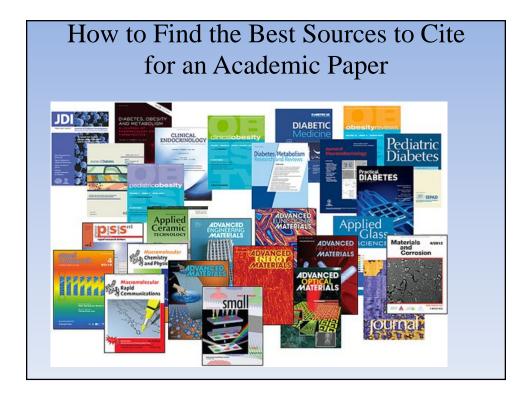




Reading scientific literature

- A necessary component of research.
- The mean by which scientists communicate.
- Good examples of the scientific writing style.
- Enable you to find scientific literature on subjects of your interest.

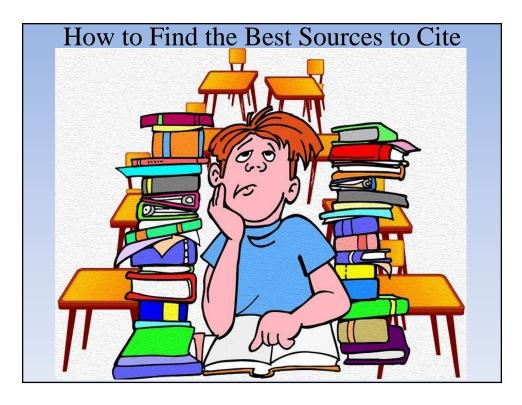


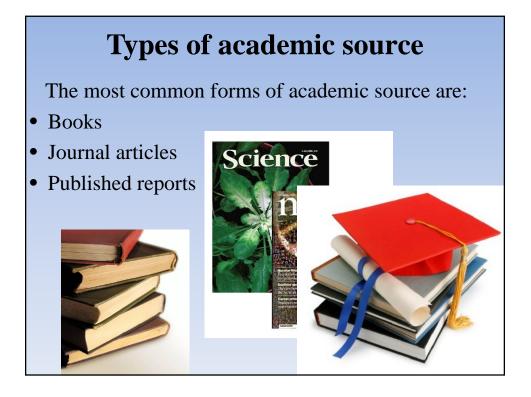
How to Find the Best Sources to Cite for an Academic Paper

Countless sources of information are available on any topic.

Which of these sources one should cite?







What is an academic/scholarly article?

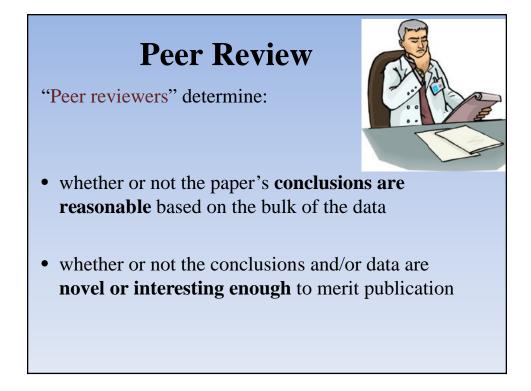
It has to pass an **academic quality assessment**

This control process is called **peer-reviewing.**

What Peer Review Is?

• Submitted article to a scientific journal, is generally reviewed by **people who are experts** in the relevant subject in order to determine whether or not the article is worthy of publication.

