

論文寫作&學術期刊投稿策略

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SCIENTIFIC PAPER?

Sharks
(reviewers)

OCEAN OF
IGNORANCE

Island of
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Knowledge

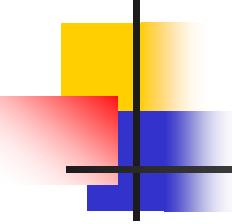
your
paper

- A scientific paper **is not**:
 - a technical report or term paper
- your **role** as guiding the **future efforts**
 - being occasionally **wrong** is forgiven,
 - being **boring** is not

Publication & Progress

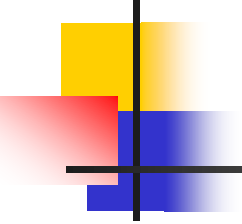
- Academic Pressure?
 - MS, PhD students
 - Faculty for promotion in institution
 - Obligation on research in institution
- Achievement??
- Enjoyment???





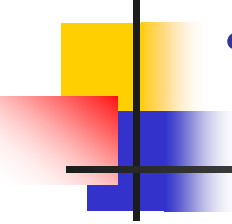
Why am I qualified?

- 136 papers (1989-2010)
- 4 review articles
- 3 book chapters
- 1 patent
- Review 100+/year
Proposals/Reports/Manuscripts
- Technical writing/Experimental design courses



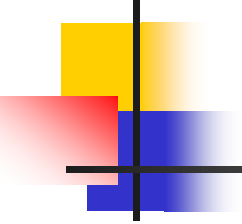
Outlines

- Endnote & Literature Search
- Title
- Introduction
- Methods & Results
- Discussion and Conclusion
- Take home messages



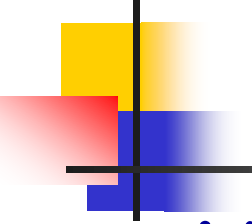
Title: **What's your point?**

- Describe: **Succinct** and **reflect** study contents
- Raise: the **interest** toward the paper
- Think: **many** people read the title, **few** read the abstract, **very few** people read the paper
- Read: some "**titles** of the Journal"



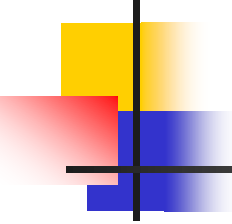
Title ?

- (Problem statement)
- Clear statement of the problem
- Purpose of the study



Scientific American

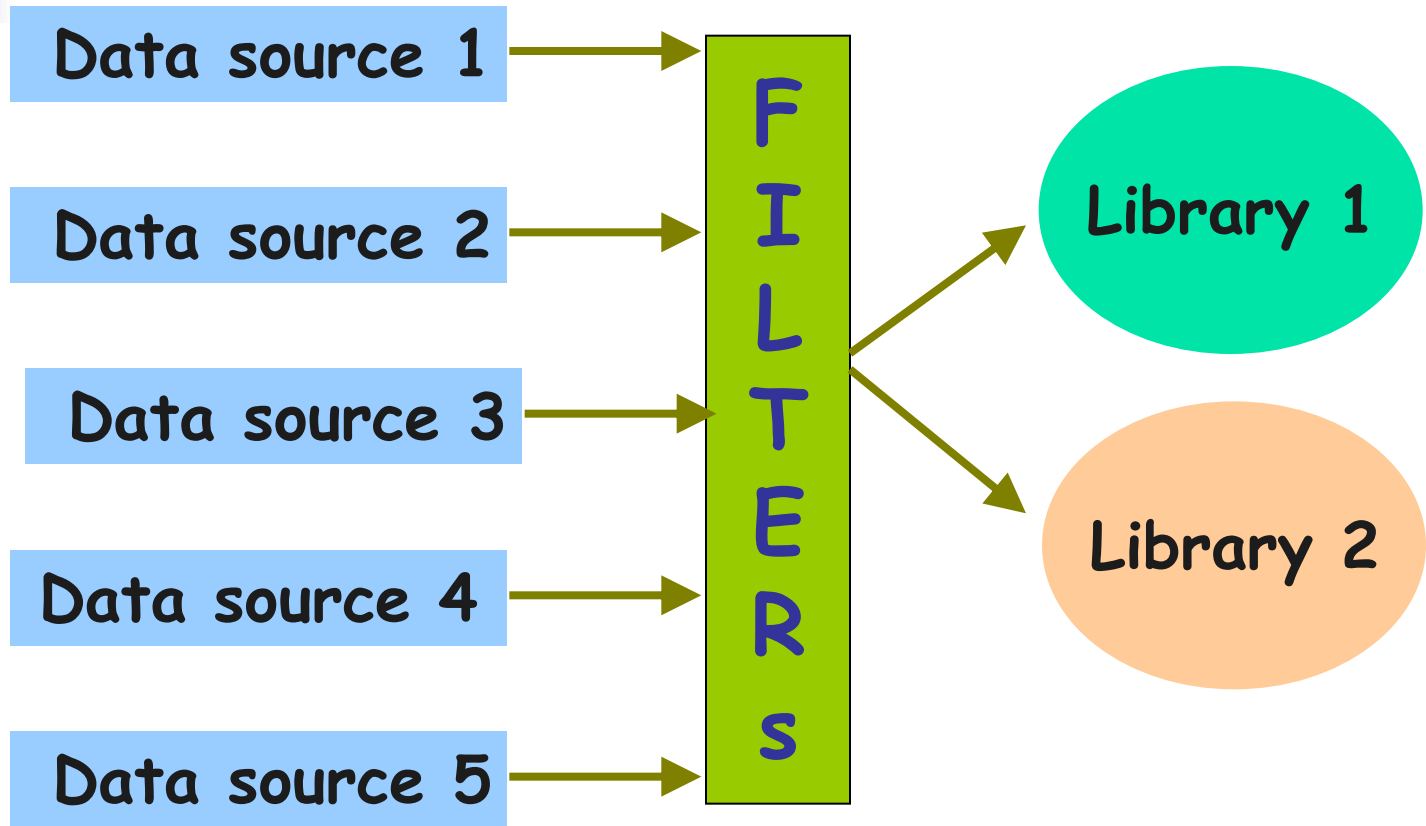
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A1Σ

	Year	Title	Journal	Ref Type	URL
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	1971	Valdez v. Black	F.2d	Case	
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	1990	New Mexico Geological Society publ...		Generic	
	1994	National Environmental Policy Act of ...	U.S.C.	Statute	
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	1991	Stratigraphic excavation techniques f...	Journal of P...	Journal Arti...	
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	2007	Association of p53 and p21(CDKN1...	Anticancer ...	Journal Arti...	http://www.nc

Boltzmann's Constant (k).

