syndrome has allowed tests to be developed for detection of the disease before birth, allowing preparation for therapy or the choice of a termination.

Matching: 64%

Uploaded Manuscript:	Rett Syndrome affects 1 in 15,000 liveborn girls and it is thought that between 70-95% of all cases are sporadic and so will only occur once in the family and are caused by spontaneous mutation
Internet Source:	Between 70-95% of Rett syndrome cases are sporadic therefore will only occur once in the family

# Safeassign

## Concerns with safeassign

- % probability confusing
- No option to remove quotes / references
- 'Side by side' equivalent view limited
- Reports generated not stable

# Context at Leicester

- 100 taught postgraduate students on 5 MSc courses
- 600 undergraduate students on 12 degree streams
- 85 members academic staff involved in teaching 57 modules, 4 departments

# Turnitin Pilot and trials

## 1. Limited pilot

- Retrospective anonymous trial
- Nov 2004
- Limited scope
- 240 pieces of work submitted
- Undergraduate, PhD, MSc, test pieces

## 2. Live trial

- Jan – May 2005
- 513 pieces of work submitted
- 14 modules (voluntary)
- Undergraduate, MSc

# Types of plagiarism detected

- Cut and paste
- Patchwork writing
- Close paraphrasing
- Collusion
- Inter-year copying?

# Full implementation

Results reviewed by Board of Studies

- Requirement for all 2nd and 3rd year undergraduate work to be submitted for scanning 2005/6
- Integration with key skills teaching
- 2006/7 some first year work included
- 2007/8 additional first year module included

# Key Skills teaching

## Compulsory first year key skills course

- Note taking
- Referencing
- Bibliographic searches
- Plagiarism activity (Willmott & Harrison, 2003)
- Plagiarism detection demonstration
- Subject specific [online tutorial](#)

# Results

<i>Academic year</i>	<i>Detection</i>	<i>Items</i>	<i>Plagiarism cases</i>
2003/2004	Pilot	97	11
2004/2005	Live Trial on 14 modules	513	34
2005/2006	all 2 <sup>nd</sup> and 3 <sup>rd</sup> yr	1430	21
2006/2007	as 05/06 plus 1 <sup>st</sup> yr work	-	63

# Acknowledgements

Jon Scott, Director of Studies

Stuart Johnson, Student Learning Centre