

Plagiarism and how to avoid it?

السرقۃ العلمیة وکیفیة تجنبها

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Presentation outline

- What is plagiarism
- Types of plagiarism
- Why we plagiarize?
- Consequences
- How to avoid plagiarism
 - Out commitment not to plagiarize
 - Using software to check extent of plagiarism in our writing

Plagiarism definition

- ➡ Plagiarism is derived from a Latin word: “**Plagiare**”, which means **to kidnap**. **خطف**



The Oxford English Dictionary defines plagiarism as follows:

“The action or practice of taking someone else's work, idea, etc., and passing it off as one's own; literary theft. **سرقة أدبية**”

(Oxford English Dictionary: <http://dictionary.oed.com>)

“the appropriation of another person’s ideas, processes, results, or words without giving appropriate credit”

(Source: MSU’s *Procedures Concerning Allegations of Misconduct in Research and Creative Activities*
http://rio.msu.edu/June_2009_Procedures.pdf

Appropriation means using or taking something that is not yours

Plagiarism:

- to present **someone else's** original **thoughts or ideas** as **your own**
- using **someone else's** exact **words** without proper **citation (reference) or quotation** “ “.
- to present as **new and original** an idea or product derived from an **existing source**

It is:

- An act of **fraud**. **النصب والاحتيال**
- Involves both:
 - **stealing** **سرقة** someone else's work and
 - **lying** **كذب** about it afterward.
- It involves **cheating** **غش** other.

Can words and Ideas be stolen???

“Yes”

- Original ideas are intellectual property الملكية الفكرية.
- Protected by copyright laws قوانين حقوق التأليف والنشر just like original inventions الاختراعات الأصلية.
- Almost all forms of expression fall under copyright حماية حق المؤلف protection.



The heart of the problem of plagiarism is

MISREPRESENTATION

Presenting something as yours when it is not

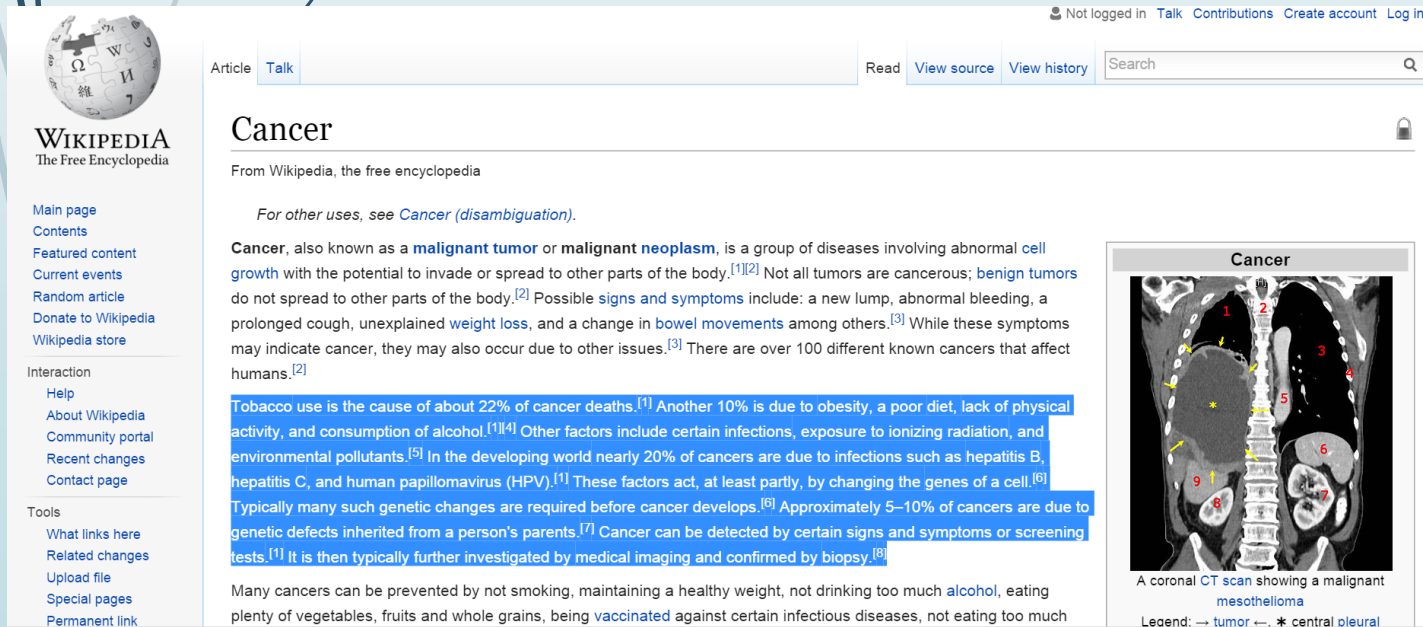
(it is viewed as academic fraud and academic theft– like stealing)

When we copy other peoples work we cheat ourselves. We limit our own learning.

Copy and pasted from Wikipedia

► Causes of cancer:

Tobacco use is the cause of about 22% of cancer deaths. Another 10% is due to obesity, a poor diet, lack of physical activity, and consumption of alcohol. Other factors include certain infections, exposure to ionizing radiation, and environmental pollutants. In the developing world nearly 20% of cancers are due to infections such as hepatitis B, hepatitis C, and human papillomavirus (HPV). These factors act, at least partly, by changing the genes of a cell. Typically many such genetic changes are required before cancer develops. Approximately 5–10% of cancers are due to genetic defects inherited from a person's parents. Cancer can be detected by certain signs and symptoms or screening tests. It is then typically further investigated by medical imaging and confirmed by biopsy.