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Groups	fig ⁺	0	Author	Year	Title	Journal	Ref Type	URL
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Imported Referen...			Yu	2007	Breast cancer risk associated with m...	Anticancer ...	Journal Arti...	http://www.ncbi
			Wang	2007	Human NAD(P)H:quinone oxidoredu...	J Cancer R...	Journal Arti...	http://www.ncbi
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			Huang	2007	Epidemiology of multiple myeloma in...	Cancer	Journal Arti...	http://www.ncbi
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			Bau	2007	Association of p53 and p21(CDKN1...	Anticancer ...	Journal Arti...	http://www.ncbi
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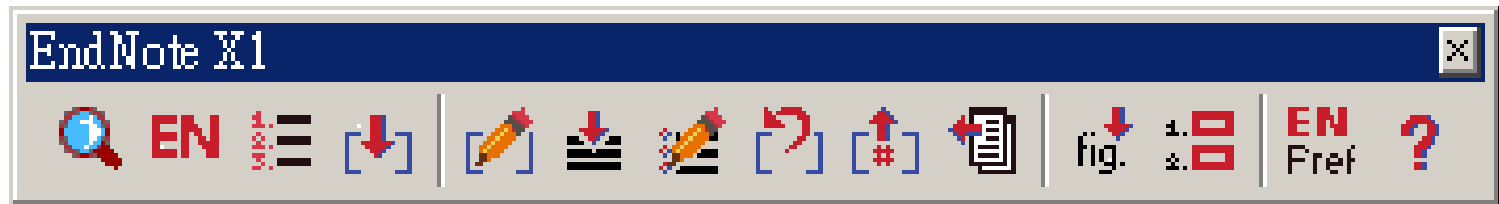
Yu, C. P., Wu, M. H., Chou, Y. C., Yang, T., You, S. L., Chen, C. J., et al. (2007). Breast cancer risk associated with multigenotypic polymorphisms in folate-metabolizing genes: a nested case-control study in Taiwan. *Anticancer Res*, 27(3B), 1727-1732.



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J Appl Physiology

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Author	Year	Title
Lee	2003	Ginkgo biloba extract preserves pyruvate and enhances ascorbate
Chung	2003	Effect of one week treatment with Ginkgo biloba extract (EGb761)
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Lee	2002	Significantly decreased extracellular magnesium in brains of gerbil
Cheng	2002	Hydroxyl radical in living systems and its separation methods
Cheng	2002	Pharmacokinetic study of levofloxacin in rat blood and bile by micro
Yang	2001	Simultaneous monitoring of extracellular glucose, pyruvate, lactate
Wu	2001	Determination of pyruvate and lactate in primary liver cell culture me
Cheng	2000	Monitoring of extracellular pyruvate, lactate, and ascorbic acid durin

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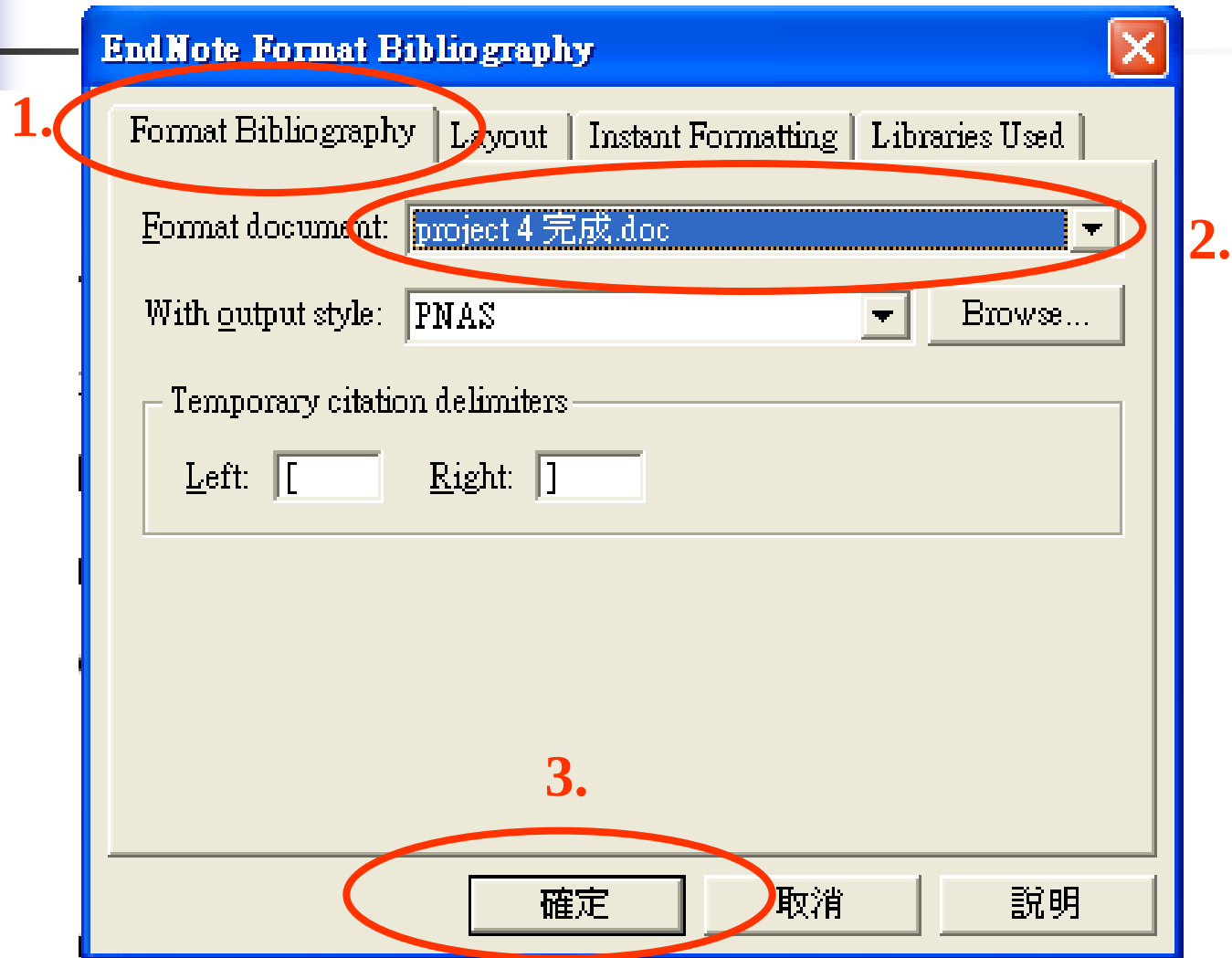
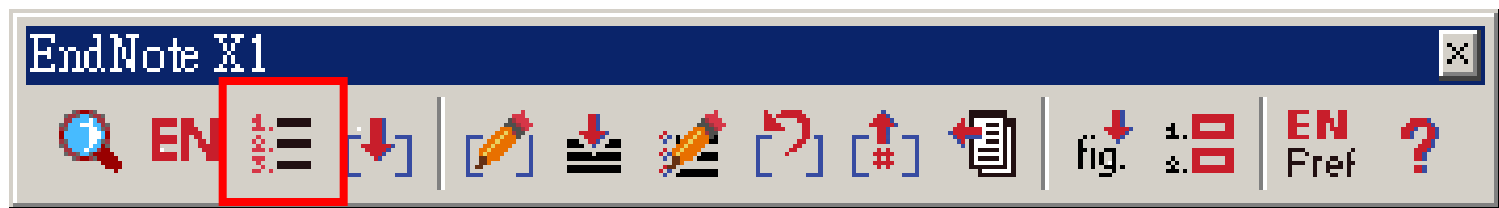