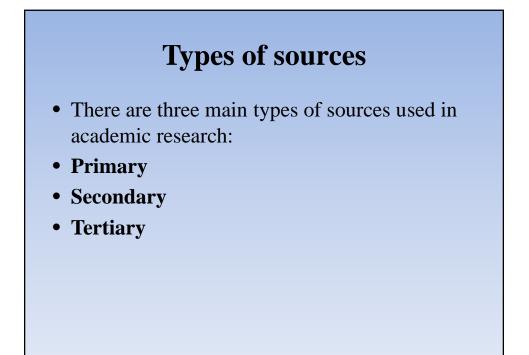


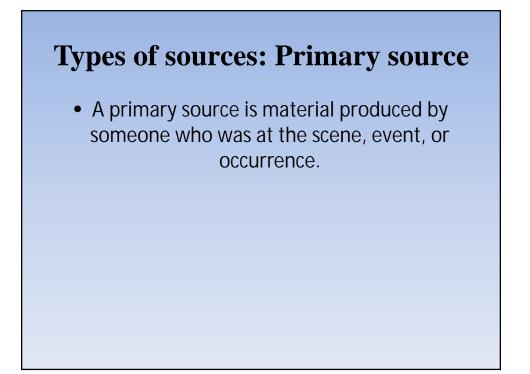




There are different types of academic/scholarly articles

- Research Article
- Case Report
- Review Article
- Meta-Analysis Article
- Letters or Communications
- Theoretical Article





Types of sources: Secondary source

• Secondary sources are based on primary sources and are usually studies which analyze, evaluate, interpret or criticize primary sources.

Types of sources: Tertiary source

• Tertiary sources compile and condense information from other sources. They are meant to provide a broad introductory overview of a topic.

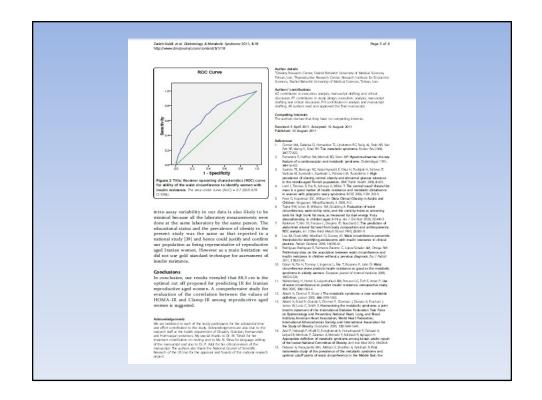
Characteristics of Articles						
Туре	Description					
Research/Empirical	Article reporting on the results of one or more studies or experiments, written by the person(s) who conducted the research. This is considered one type of primary source.					
Case Study	Detailed account of clinically important cases of common and rare conditions.					
Review	Summarizes the findings of others studies or experiments; attempts to identify trends or draw broader conclusions. Scholarly in nature but not a primary source or research article, however its references to other articles will include primary sources or research articles.					
Letters or Communications	Short descriptions of important latest study or research findings which are usually considered urgent for immediate publication. Examples: breakthroughs regarding cures or treatments for previously incurable conditions, or cure for a particular outbreak of disease, like for example swine flu.					

	Description
Meta-Analysis	A meta-analysis is a mathematical synthesis of the results of two or more primary studies that addressed the same hypothesis in the same way.
Theoretical	Containing or referring to a set of abstract principles related to a specific field of knowledge; characteristically it does not contain original empirical research or present experimental data, although it is scholarly.