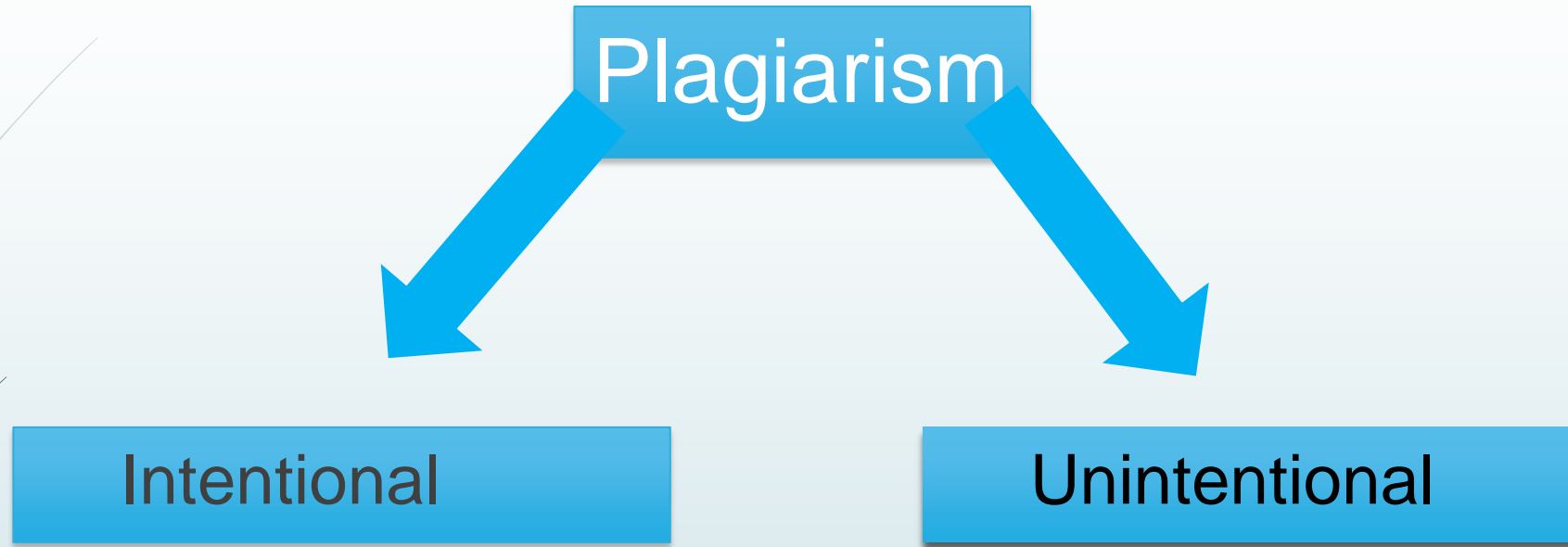


The screenshot shows the Wikipedia article for 'Cancer'. The page includes the Wikipedia logo, navigation links (Main page, Contents, Featured content, Current events, Random article, Donate to Wikipedia, Wikipedia store), and a search bar. The article text is partially highlighted in blue, showing the causes of cancer: 'Tobacco use is the cause of about 22% of cancer deaths. Another 10% is due to obesity, a poor diet, lack of physical activity, and consumption of alcohol. Other factors include certain infections, exposure to ionizing radiation, and environmental pollutants. In the developing world nearly 20% of cancers are due to infections such as hepatitis B, hepatitis C, and human papillomavirus (HPV). These factors act, at least partly, by changing the genes of a cell. Typically many such genetic changes are required before cancer develops. Approximately 5–10% of cancers are due to genetic defects inherited from a person's parents. Cancer can be detected by certain signs and symptoms or screening tests. It is then typically further investigated by medical imaging and confirmed by biopsy.'

- This is not my work
- How will my teacher grade me?
- The grades will not be mine, but some one elses?
- Is this not cheating?
- What will I learn from this?