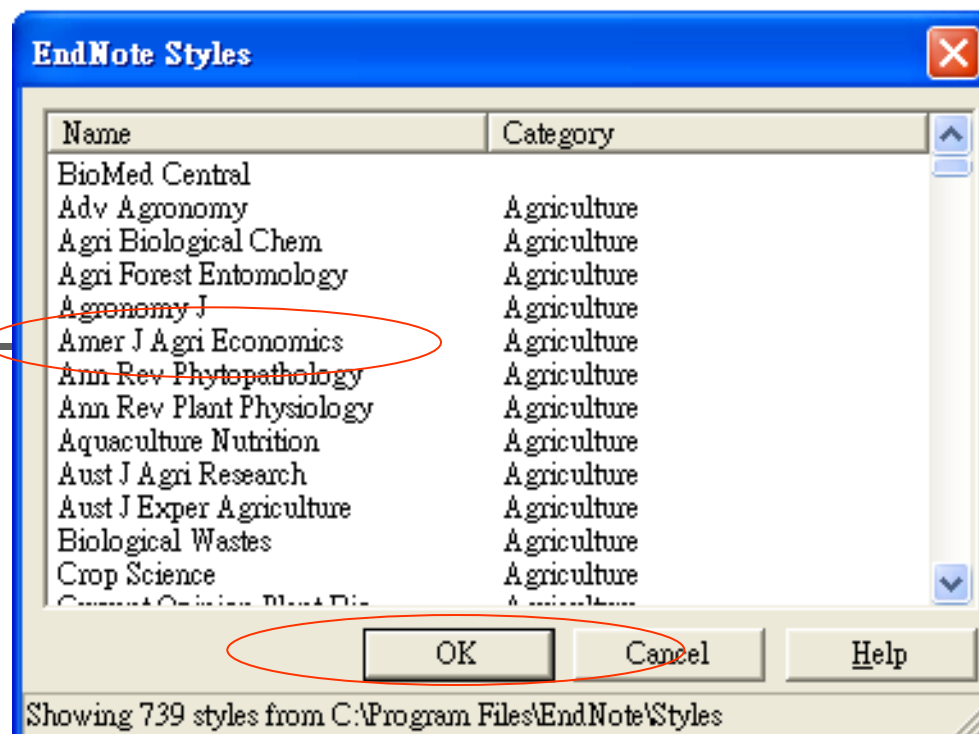
文章內部部份

Brain injuries including stroke and traumatic injuries are the major cause of death and disability to the elderly and young adults, respectively, and often resulting in delayed neurological morbidity or mortality (1).