Zelabileli et al. Dalenders & Medice: Serieron 2011, 318	
sace-read in a ladercary a readout spectra a 11, 20 in http://www.dmi(camal.com/content/3/1/18	DIABETOLOGY & METABOLIC SYNDROME
RESEARCH	Open Access
Waist circumference and in	sulin resistance:
a community based cross s	ectional study on
reproductive aged Iranian	
Axta Zadeh-Vakil ¹ , Fahimeh B Tehasi ² and Farhad Hospeins	
Auta zagen-vasir, Fahrmen K Tensari, and Fahad Hosteinga	arrarn
Abstract	
Badgewald Afracych fre prother stationing berwein insid mei direk sitesianing berwein insid invatienterina auf 8 ar mei direk sitesiani auf ander statistica auf statistica auf mei direk sitesiani auf statistica auf statistica consentence of wormen. Methoda Usag her statistica, matistage pobalitig utera sa steetad form annge inproductiva augi wormen of different of in existion retries, complete data for 900 worme invaniend formension invatiga samareme (SUAM) auf al statistica auf calculare based based on the network operating characteristica (RCC are under carve QUC).	Not cike yet and there is no conversion regarding for creating observing the present study was almost to O for prefetting ill in reproductive agent largen mplling method 1088 women were andonity observations and the study of the study of the study observation of the study of the study of the study was defined as the 1016 proceeds of HOMA 49 was a control as the form of the study of the study of the O conve analysis using the Youdein index and the
Results: The mean age of the trait is mpile of 907 subjects we adjustment from gap the odds matrix (10) of efficient efficien	were progressively higher with increasing levels of h WC > 95 cm in comparison to shore subjects with le for WC predicting IR was 885 cm, with a resistance and the optimal cut-off value for wast
Keywords: Insulin resistance, Watt dircumference, HOWAIR, O	
Insulin resistance (IR) is the main pathophysiological [4] fracture of the metabolic syndromic (M455), which is the trans loads to increased risk of antibo social design (M45), is conducted to pathogeneous the resistance [3-5]. Waist discussive for the best methyseneous cluster (M15), the best methyseneous	I mon-invasion way of identifying the presence of IR 11.] The International Diabetes Federation (IDF) has fained that wais in a gender and effective group specific denses on information electricity (12,23). The cut of into for Enripides are 94 cm in non an 48 cm in in- ma, while flows for following and 12,33. The formation, hand the form $d = 0.5$ cm in second 12. For Farsian, band in most and $d = cm$ in second 12. For Farsian, band the form $d = 0.5$ cm in the second 12. For formation, band the flow in the formation of $d = 0.5$ m for $d = 0.5$ m for d = 0.5 m for $d = 0.5$ m for $d = 0.5$ m for $d = 0.5$ m for d = 0.5 m for $d = 0.5$ m for $d = 0.5$ m for $d = 0.5$ m for d = 0.5 m for $d = 0.5$ m for
* Conveptiondence: Bimedenligendocitineacit Planning undence: Beseinth Center Deservit Institute for Indocrine Sciences, Mile	nue, the tat-out point of 95 tim for we, so magnose (S was identical in men and women [14,15]. However, se studies were primarily based on the relationship

2.6deh Vakili et al Diobentology & Metabolic Syndrame 2011, 3:1 http://www.dmajournal.com/content3/1/18	8 Page 2 of 6
between waist circumference and risk factors for c	rdio- enzymatic colorimetric method (Pars Azmon Inc., Tehran,
vascular disease or multiple components of the met	bolic Iran) by a Selectra 2 auto-analyzer (Vital Scientific,
syndrome other than insulin resistance [15-17] and	
are a limited population-based studies for definin	
off values of WC for diagnosis of IR [18-20]. Consi	
the lack of population based and sex specific data re	
ing optimal WC cut-off point for predicting	
Iranians, we aimed to clarify the optimal cut-off po diagnosis of insulin resistance, determined by hom	
sis model assessment of insulin resistance (HOM.	
in a community based sample of healthy reprod	
aged Imnian women.	respectively. The ethical review board of the Research
-8	Institute for Endocrine Sciences approved the study pro-
Methods	posal and informed consent was obtained from all
Subjects	subjects.
This cross sectional study was conducted in fou	
domly selected provinces of different geographic re	
of Iran, i.e. Ghazvin (Central), Kermanshah (East),	
stan (North) and Hormozgan (South). A total of	
women, aged 18-45 years were selected using a stra multistage probability cluster sampling method	
frame for the selection of the sampling units was	
on the Iranian household lists available in the F	
Department. Menopausal women, those who had u	
gone hysterectomy or bilateral oophorectomy and	
nant women were excluded. A checklist question	
was completed at subjects' homes and eligible w	
were invited to a referral clinic in each province	
comprehensive interview and physical exam. Ultin	
data for 907 subjects remained in the final analysi	
had completed questionnaire, physical and cl	
exams.	and interquartile ranges, as appropriate. The categorical variables are expressed as percentages. To assess the abil-
Weight (kg) was measured while the patient was d in light clothing and without shoes, using digital	
and was recorded to the nearest 0.5 kg. Height was	
sured in a standing position, without shoes, using a	
suring tape, while the shoulders were in a normal po	
and was recorded to the nearest 0.5 cm. Blood pro	
was measured by a standard mercury sphygmoman	
with an appropriate sized cuff for arm diameter	after calculated. We identified the optimal values for sensitivity
5 minutes rest and checked twice at an interval of a	
5 min. The mean value of these two measurement	
used for the analyses. Waist was measured m	
between the lower rib margin and the iliac-crest end of a gentle extiration. Body mass index was calc	