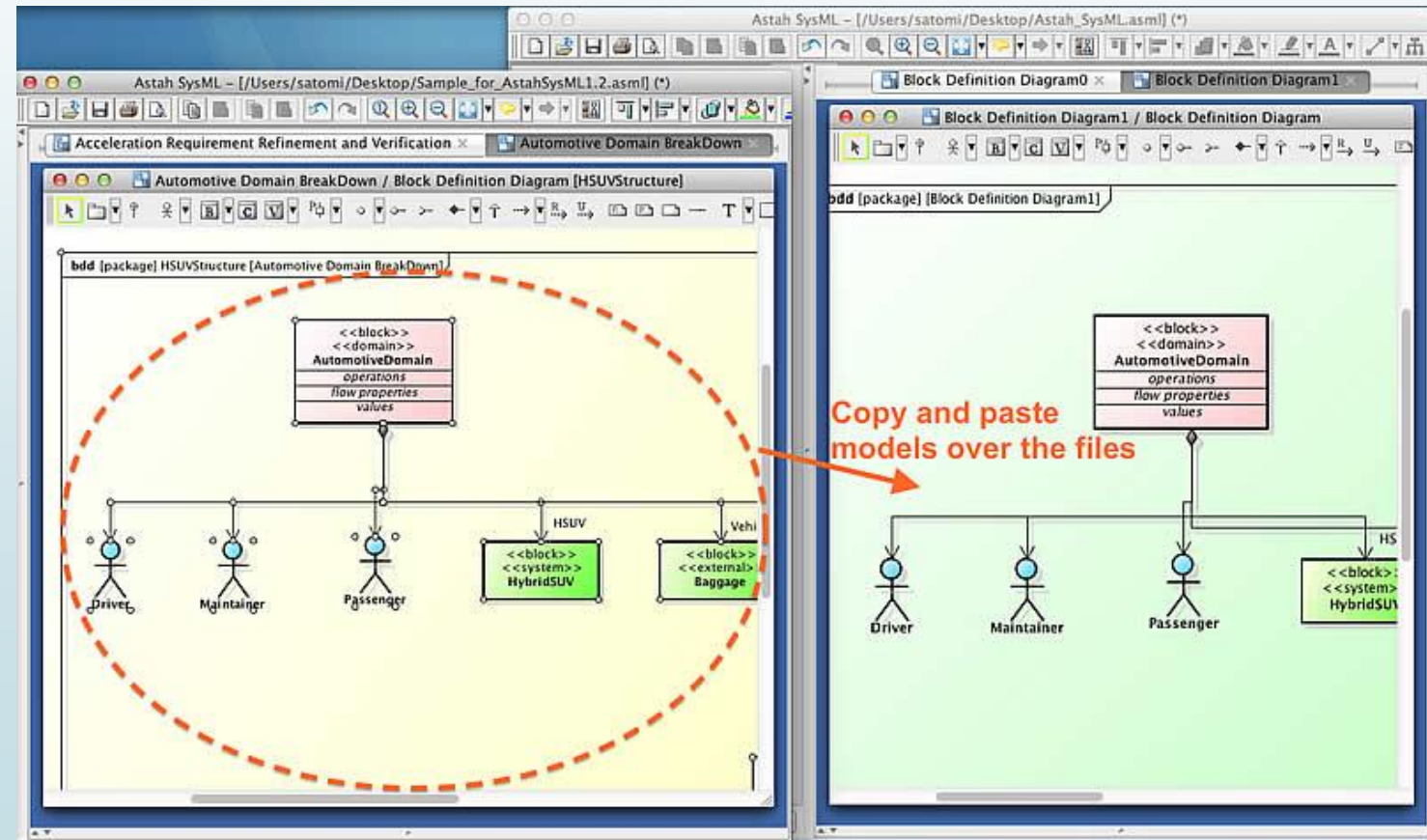


The Types of plagiarism

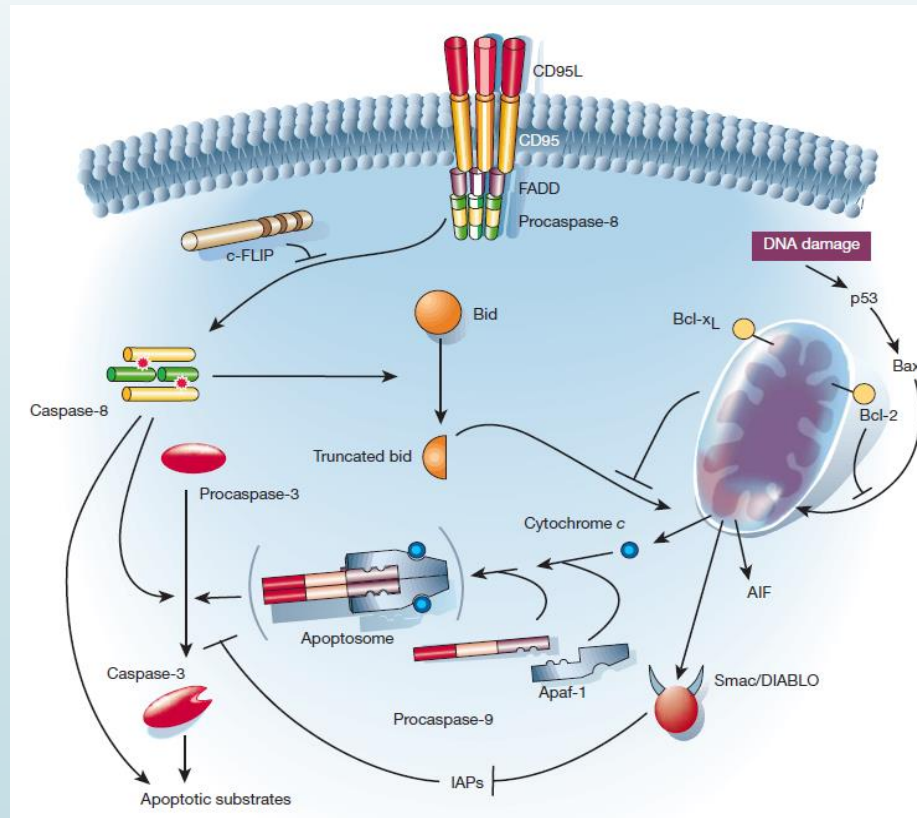


Intentional Plagiarism

- ➔ 1- Copy Paste from the net, from a book, from an article, without proper reference



Using Figures, or paintings, charts and putting your name on it, without any change nor reference nor permission from the publisher if there is a copyright.



2-Copying an essay or article from the Internet, book, electronic sources without quoting or giving reference.



www.facingourrisk.org/understanding-brca-and-hboc/information/hereditary-cancer/hereditary-genetics/basics/overview.php

Family

- BRCA Mutations and Cancer
- Genes Associated with Known Hereditary Cancer Syndromes
- Other Genes Associated with Increased Breast and/or Ovarian Cancer Risk
- Who Should Consider Testing?
- Genetic Mutation Database

Overview

- What is cancer?
- What is hereditary cancer?
- Hereditary vs. sporadic cancer
- Signs of hereditary breast and ovarian cancer (HBOC)
- Other hereditary cancers

Overview

All cancers are caused by changes to materials in our bodies called "genes." These are units of information in every cell of our bodies. Genes tell our bodies which proteins to make based on the type of cell and its needs. Some genes tell our bodies how to fix damage accumulated over time from normal aging, environmental toxins, sun exposure, dietary factors, hormones, and other influences. These damage-controlling genes can repair cells or tell cells when to stop growing and die if there is too much damage to repair.

When genes themselves are damaged, they can develop changes called "mutations." When mutations occur in the damage-controlling genes, cells can grow out of control and cause cancer.