文章結尾部份

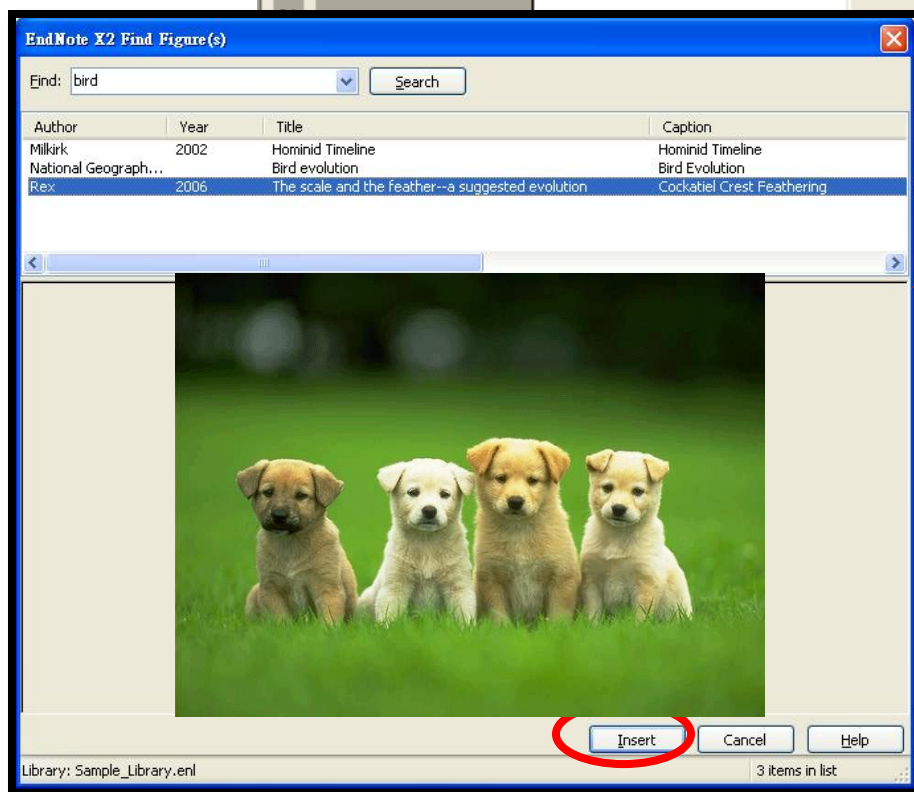
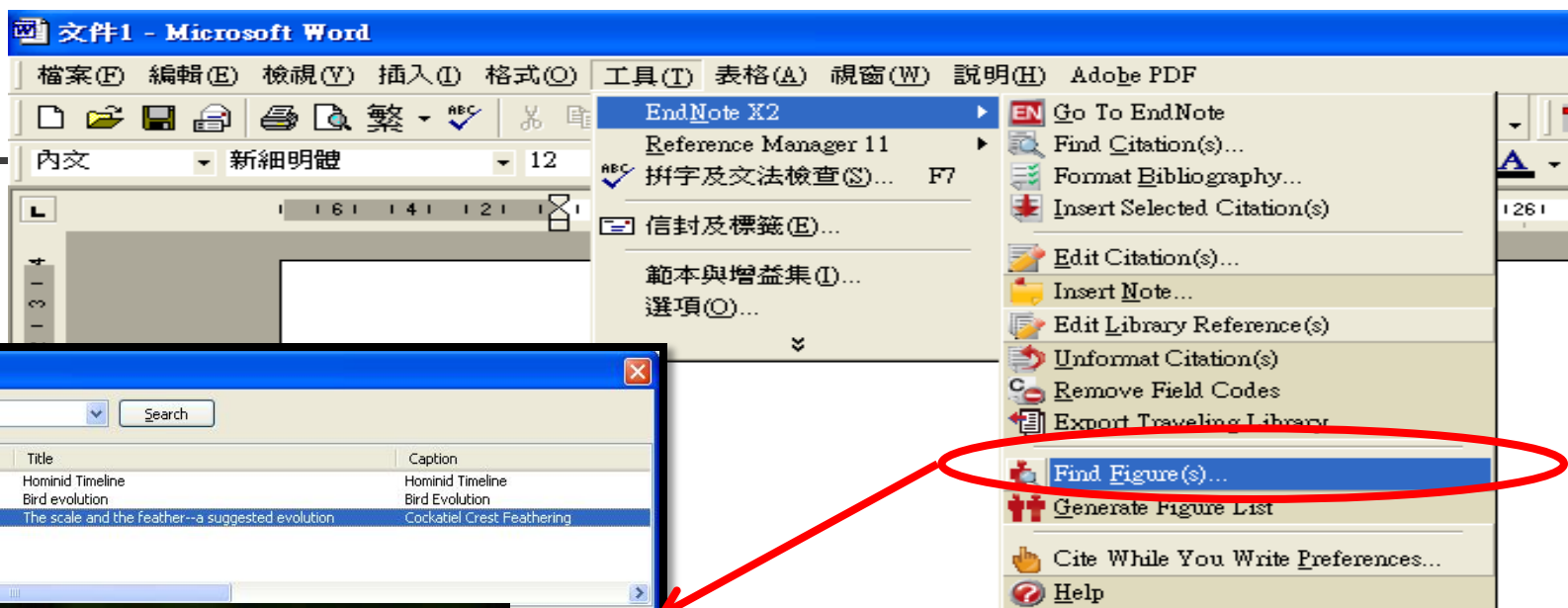
1. Lee MS, Yang DY, Cheng CL, Liang YJ, Yang LL, and Cheng FC. Ginkgo biloba extract preserves pyruvate and enhances ascorbate in the cortex of gerbils during focal cerebral ischemia. A microdialysis-liquid chromatography study. J Chromatogr A 985: 387-394, 2003.✚





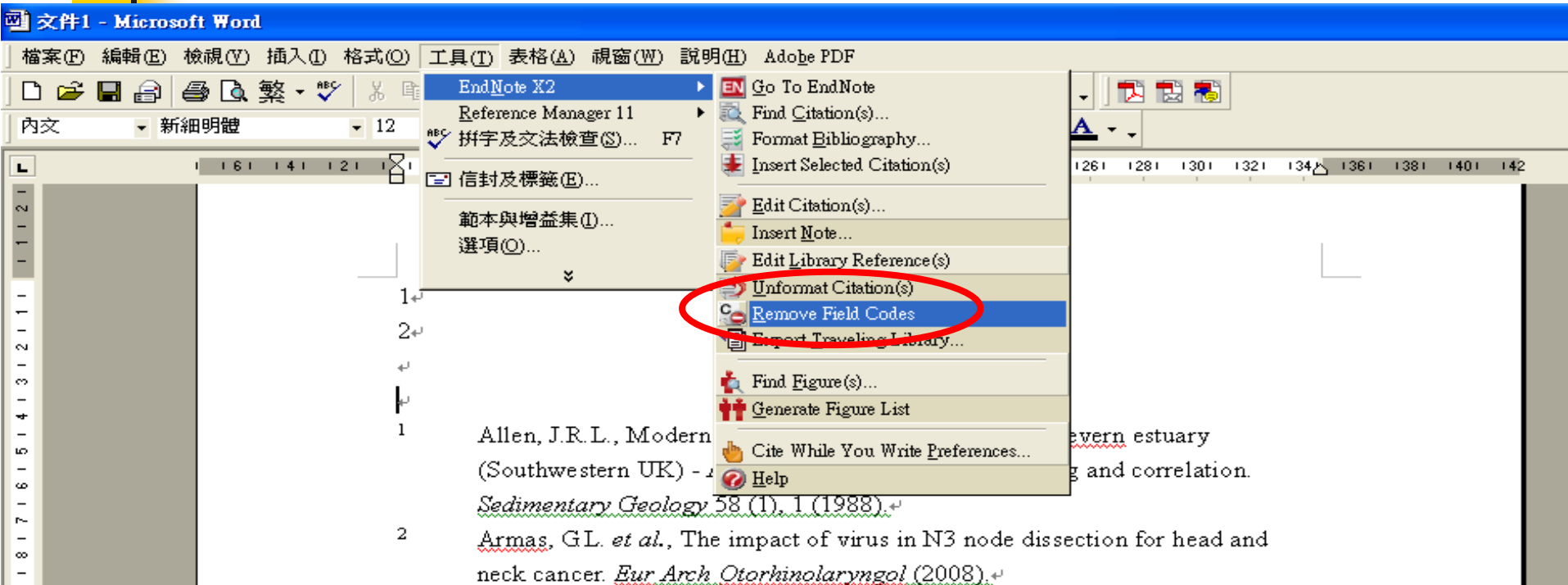
Brain injuries including stroke and traumatic injuries are the major cause of death and disability to the elderly and young adults, respectively, and often resulting in delayed neurological morbidity or mortality (Meena et al., 2002; Walz et al., 2002). Complex mechanisms underlying neuronal damage or death are not clear and the development of preventive and therapeutic medicines is still unsatisfactory (Ray et al., 2002; Stahel et al., 1998). ↵