Zadeh-Vakill et al. Diabetalogy & Metabolic Syndrome 2011, 3:18 http://www.dmojournal.com/content/3/1/18				Page 3 of 6
				Figure 2 presents the ROC curves for the ability of the
Variable		/alue		waist circumference to identify women with insulin resis-
		means ± SD)	E.	tance. Using the ROC curve analysis the optimal value
Age (Year)		14.4 ± 7.6		for sensitivity and specificity that keep (1 - sensitivity) 2 +
Systolic blood pressure (mmHg		109 ± 14		(1 - specificity) ² at minimum was 88.5 cm. Sensitivity
Diatolic blood pressure (mmH		19.2 ± 11		and specificity were 71% and 64%, respectively.
Total cholesterol (mg/dl)		85 ± 42		Discussion
LDL cholesterol (mg/dl)		11±35		
HDL cholesterol (mg/dl)		15 ± 13		In this population based cross sectional study we found that 88.5 cm is the optimal cut-off for predicting
Triglycerides (mg/dl)		42 ± 98		IR for reproductive aged Iranian women, our results
Weight (kg)		7.5 ± 128		indicating a significant, linear relationship between
Height (m)		59±6		waist circumference and insulin resistance, measured
BMI (kg/m²)		16.9 ± 5.1		by HOMA-IR. The odds ratio for the risk of insulin
Waist (cm)		15.0 ± 12.2 05 ± 11		resistance using a cut-off < 80 cm for WC as a refer-
Hip (cm) Fasting plasma glucose (mg/d)		105 ± 11 18.9 ± 26.1		ence, increased progressively in proportion to the size
Fasting plasma glucole (mg/d) Fasting plasma insulin (Ul/ml)		8.9 ± 20.1		of waist circumference.
Fasting plasma insulin (U/mi) HOMA		10 ± 9.1		Since insulin resistance is considered as an independent
Insulin resistance%)		1 2*		predictor for age related diseases, including cardiovascular
Percent of women with insulin re		11.Z		disease, access to an accurate tool for measurement of the
referenced of women with insulin re	esstance.			IR plays a vital role [22,23]. Although the euglycemic
Acres and frances and				hyperinsulinemic clamp (Clamp-IR) is considered as the
			gold standard technique for estimation of insulin resis-	
tance. The relationship				tance, it is not applicable in epidemiologic studies.
				HOMA-IR, which is calculated from fasting plasma glu-
tive correlation between WC and HOMA-IR index (r =			cose (FPG) and insulin (FIRI), is highly correlated with the	
			Clamp-IR; therefore it is a useful surrogate index of insulin	
The odds ratios (ORs) for having	IR were i	ncreased	resistance in both healthy and diabetic subjects [24-26].
according to WC categ				Despite the wide use of HOMA-IR, no consensus has been reached regarding the HOMA-IR cut-off value for
having IR for women wi				
to those subjects with 1				identifying subjects with IR. Lee et al. [27] and Radikova
5.6-16.1) (Table 3).			(, e.e. e.	et al. [28] selected the 75 th percentile of non-diabetic
				population for cut-off point of IR which corresponded
				with HOMA-IR values of 3.04 and 2.29 respectively. How-
Table 2 Characteristics of the IR status (measured i				ever, Ascaso et al defined insulin resistance as a HOMA
the in status (measureu i	With IR	Without IF		index > 3.8, corresponding to the 90th percentile of the
	(n = 192)	(n = 715)	Prvalue	distribution in a healthy adult Spanish population [29].
Age (Year)	(n = 192) 349 ± 7.4	(n = 715) 342 + 77	0.257	The threshold values of HOMA-IR to determine IR, in an
	349 ± 74 106 ± 39	34.2 ± 1.7 84.2 ± 18.2		Iranian population (aged 20-77 years), using the lower
Glucose (mg/dL) Insulin (UVmL)		63±27	< 0001	limit of the top quintile of HOMA-IR distribution values
HOMA	5.1 ± 5.1	1.29 ± 0.6	< 0001	in normal subjects, was defined as 1.78 (1.69 for men and
Total cholesterol (mg/dL)	200 ± 47	180 ± 39	< 0.001	1.81 for women); additionally, racial and ethnic variability
LDL cholesterol (mg/dL)	120 ± 47	100 ± 39	< 0001	in the HOMA-IR cut points to diagnose IR is probable
HDL cholesterol (mg/dL)		46.5 ± 12.2		[30,31]. Therefore, to implement the HOMA-IR method successfully, it is important to define specific cut-points
Triglycerides (mg/d.)		40.5 ± 12.2 126 ± 70	< 0001	for the race or age of the studied population. In the pre-