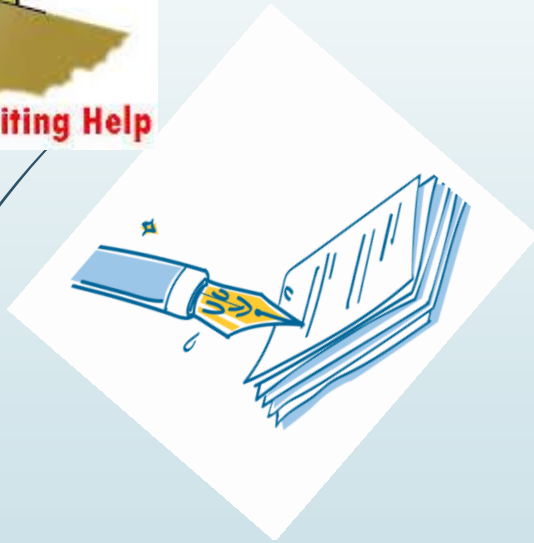
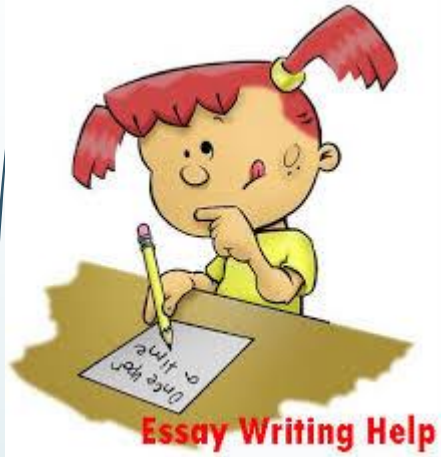
For most people who develop cancer, the cancer-causing gene mutations happen over the course of a lifetime, leading to cancer later in life. Some people are born with a gene mutation that they inherited from their mother or father. This damaged gene puts them at higher risk for cancer than most people. When cancer occurs because of an inherited gene mutation, it is referred to as "hereditary cancer."

Genetics of Cancer

All cancers are caused by changes to materials in our bodies called "genes." These are units of information in every cell of our bodies. Genes tell our bodies which proteins to make based on the type of cell and its needs. Some genes tell our bodies how to fix damage accumulated over time from normal aging, environmental toxins, sun exposure, dietary factors, hormones, and other influences. These damage-controlling genes can repair cells or tell cells when to stop growing and die if there is too much damage to repair.

No quote, no reference

3- Asking someone else to write for you (with or without paying them)



Genetics of Cancer

By Arjumand Warsy

Genes tell our bodies which proteins to make based on the type of cell and its needs. Some genes tell our bodies how to fix damage accumulated over time from normal aging, environmental toxins, sun exposure, dietary factors, hormones, and other influences. These damage-controlling genes can repair cells or tell cells when to stop growing and die if there is too much damage to repair-----

4- Using one's own pre-written published paper/s

Is consanguinity prevalence decreasing in Saudis?: a study in two generations

Arjumand Sultan Warsy¹, May Hamad Al-Jaser², Abeer Albdass¹, Sooad Al-Daihan¹, Mohammad Alanazi¹

1. Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia.

2. Department of Zoology, College of Science, King Saud University, Riyadh, Saudi Arabia.

Abstract

Background: Saudi population is unique in that there is a strong preference for cousin marriages in the general population. We studied the prevalence of consanguinity in educated Saudi females and compared the results with the results obtained in their parents, to access if a generation difference in which extensive educational activities have prevailed to inform the people of the influence of cousin marriages on health, has made any difference in prevalence of consanguineous marriages.

Consanguinity in Saudi Arabia

Arjumand Warsy

Consanguinity (Kon'san'-guin'it E), is a word derived from two Latin words: con meaning 'shared' and sanguis meaning 'blood', and is used to describes relationship between two people who are related as they share common ancestors (a shared blood relationship) [cognatio naturalis]. Consanguineous marriages refer to marriages between two people, genetically related, by descent, from a common ancestor ($F \geq 0.0156$)mahmaha maha nnnnMy

Without Quoting

5- Using part of or complete reports of senior students and using them as your own.

Protease inhibitor activity in Aloe Vera compared to the Black seed

Abir shaheen , Safyah al-Hathi, Noura al-Shammari, Noura al-Shammari

Prof. Arjumand Warsy

Biochemistry Department, Science College, King Saud University, Riyadh, Saudi Arabia| 1437, 2016 (first semester)

Introduction

Protease inhibitors (like trypsin inhibitor) are involved in the regulation of proteases. Protease inhibitors (PIs) are natural, defense-related proteins often present in seeds and other parts of many plants. These inhibitors cause a reduction in the availability of amino acids necessary for the growth and development of the insect, thus protecting the plant from damage (1). We initiated this study on Aloe vera, as it is an important medicinal plant. A few studies have been conducted on thrombin inhibitors in Aloe vera and anti-thrombin activity has been reported. However, there are no reports on other anti-protease activity, particularly, anti-trypsin activity in this plant(2).

Objective

This study was designed to fulfill the following objectives:

1. To investigate the presence of trypsin inhibitors in Aloe vera.
2. To compare the amount and specific activity of trypsin inhibitor in Aloe vera with trypsin inhibitor in black seeds.
3. To study the anti-bacterial effect of trypsin inhibitor in Aloe vera and black seed.
4. To examine the thermal stability of trypsin inhibitor in Aloe vera and black seeds.

Method

1-Extraction: preparation and extraction of Trypsin inhibitor from Aloe Vera and Black seeds using 2.5% TCA

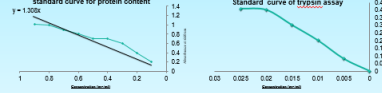
2-Lowry's method: in order to estimate Protein content using serum bovine albumin (BSA) as the standard of different concentrations

4- Effect of Trypsin inhibitor in bacterial growth using three types of bacteria (Escherichia coli, Bacilli, and Staphylococcus)

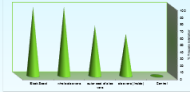
3- Assay of Trypsin and Trypsin inhibitor activity: using casein (1%) as substrate and TCA (5%) to stop reaction, measure absorbance against the blank at 280nm

5- Effect of temperature on the Stability of Trypsin inhibitor: Effect of temperature was studied at 40°C, 60°C, 80°C and 100°C. Measure Absorbance against the blank at 280nm

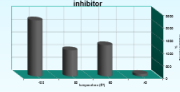
Result



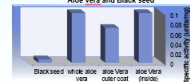
Trypsin inhibitor activity in Aloe vera and black seeds



Effect of different temperatures on %Trypsin inhibitor



Specific activity (units/mg) of inhibitor from Aloe vera and Black seed



Anti-bacterial effect of trypsin inhibitor

Bacteria	Aloe vera (Hatch)	Aloe vera (Outer coat)	Black seed
Staphylococcus	+++	++	++
Bacilli	+++	+	+++
E-coli	++	+	++

Anti-bacterial effect of trypsin inhibitor in Aloe vera and Black seed on the different types of bacteria



Discussion

Extracts from Aloe vera are widely used in the cosmetics and alternative medicine industries, being marketed as having rejuvenating, healing, or soothing properties. In this study our result show that trypsin inhibitor is present in the outer coat and inside of Aloe vera. There was more trypsin inhibitor in the inner part with a higher specific activity compared to black seed. The specific activity of the inhibitor was more in Aloe vera and was highly stable at high temperature and it has antibacterial activity. Aloe vera is used in herbal medicine since the beginning of the first century AD. It is possible that some of these properties are due to the presence of protease inhibitors in this plant. More studies are needed to characterize the inhibitor in Aloe vera.