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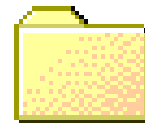
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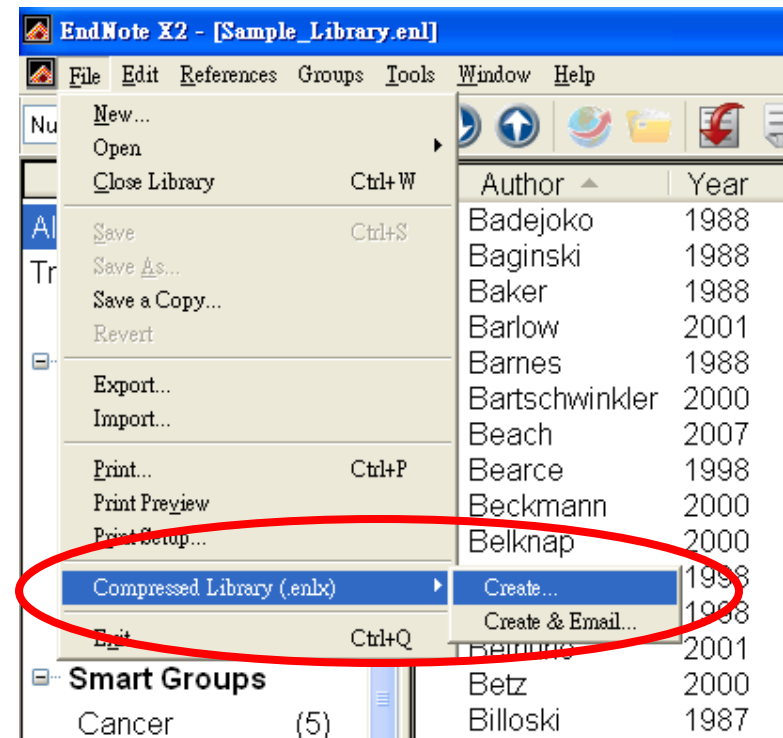
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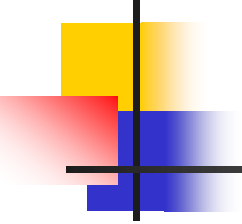


Originality, Novelty, Significance

Writing

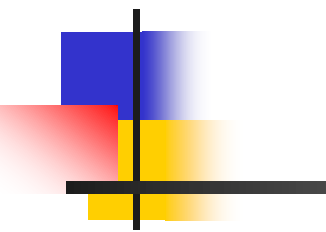
- Clear
- Idea
- Figures
- Tables





The IMRaD Format

- Introduction: What was the **question**?
 - **M**ethods: How did you try to **answer** it?
 - **R**esults: What did you **find**?
 - **D**iscussion: What does it **mean**?
-
- A format used in some journals: **IRDaM**
 - People read **sections** in various orders.



ABSTRACT

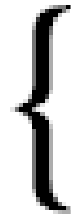
INTRODUCTION

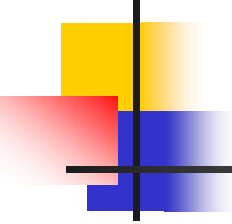
METHODOLOGY
(what you did/used)

RESULTS
(what you
found/saw)

DISCUSSION/
CONCLUSION

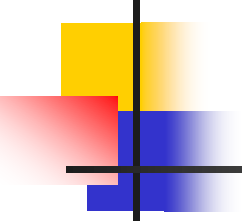
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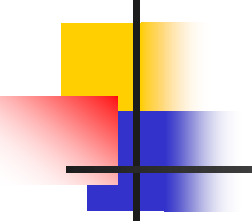
Introduction

- Establish Facts and **Problems**
- Provide Previous and Current **Research**
- Locate a **Gap** to Solve the problems
- Describe the **Present** work



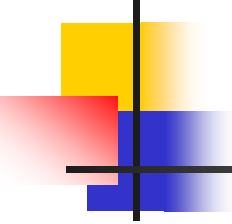
1. Establish Facts & Problems

- ESTABLISH THE IMPORTANCE OF YOUR FIELD
- PROVIDE BACKGROUND FACTS/INFORMATION
- DEFINE THE TERMINOLOGY IN THE TITLE/KEY WORDS
- PRESENT THE PROBLEM AREA/CURRENT RESEARCH FOCUS



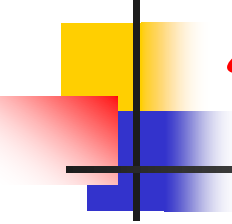
2. Provide Previous and Current studies

- PREVIOUS Research
- CURRENT Research
- Their Contributions



3. Locate a Gap to Solve the problems

- LOCATE A **GAP** IN THE RESEARCH
- DESCRIBE **THE PROBLEM** YOU WILL ADDRESS
- PRESENT A PREDICTION TO BE TESTED

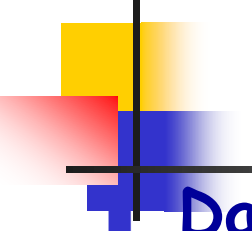


4. Describe the Present work

- Tell the reader why the research was started.
- Make clear what question the research was designed to answer
- State the objective of the study