Evaluating Your Information

No matter where your information comes from, you should look at it critically and consider the following:

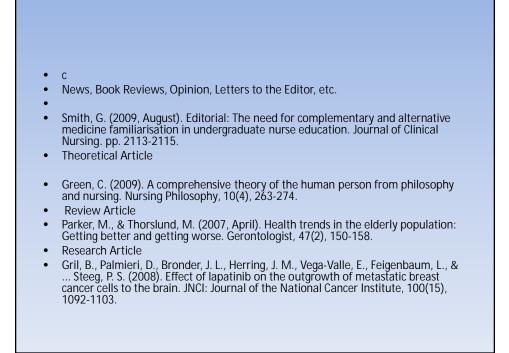
- Is the author qualified to write on the topic?
- Is the information scholarly?
- Is it current?
- Is the information accurate? Has it been edited by other experts? Has the author provided references?
- Is the information objective or is there an obvious bias?
- Is the information relevant to your topic?
- Do you have enough information to cover all aspects of your topic?

USE PRIMARY LITERATURE FOR:
For most science course assignments you are expected to base your work on the primary scientific literature.
Do not refer to a study that you are ready ABOUT in a primary source, but that you have not read yourself. This is NOT an acceptable procedure. You should make all efforts to read the additional study itself.
USE SECONDARY LITERATURE FOR:
Secondary literature is useful for gaining a broad perspective on a topic or a synthesis of ideas about a topic and to find a bibliography of relevant sources
Secondary literture can be used in addition to primary literture, but not in place of it. for instance, if you are reading a review article which refers to information in a primary research article, you should find that primary article and read it yourself

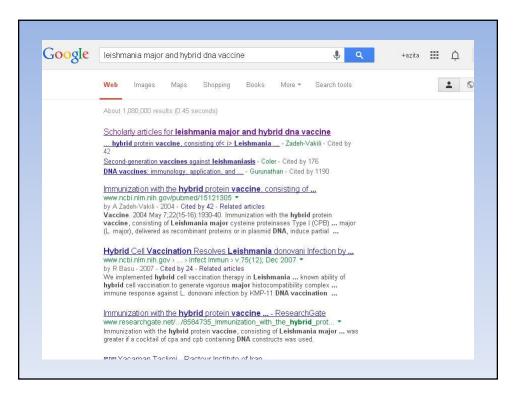
Types of Sources for a Research Paper

 There are two types of research that can be incorporated into a paper: primary and secondary. Most students rely heavily on secondary research, which involves looking at other people's thoughts on a subject, either in books or on the Web. Primary research involves collecting data yourself, through personal interviews, observations or surveys. Knowing about the different types of research you can use helps you determine what type will make your research paper stronger.