Conclusion

In conclusion Aloe vera is a good source of inhibitor and can be easily used in different preparations for skin treatment. The inhibitor has high specific activity, and acts as a bactericidal agent.

References

- 1-Fan Sh., and Jiang G., 2002. Plant proteinase inhibitors against phytophagous insects. Bot. Bull. Acad. Sin. 273-292.
- 2-Langel O., Cravatt B., Graslund A., Heine N., Zorko M., Land T., Nielsen S., 2009. Introduction to Peptides and Proteins. 63(P14): 318-319

Introduction

Protease inhibitors (like trypsin inhibitor) are involved in the regulation of proteases. Protease inhibitors (PIs) are natural, defense-related proteins often present in seeds and other parts of many plants. These inhibitors cause a reduction in the availability of amino acids necessary for the growth and development of the insect, thus protecting the plant from damage (1). We initiated this study on Aloe vera, as it is an important medicinal plant. A few studies have been conducted on thrombin inhibitors in Aloe vera and anti-thrombin activity has been reported. However, there are no reports on other anti-protease activity, particularly, anti-trypsin activity in this plant(2).

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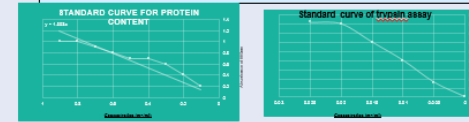
Protease inhibitor activity in beans compared to the Black seed

Arjumand Warsy

Prof. Arjumand Warsy

Biochemistry Department, Science College, King Saud University, Riyadh, Saudi Arabia| 1437, 2016 (first semester)

Result



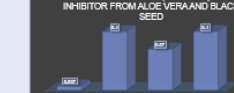
Trypsin inhibitor activity in Aloe vera and black seeds



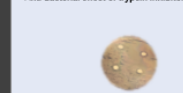
Effect of different temperatures on %Trypsin inhibitor



Specific activity (units/mg) of inhibitor from Aloe vera and Black seed



Anti-bacterial effect of trypsin inhibitor



Anti-bacterial effect of trypsin inhibitor in Aloe vera and Black seed on the different types of bacteria

Discussion

Extracts from Aloe vera are widely used in the cosmetics and alternative medicine industries, being marketed as having rejuvenating, healing, or soothing properties. In this study our result show that trypsin inhibitor is present in the outer coat and inside of Aloe vera. There was more trypsin inhibitor in the inside with a higher specific activity compared to black seed. The specific activity of the inhibitor was more in Aloe vera and was highly stable at high temperature and it has antibacterial activity. Aloe vera is used in herbal medicine since the beginning of the first century AD. It is possible that some of these properties are due to the presence of protease inhibitors in this plant. More studies are needed to characterize the inhibitor in Aloe vera.

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Bacteria	Aloe vera (Hatch)	Aloe vera (Outer coat)	Black seed
Staphylococcus	+++	++	++
Bacilli	+++	+	+++
E-coli	++	+	++

My friends poster
2nd Semester 1435-36

My poster
2nd Semester 1436-37

6- Taking **words** or **ideas** from other students or sources without giving credit.



- Words ... copying more than 4-6 consecutive words, rearranging phrases, or paraphrasing extensively
- Ideas ... using original information learned from conference presentations, confidential reviews, etc.





Plagiarism of Words- The use of another's exact words without citing the author

► Incorrect

- Being born prematurely is the biggest global killer of children, where over a million children die each year, as a result of the associated complications, mostly in the developing world

► Correct

- It is stated by WHO, that being born prematurely is the biggest global killer of children, where over a million children die each year, as a result of the associated complications, mostly in the developing world [WHO 2000].



Paraphrasing

- “Para” meaning “with” and “phrase” meaning (well) “phrase”
- A paraphrase is rewriting of the entire text or most of the text in ones own words


Paraphrasing

- Tobacco use is the cause of about 22% of cancer deaths. Another 10% is due to obesity, a poor diet, lack of physical activity, and consumption of alcohol. Other factors include certain infections, exposure to ionizing radiation, and environmental pollutants.

➤ Almost 22% of cancer deaths are caused by using tobacco. Where almost 10% of the cancer results from obesity, a poor diet, sedentary life, and drinking alcohol. Certain infections, exposure to ionizing radiation, and environmental pollutants are some other factors causing cancer.



Plagiarism of Authorship

- Submitting someone else's article or work in a book or article on the net, in your name
- 

6- Cutting and pasting from more than one source to create a paper without quoting or giving credit.