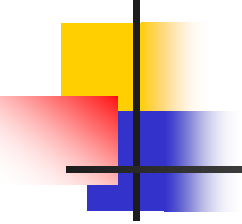
MATERIALS AND METHODS

- Six male gerbils (65-85 g) were allowed to acclimate to their environmentally controlled quarters (25 °C and 12:12 h light-dark cycle) before the experiments. The gerbils were anesthetized with chloral hydrate (400 mg/kg body weight, i.p.) and the body temperature was maintained at 37 °C with a heating pad (CMA/150).
- Following a midline incision, the skull was craniectomized to expose the right middle cerebral artery (MCA). An 8-0 suture was encircled the middle cerebral artery for later ligation.
- Two microdialysis probes (CMA/20-4, and a cut-off at 20 kDa) were stereotaxically implanted into the cortex (AP 0 mm, ML + 5 mm, DV - 5.0 mm from Bregma). A Perkin-Elmer Model Analyst 300 atomic absorption spectrometer (Perkin-Elmer, Uberlingen, Germany) was used for analyzing extracellular Mg concentrations. For atomization of Mg, the temperature was controlled at 1700°C and Mg was detected at a wavelength of 285.2 nm.



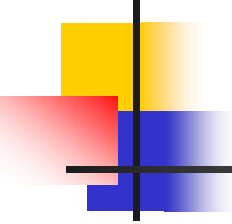
Statistical analysis

- Data are expressed as a ratio between the ipsilateral (right) hind paw and contralateral (left) hind paw where possible. The nature of data on animal weight, SSI data, and also on (the **CatWalk** derived) normal step sequence patterns (NSSP) and couplings did not allow for a ratio-presentation of the data.
- Data are expressed as mean $\pm$ standard-error-of-the-mean (S.E.M.). Statistical analysis included analysis of variance (**ANOVA**) with repeated measures over time. This ANOVA was combined with a **Bonferroni *post hoc*** correction to detect which times points differed from each other.
- A ***p*-value of 0.05** was regarded as the level of statistical significance.



Results to be Presented

- The **core** of the paper
- Often includes tables, figures, or both
- An issue: how much the information in the text should overlap with that in the tables and figures
- Should present results **but not comment on them**

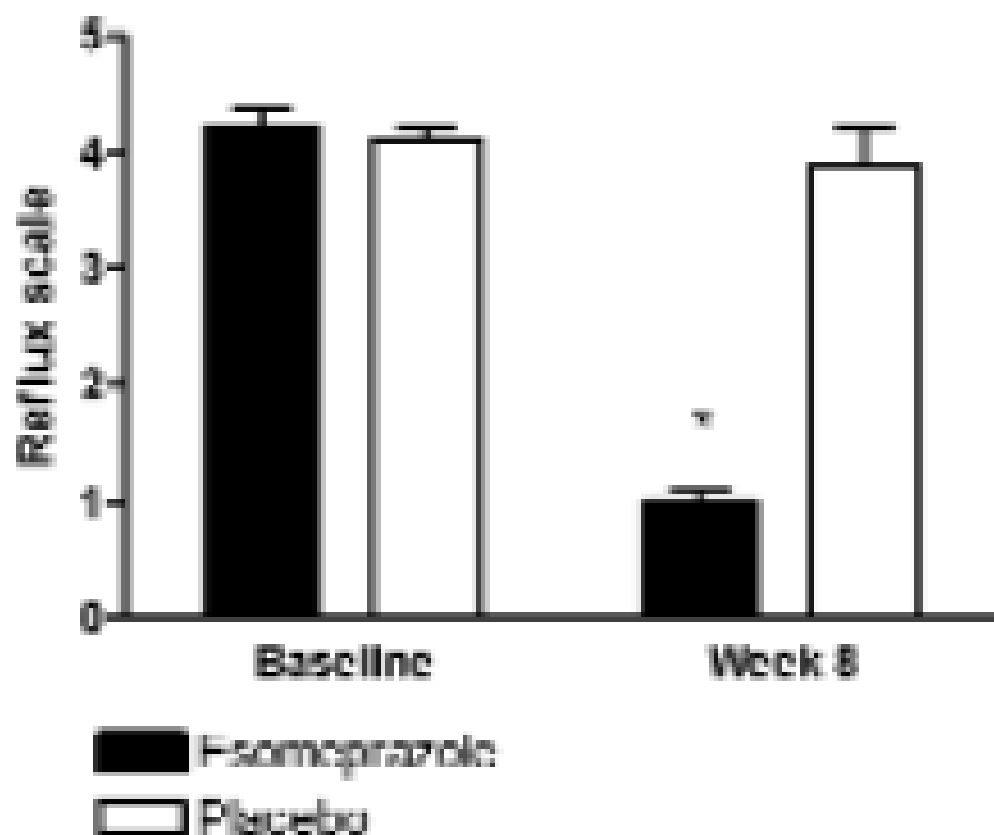


Results Section

- Maintain a balance between **brevity** and **completeness**
- Describe experimental design including treatments measured, how many **replicates**, **controls** etc
- Present the results in an **orderly sequence**
- Not combine with the discussion

FIGURE 1

Reflux symptom scale using the Gastrointestinal Rating Scale. The reflux symptom decreased significantly from 4.2 at baseline to 1.0 in week 8 in the esomeprazole group ($*P < 0.001$).