• They come in the form of <u>systematic reviews</u> and <u>literature reviews</u> and are a form of <u>secondary</u> <u>literature.^[4]</u> Systematic reviews determine an objective list of criteria, and find all previously published original experimental papers that meet the criteria. They then compare the results presented in these papers. Literature reviews, by contrast, provide a summary of what the authors believe are the best and most relevant prior publications.



There are different types of academic/scholarly articles				
Туре	Definition			
News, Book Reviews, Opinion, Letters to the Editor, etc.	 Scholarly journals will publish some types of articles that are not peer reviewed or based on research. Remember that not every article in peer reviewed journals is a peer-reviewed research article. OK for Class Assignment? NO 			
Theoretical Article	 An article containing or referring to a set of new or established abstract principles related to a specific field of knowledge; normally does not contain original research or present experimental data, although it is scholarly. OK for Class Assignment? NO 			
Review Article	 An article summarizing the results of studies or experiments, often attempting to identify trends or draw broader conclusions. Although scholarly, it is not considered a primary source or research article itself, but it may reference other primary sources or research articles. OK for Class Assignment? NO 			
Research Article	•An article reporting on the results of one or more empirical studies or experiments, written by the person(s) who conducted the research. Look in the title or abstract for words like <i>study</i> , <i>research, measure, subjects, data, effects, survey</i> , or <i>statistical</i> which might indicate empirical research. VES			



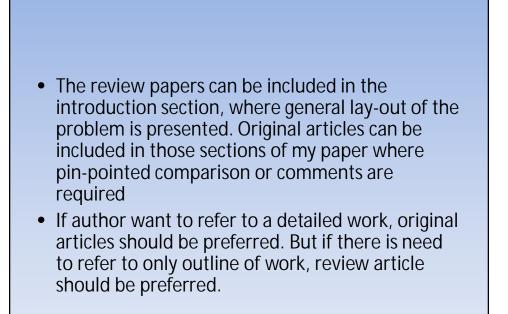
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SI	ort Communication		
G	enetic polymorphism of vitamin D r	eceptor gene affects the phenotype of PCOS	
	tita Zadeh-Vakili ^a , Fahimeh Ramezani Tehrani avid Saadat ^c , Fereidoun Azizi ^d	^{h,*} , Maryam Sadat Daneshpour ^a , Maryam Zarkesh ^a ,	
	rilular and Malecular Research Center, Research Institute for Endocrine Sciences, productive Endocrinology Research Center, Research Institute for Endocrine 150 resention of Metabolic Docarders Research Center, Research Institute for Endocrin Indervine Research Center, Research Institute for Endocrine Sciences, Schuld Beh	num, Shahid Rehmhä University of Medical Sciences, Tehran, Iran ie Sciences, Shahid Rehmhä University of Medical Sciences, Tehran, Iran	
-	RTICLE IN FO ABSTRACT		-
	ck history: Airus: Polycystic ovar	y syndrome (PCOS), a common female endocrine disorder, represents a wide range	ī
Ac As	ilable online 13 December 2012 volved in vitamin D i	s and disease severity. Recent studies suggest an association between gene variants in retabolism and common metabolic disturbances in PCOS. We aimed to examine the a	be a second s
The second se	words: phenotype.	D receptor (VDR) gene variant with PCOS susceptibility and the severity of diseas	
V	R gene Nethods: All participal recruited from a repro	nts, including 260 PCDS women (cases) and 221 normoovulatory women (controls), wer ductive endocrinology clinic. Cases were divided into the severe and mild PCOS phenotyp	8
In	phism of VER gene (i	r clinical and paradinical features. An adenosine to guanine single nucleotide polymo s757343) was genotyped using the PCR-RFLP method.	
	is not associated with	of genotypes and alleles did not differ between cases and controls, indicating that this 5N increased risk for PCOS. However, this SNP was found to be associated with the severity (1
	notype development	n particular, presence of the A allele is associated with a 74% increased risk of severe ph (OR, 1.74; 95% CI, 1.07–2.82).	
	Conclusion: The genet PCOS, but none with		
		© 2012 Elsevier B.V. All rights reserve	1
1.	Introduction	pathogenesis. Over the past decade, a number of candidate gene involved in steroidogenesis (Gaasenbeek et al., 2004; Qin et al., 2006	
	Polycystic ovary syndrome (PCOS), the most common gyr ical endocrinopathy, characterized by chronic anovulation	eco- insulin signaling pathway (Jin et al., 2006; Lee et al., 2008) and gonad	
hy	perandrogenism, is a multigenic disorder. There is a contro	versy ated with increased susceptibility to PCOS, but none is strong enough t	
h	parding its diagnostic criteria resulting in considerable pheno terogeneity in PCOS; it is not clear whether the various pheno	ypes There is an increasing evidence that supports the contribution of	
31	allable behave in a manner suggestive of their being part o	the vitamin D deficiency to metabolic disturbances in women with	h