ONCOLOGY LETTERS 11: 1181-1188, 2016

Polymorphic variants in the vitamin D pathway genes and the risk of ovarian cancer among non-carriers of *BRCA1/BRCA2* mutations

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MARGARITA LIANERI¹ and PAWEŁ P. JAGODZINSKI¹

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Received November 16, 2014; Accepted October 26, 2015

DOI: 10.3892/ol.2015.4033

Abstract. Previous studies have produced inconsistent results regarding the contribution of single nucleotide polymorphisms (SNPs) in the vitamin D pathway genes to the risk of ovarian cancer (OC) in various ethnic groups. We investigated the association between polymorphisms in the vitamin D pathway genes and the risk of OC in Polish women with regard to the presence of *BRCA1/BRCA2* mutations.

and *VDR FokI* rs2228570 (OR for interaction, 1.687; $\chi^2=8.278$; $P=0.004$; $P=0.032$). In conclusion, this

Int. J. Biol. Sci. 2016, Vol. 12



International Journal of Biological Sciences
2016; 12(2): 133-143. doi:10.1016/j.ijbs.2016.01.001

Research Paper

“DNA Binding Region” of *BRCA1* Affects Gene Stability through modulating the Intra-S-Phase Checkpoint

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1. Genetics of Development and Disease Branch, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, USA.
2. Faculty of Health Sciences, University of Macau, Macau SAR, China.
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Received: 2015.10.27; Accepted: 2015.12.09; Published: 2016.01.01

BRCA1 mutations and breast cancer in Saudis Arjumand Warsy

Breast cancer is the most common cancer and the second-leading cause of cancer mortality in women [1, 2]. *BRCA1* was isolated as the gene responsible for increased susceptibility to familial breast and ovarian cancer [3]. Germline mutations of *BRCA1* have been detected in the majority of familial breast and ovarian cancers and approximately one third of the cases of familial breast cancer [2, 4, 5]. Moreover, nearly 30-40% of sporadic malignancies are associated with impaired expression of *BRCA1* [6]. *BRCA1* is a large multifunctional protein implicated in DNA double-strand break repair, centrosome duplication, transcription regulation, DNA damage response, and cell cycle control, all of which are important for maintaining genomic stability [7-9].

Cao et al. BMC Cancer (2016) 16:64
DOI 10.1186/s12958-016-2107-6

BMC Cancer

RESEARCH ARTICLE

Open Access

Novel germline mutations and unclassified variants of *BRCA1* and *BRCA2* genes in Chinese women with familial breast/ovarian cancer

Wen-Ming Cao¹, Yun Gao², Hong-Jian Yang³, Shang-Nao Xie³, Xiao-Wen Ding³, Zhi-Wen Pan⁴, Wei-Wu Ye¹ and Xiao-Jia Wang^{1*}

Abstract

Background: Germline mutations in the *BRCA1* and *BRCA2* genes greatly increase a woman's risk of developing breast and/or ovarian cancer. The prevalence and distribution of such mutations differ across races/ethnicities. Several studies have investigated Chinese women with high-risk breast cancer, but the full spectrum of the mutations in these two genes remains unclear.

Unintentional Plagiarism

- When the intention was not to plagiarise, but it happened due to lack of knowledge



- ➡ **Paraphrasing poorly:** changing a few words without changing the sentence structure of the original, or changing the sentence structure but not the words.

Anemia is a condition in which the hemoglobin (Hb) concentration level is reduced. Sickle cell anemia is a disease of the blood, which is caused by an inherited Hb S gene. Normal Hb consists of: Hb A, Hb A2 and Hb F, while a person with SCH has different Hb pattern. In SCA the red blood cells are sickle or boat-shape. Sickle Hb S is produced as a result of replacement of glutamic acid instead of valine in position number six of the β chain.

Anemia is a **disease** in which the hemoglobin (Hb) concentration level is **low**. **If we inherited Hb S gene**, we develop Sickle cell anemia is a disease of the blood,. Normal Hb consists of: Hb A, Hb A2 and Hb F, while a person with SCH has different Hb pattern. In SCA the red blood cells are sickle or boat-shape. Sickle Hb S is produced as a result of replacement of glutamic acid instead of valine in position number six of the β chain.

Hemoglobin (Hb) concentration level is reduced in anemia. When Hb S gene is inherited from both patents it causes Sickle cell anemia, a disease of the blood, Normal Hb consists of: Hb A, Hb A2 and Hb F, while a person with SCH has different Hb pattern. the red blood cells are sickle or boat-shape **in SCA** . **At position 6 of the β chain glutamic acid is replaced by valine and this produces sickle Hb S.**


Paraphrasing, without quotation

Original text: (Warsy et al 2016)

Recurrent spontaneous abortion (RSA) and preterm delivery (PTD) occur at a high prevalence among the Saudi women, though the exact prevalence rates have not been reported. Spontaneous abortion is defined as a pregnancy loss before the 20th week of gestation, and recurrent RSA refers to three or more consecutive pregnancy losses (before 20th week of gestation).

► Paraphrased text:

The prevalence of recurrent spontaneous abortion (RSA) and preterm delivery (PTD) **is high** among the Saudi women, **and there are no reports of the** exact prevalence rates. **The definition of** spontaneous abortion is pregnancy loss before the 20th week of gestation, and recurrent RSA **is defined as three or more** abortions prior to 20th week of gestation.



Incorrect Quoting: quotation marks are around part of a quotation but not around all of it, or quotation marks is around a passage that is partly paraphrased and partly quoted.

Citing poorly: omitting an occasional citation or citing inaccurately.

“Recurrent spontaneous abortion (RSA) and preterm delivery (PTD) occur at a high prevalence among the Saudi women”, **though the exact prevalence rates have not been reported.** Spontaneous abortion is defined as a “pregnancy loss before the 20th week” of gestation, and recurrent RSA refers to three or more consecutive pregnancy losses (before 20th week of gestation).

(No reference) or (Hassan et al 2016—wrong reference

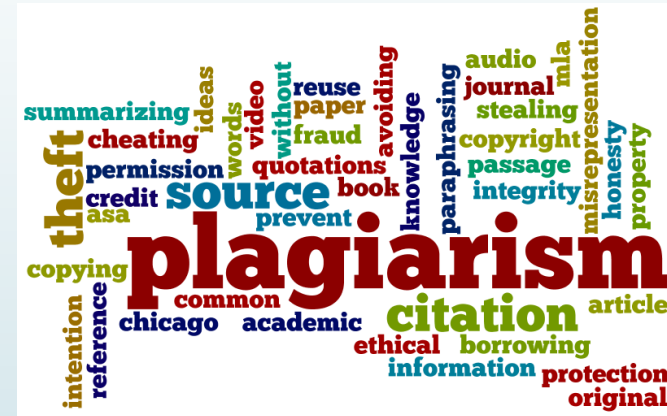
What information can be used without reference or citation?