On-line Microdialysis-AA Technique

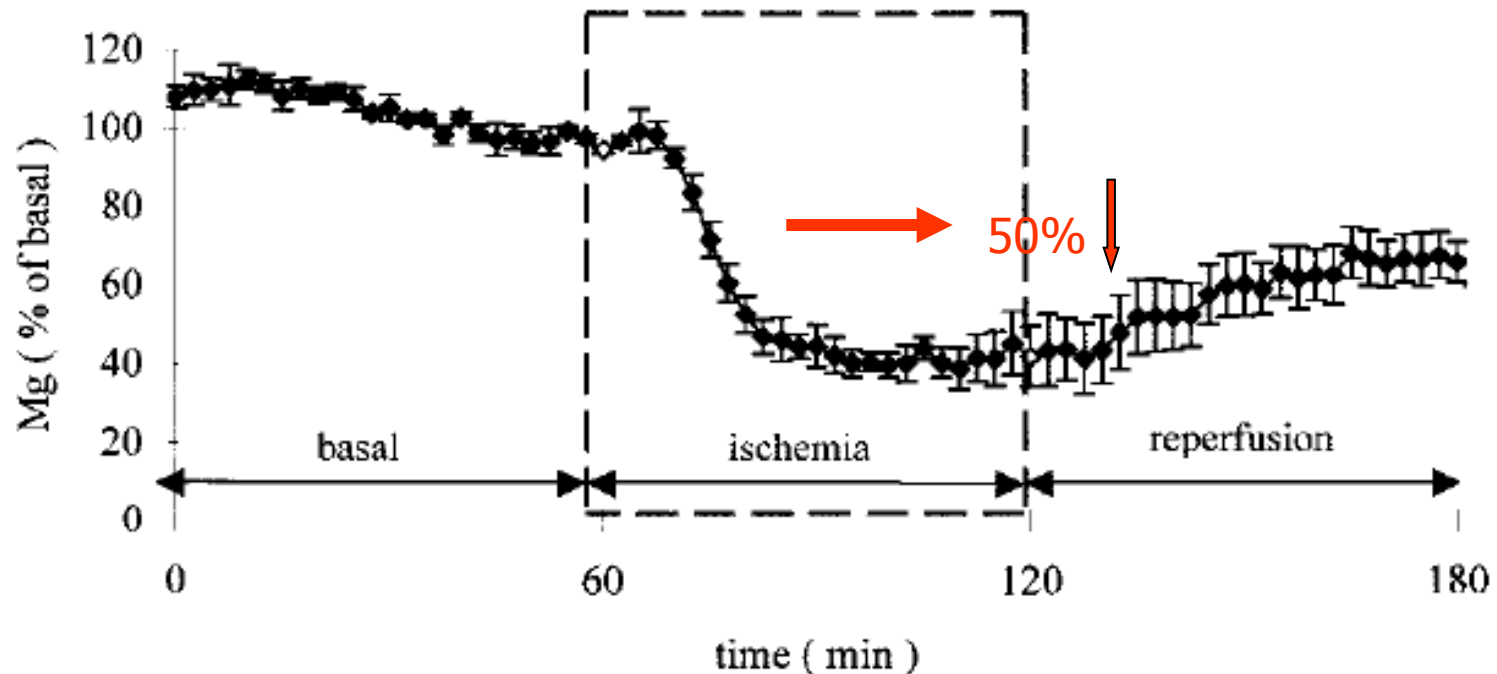
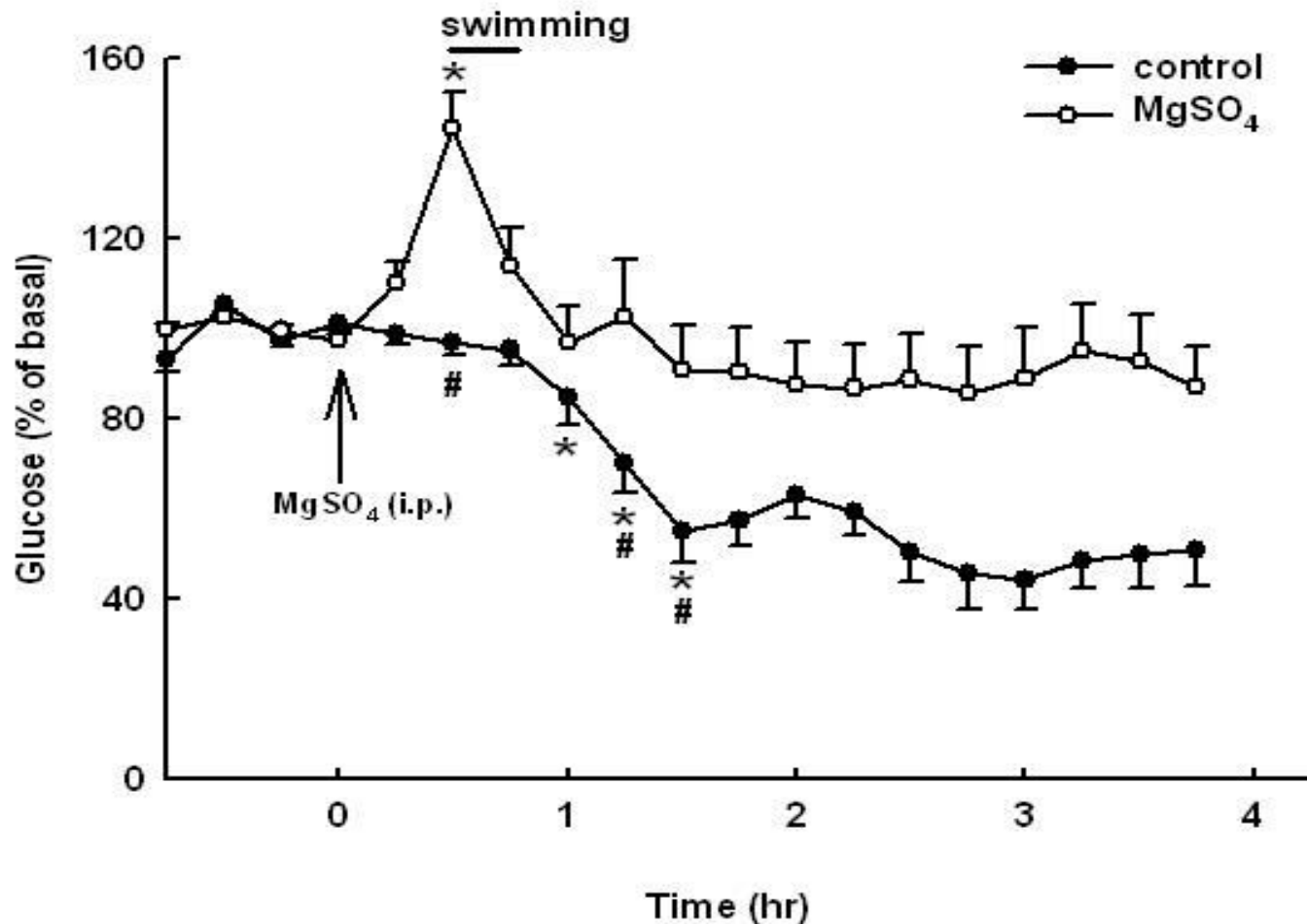
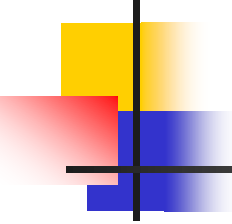