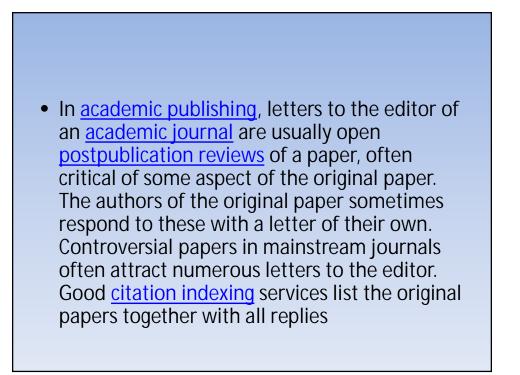




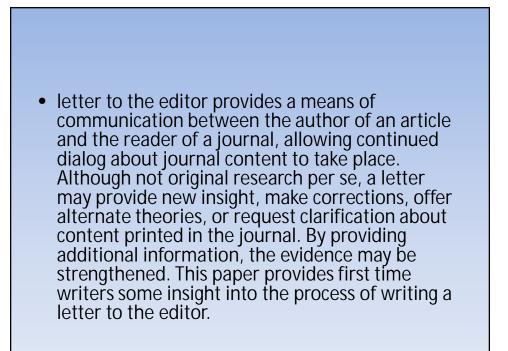








- Why should you write a letter to the editor
- You think that an issue is so important that you have to speak out
- Part of your group's strategy is to persuade others to take a specific action
- Or you want to:
- Suggest an idea to others
- Influence public opinion
- Educate the general public on a specific matter
- Influence policy-makers or elected officials directly or indirectly
- Publicize the work of your group and attract volunteers or program participants



short communication paper

 Some time there is important information that dilute the main information related to the research principal objectives. Therefore we omit it from the published paper. If one think that the omited information is important but cannot serve as the content of a full paper then it is worth to include that information in a short communication

 A Short Communication is suitable for recording the results of complete small investigations or giving details of new models or hypotheses, innovative methods, techniques or apparatus. The style of main sections need not conform to that of fulllength papers. Short communications are 2 to 4 printed pages (about 6 to 12 manuscript pages) in length.

Types of articles

Three types of manuscripts can be submitted:

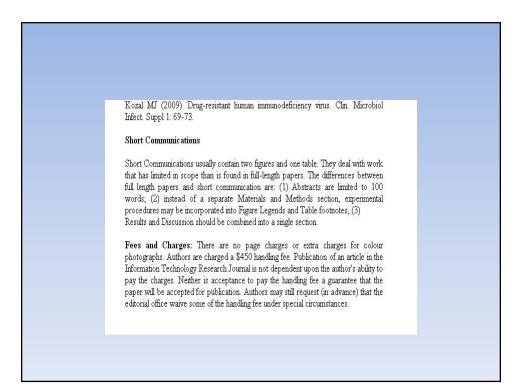
Regular articles: These should include new topics and add new information to recent and previous findings. Experimental procedures should be well detailed and lucid for others to verify the work. The length of a full paper should be the minimum required to describe the work.