- ❖ Our own ideas
- ❖ Our own analysis/evaluation of other people's ideas
- ❖ The information that is a Common knowledge – knowledge that is found in several sources that are not themselves depending on a single earlier source.
 - ❖ e.g anaemia is a blood disorder
 - ❖ If you eat lots of carbohydrates you become fat
 - ❖ In summer Saudi Arabia is hot
 - ❖ Cancer is multifactorial
 - ❖ Breast cancer is common in females more than males.

Do you now understand Understand Plagiarism????



DON'T Cheat



➡ **Answer the Questions in the next few slides**

Q- Is This Plagiarism?



- You are attending a conference where research results are being presented.
- To design your next project you use ideas described by one of the speakers.
- ?????

Q- Is This Plagiarism?



- You are writing your literature review; you read many articles from journals, chapter in books, or book.
- You paraphrase passages of text from the material you have been reading in the literature
- You include these paraphrases in your introduction, without quotes, or references.
- ??????

Q- Is this Plagiarism?



- You have been reading and an idea develops in your mind
- You use this idea to design a research proposal or to write a book or an article.
- ???

Q- Is this Plagiarism?



- You are the head of a section, and you make sure your colleagues put your name in the paper they are writing, when you did not do any thing in the research or the paper.
- Or to keep you head of section happy, you put her name on the paper, when she has no contribution.
- ??????
- **This is Unethical and not allowed in Science**

Q- Is this Plagiarism?



- Our student did her research for her Master's degree and passed and got the degree.
- I used part of her data to write a paper, but did not put her name on the paper.
- ???
- Unethical

Q- Is This Plagiarism?



- A journal sent you an article to review.
- It describes a novel methodology for the research which you are conducting.
- You decide to use this method described in that manuscript, to enhance your own research.
- ??????

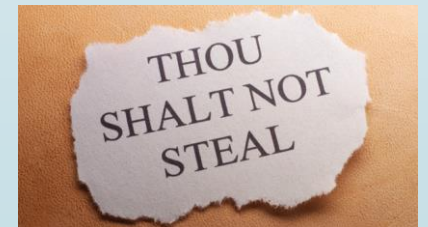
Q- Is This Plagiarism?



- You are using the internet to do some search .
- You use ideas from a web site in the design of your next research project,
- and you use some quotes from the web site in your literature review.
- In both cases you do not refer to the website.
- ??????

Q- Is This Plagiarism?

- You are writing a paper in English, and your native language is Arabic.
- When writing a review of literature, you use another author's exact words because you are not confident about paraphrasing or synthesizing the ideas into your own words in English.
- ????



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was BORING!

No time to write myself

I don't understand

I was too busy to
write the paper myself
(parties, weddings, too much homework!)

I've got to get good
grades to
enter
University

No problem if
I don't get caught!

My teachers
expect
too much!

My family and parents
expect me to get "A"s!



Symptoms of Plagiarism



If symptoms persist see your teacher librarian....

Dianne McKenzie Library Grids
School Librarian Connection



The punishments of Plagiarism

- Whether plagiarism is intentional or unintentional, there are serious consequences for both.
 - You may lose your job and position
 - Your published papers may be **discarded**
 - **Insults and loss of reputation**
- You may fail the course
 - You may be given a zero on the assignment
 - Students may be suspended from a class
 - Students may be expelled
 - You don't learn much

How to Avoid Plagiarism?

- Understand what is plagiarism.
- Identify the reasons for plagiarism???
- Understand the types of plagiarism
- Be conscious not to plagiarize
 - Quoting
 - Paraphrasing
 - Summarizing

Plagiarism Prevention

- Write something new and original (unique)
- Read the literature, understand it and write in your own words
- Refer to and quote the contribution of each researcher, while making your own contribution
- Never copy without reference
- Always **paraphrase**
- Never take the work of others and put it in your own name
- Never ask others to write for you
- Never pay money for someone to write for you.

Examples of Programs for checking Plagiarism

➤ Free online

➤ Free


- May be slow, put the assignment in a cue
- Some are useful for students and teachers
- May not give an accurate account of the extent of plagiarism

➤ Paid

- May be expensive to use; some require one time payment, others require monthly payment.
- Generally fast in providing results
- Detect high percentage of plagiarism



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- Free program
 - Easy to use
 - Good reviews
 - Misses some plagiarism
- 

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Status:

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than are infants of white mothers:4.

According to the 2014 report of WHO, 15 million babies are born preterm each year globally and this number is on the rise. This gives an overall prevalence of more than 10% (approx. 1 in 10 births) [WHO 2014]. It is stated that the rate of preterm delivery has increased over the last 20 years and this is believed to be due to increased maternal age, problems with maternal health (.e. diabetes and high blood pressure) and increasing number of pregnancy-related complications (gestational diabetes, multiple pregnancies) [WHO 2014].

It is stated by WHO, that being born prematurely is the biggest global killer of children, where over a million children die each year, as a result of the associated complications, mostly in the developing world [1]. Hence, preterm birth is regarded as the major contributor to infant death, long-term morbidity, neurological disabilities and cognitive outcomes in children.

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According to the 2014 report of WHO, 15 million babies are born preterm each year globally and this number is on the rise. This gives an overall prevalence of more than 10% (approx. 1 in 10 births) [WHO 2014]. It is stated that the rate of preterm delivery has increased over the last 20 years and this is believed to be due to increased maternal age, problems with maternal health (.e. diabetes and high blood pressure) and increasing number of pregnancy-related complications (gestational diabetes, multiple pregnancies) [WHO 2014].

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English

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marriages are illegal under statutes passed in the 19th and 20th centuries [9].
In Saudi Arabia, El-Hazmi and co-workers [14] investigated consanguinity in a household survey conducted throughout the country and reported 60.8%, 52.1%, 67.7%, 54.2% and 59.1% consanguinity in the central, northern, north-western, south-western and eastern provinces of Saudi Arabia, respectively. They also showed that first-cousin marriages were the most frequent, followed by the second cousin marriages [14]. Other more recent investigations also highlighted the differences in rates of consanguineous mating in different regions of Saudi Arabia [15] and in a community-based cross-sectional study, El-Mouzan et al [16] showed a close link between consanguinity and major genetic disorders in Saudi children. A recent investigation showed that the frequency of consanguinity is not showing much change over the last two generations, despite an increase in the education level and awareness ().

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Several factors seem to play a role in increasing the prevalence of RSA and PTD including environmental and genetic factors, hence pointing to a multifactorial etiology for both (Christiansen et al 2008; Ole et al 2006). For RSA, numerous risk factors have been implicated and the best documented are maternal smoking, advanced maternal age, previous spontaneous abortion, and chromosomal abnormalities in the fetus. Among the factors implicated in causation of PTD are smoking, hypertension, stress, preeclampsia, premature rupture of membrane, urinary tract infection, oligohydramnios, bleeding or spotting and previous history of PTD (3,5). One of the factors which has been implicated in a few studies conducted in some populations is consanguinity (). Data on the effect of consanguinity is limited. This is due to the low frequency of consanguinity in the Western society, including the Europeans and the USA, where consanguinity is generally regarded with suspicion and distaste, reflecting historical and religious prejudice. However, populations in Asia and the Arab World, show a strong preference for consanguineous unions, most frequently contracted between first cousins, and marriage outside the family is perceived as a risky and disruptive option [1].

The word "consanguinity", is derived from the Latin words: con meaning 'shared' and sanguis meaning 'blood', and is used to express the relationship between two people who are related as they share blood relationship [cognatio naturalis]. Consanguineous mating refers to marriages between individuals genetically related by descent i.e. descending from a common ancestor ($F \geq 0.0156$). The degrees of shared genes decreases as the relations are removed further. In clinical genetics, a consanguineous marriage refers to union between individuals who are related as second cousins or closer [1]. In global terms, consanguineous marriages are permitted within Judaism, Islam, Buddhism, Hindus and the Zorasterian/Parsi religion [1]. Consanguineous mating and inbreeding have been a subject of human biological inquiry since George Darwin, himself the son of a marriage between Charles Darwin and his cousin Emma Wedgwood [2], who investigated the relative academic and athletic performance of

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According to the 2014 report of WHO, 15 million babies are born preterm each year globally and this number is on the rise. This gives an overall prevalence of more than 10% (approx. 1 in 10 births) [WHO 2014]. It is stated that the rate of preterm delivery has increased over the last 20 years and this is believed to be due

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of PTD (3,5). One of the factors which has been implicated	- Unique
(). Data on the effect of consanguinity is limited. This	- Unique
society, including the Europeans and the USA, where consanguinity	- Unique
historical and religious prejudice. However, populations	- Unique
consanguineous unions, most frequently contracted between	- Plagiarized
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sanguis meaning 'blood', and is used to express the relationship	- Unique
[cognatio naturalis]. Consanguineous mating refers to marriages	- Unique
descending from a common ancestor ($F \geq 0.0156$). The degrees	- Unique
In clinical genetics, a consanguineous marriage refers to	- Plagiarized
or closer [1]. In global terms, consanguineous marriages	- Unique
the Zorasterian/Parsi religion [1]. Consanguineous mating	- Plagiarized
since George Darwin, himself the son of a marriage between	- Plagiarized
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MA: personal observation), though the exact prevalence rates	- Unique
as a pregnancy loss before the 20th week of gestation [1,2],	- Unique
losses (before 20th week of gestation) [Baek et al 2007].	- Unique
prior to the 37th weeks of pregnancy. Almost 10% of babies	- Unique
varies in different populations. Preterm labor and birth	- Unique
where infants of African American mothers are 50% more likely	- Unique
According to the 2014 report of WHO, 15 million babies are	- Unique
rise. This gives an overall prevalence of more than 10%	- Unique
rate of preterm delivery has increased over the last 20	- Unique

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82% Unique

Recurrent spontaneous abortion (RSA) and preterm delivery	- Unique
MA: personal observation), though the exact prevalence rates	- Unique
as a pregnancy loss before the 20th week of gestation [1,2],	- Unique
losses (before 20th week of gestation) [Baek et al 2007].	- Unique
prior to the 37th weeks of pregnancy. Almost 10% of babies	- Unique
varies in different populations. Preterm labor and birth	- Unique
where infants of African American mothers are 50% more likely	- Unique
According to the 2014 report of WHO, 15 million babies are	- Unique
rise. This gives an overall prevalence of more than 10%	- Unique
rate of preterm delivery has increased over the last 20	- Unique
age, problems with maternal health (.e. diabetes and high	- Unique
complications (gestational diabetes, multiple pregnancies)	- Unique




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"MRO" is the designation of an individual who has a vital role in the overall drug-testing process. "Medical Review Officer" who is a medical doctor. The MRO is responsible for reviewing the employee being tested and the employer requiring the

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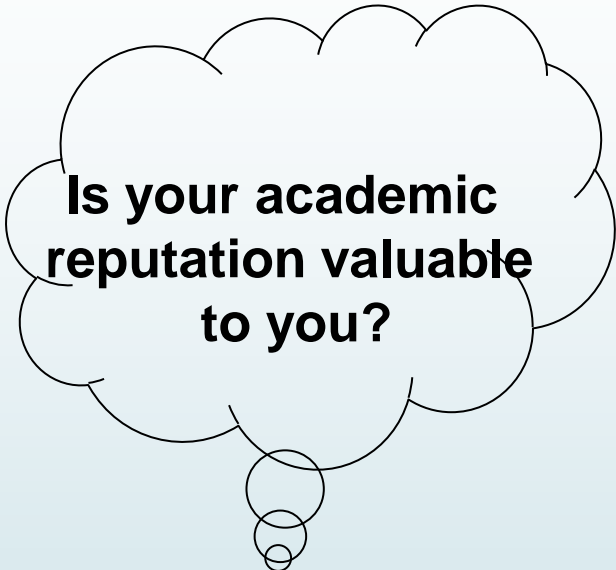


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