Short Communications: these are meant for the results of complete small investigations or giving details of new models or hypotheses, innovative methods, techniques or apparatus. The style of main sections need not conform to that of full-length papers. Short communications are 2 to 4 printed pages (about 6 to 12 manuscript pages) in length.

Review: reviews and perspectives covering various topics are welcomed and encouraged. Reviews should be precise and not more than 4-6 printed pages (about 12 to 18 manuscript pages). Reviews manuscripts are also given to different qualified reviewers.

Review Process

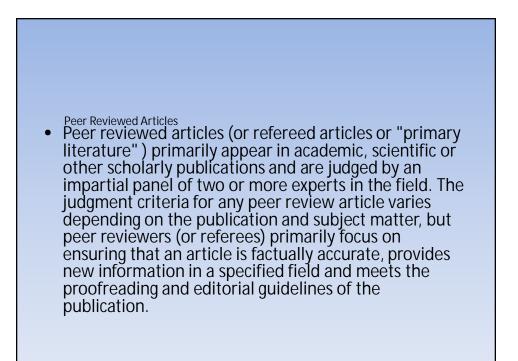
All manuscripts are reviewed by an editor and members of the Editorial Board or qualified outside reviewers. This is done within the shortest given time. The journal, above all, strives to return reviewers' comments to authors within 3 weeks. The editorial board re-review manuscripts that are accepted until they are revised.



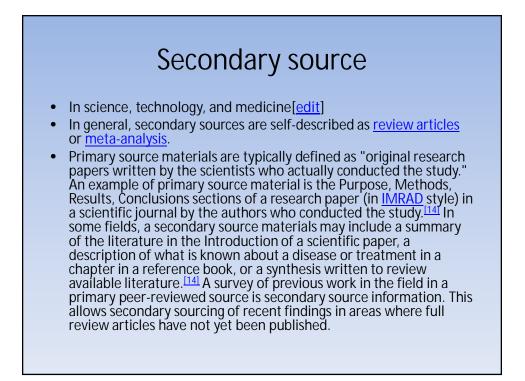
 Regular articles: These should describe new and carefully confirmed findings, and experimental procedures should be given in sufficient detail for others to verify the work. The length of a full paper should be the minimum required to describe and interpret the work clearly.

 Reviews: Submissions of reviews and perspectives covering topics of current interest are welcome and encouraged. Reviews should be concise and no longer than 4-6 printed pages (about 12 to 18 manuscript pages). Reviews are also peerreviewed.









How to Determine the Validity of a Research Article

Open access publishing, article downloads, and citations: randomised controlled trial

 Open access publishing may reach more readers than subscription access publishing. No evidence was found of a citation advantage for open access articles in the first year after publication. The citation advantage from open access reported widely in the literature may be an artefact of other causes.



- Do you need books? Articles? Newspapers? Statistics?
- Have you been asked to use primary sources? Primary sources are documents or other original sources created at the time of an event, and include official records, correspondence, memoirs, diaries, speeches, newspaper articles, photographs and more. Secondary sources synthesize the information provided by primary sources and include interpretations, criticisms, evaluations, and summaries. Textbooks, edited books, biographies and review articles are examples of secondary sources

There are different types of academic/scholarly articles

- Original articles consist of study reports and describe results obtained from research for the first time
- Review articles are critical evaluations of studies that have already been published
- Theoretical articles are reports in which the authors are trying to formulate new theories based on existing research

How to Find the Best Sources to Cite for an Academic Paper

• Use Internet sources carefully and sparingly. Let them guide you towards more traditional sources of information.

Read academic articles on the subject you are writing about. Try to stick to articles from peer-reviewed journals.

- When you find an article you like, look at the bibliography. Repeat this step as often as possible. Look for books and articles mentioned in multiple bibliographies. These are likely some of the most widely regarded articles on the topic.
- Find, read and cite the articles that are mentioned regularly in other articles.
- •