Fig. 2. Time profiles of the changes in Mg concentrations (expressed as % of basal values) in the dialysates from gerbil cortices during 60 min CCA + MCA occlusion and 1 h reperfusion. Data are presented as mean $\pm$ SEM ($n = 6$).

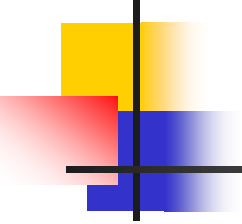
Time profiles of the effect of magnesium sulfate on dynamic changes in glucose levels at rest, during swimming and in the recovery period.





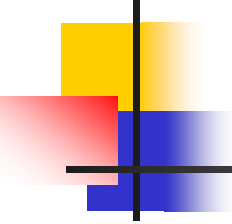
Discussion

- The **heart** of the paper
- State the **interpretations and opinions**, explain the implications of findings and make suggestions **for future research**
- Organization of discussion
 - Outline items from **specific to general**
 - Expand each item



Conclusion

- A default approach is to treat it as **an extended abstract**. But this is also an opportunity to be reflective about what you learned, the uncertainties remaining, the links to other problems, etc.
 - **First paragraph:** focus on what you did. Begin with “We have used...”, “We have investigated...”
 - **Following paragraphs:** one major finding per paragraph. First sentence states the finding, following sentences elaborate.
 - **Final paragraph:** should have some forward-looking perspective. Don't let paper finish on a whimper!



論文寫作順序：

- Materials & methods (past tense)
- Results (past tense)
- Discussion (past tense)
- Conclusion (present tense)
- Introduction (present tense)
- Abstract (past tense)
- Title (present tense)

No short cut!

- Read More?!
- Learn More?!
- Think More!?
- Write More!?



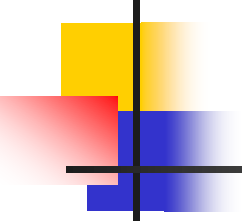
萬事都互相效力，叫愛神的人得益處。
羅馬書 8:28



Good Luck !



After service
fucheng@vghtc.gov.tw

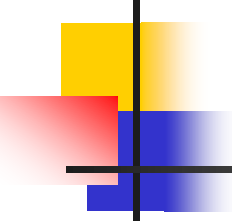


學術期刊投稿策略

陳甫州 博士

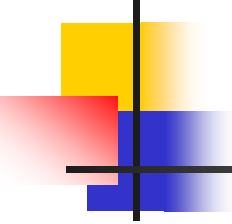
台中榮民總醫院

醫學研究部 幹細胞中心



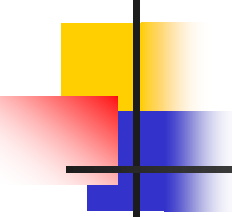
Review a manuscript

- READ Title & Authors
- READ Abstract
- LOOK 1st Paragraph
- LOOK 1st Sentence of Each Paragraph
- LOOK Figure/Table and its Title
- READ The Last paragraph



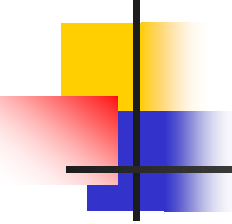
An Eye-catching Title

- Informative
- Attractive
- Correct
 - Contain keywords
 - Remove extra words
- Reflective



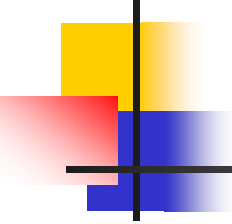
Title page

- Keep title as short as possible, avoid using “study on ..or an investigation..”
- No abbreviation, no trademark or copyrighted names
- Authors (spell out the full name)
 - Indicating the corresponding author (*)
 - First author, more than two first or * author
- E-mail, Institution name, Postal Address with ZIP code, Phone number and FAX
- Running title



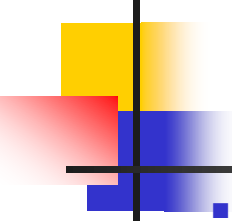
Typical manuscript format

- Introduction 1 page, 300 words
- Materials 2 pages, 600 words
- Results 2 pages, 600 words
- Figures 2 pages
- Tables 1-2 pages
- Discussion 3-4 pages, 900-1200 words



Manuscript submission

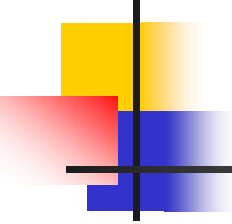
- An appropriate journal
 - Field of interest
 - Quality of paper
 - Impact factor
- Format and style
- Covering letter & running title



Cover letter

April 22, 2009

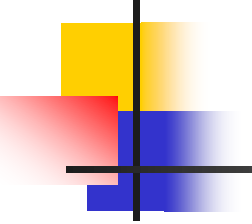
- The Editor-in-Chief,
- Dear Dr. XXX :
- The manuscript entitled "**Magnesium sulfate enhances exercise performance and the availability of blood glucose**" by Ying-Ju Chen, Shen-Ying Chen, Ming-Fu Wang, Mei-Hsiang Hsu, Woei-Ming Liang and Fu-Chou Cheng is submitted as an original research communication in your journal. **In the present study, magnesium sulfate enhances exercise performance in the treadmill exercise. In addition, magnesium sulfate raises blood glucose levels above the basal levels which may have contributed to the enhancement in exercise performance.** This manuscript, or parts of it, has not been, and will not be submitted elsewhere for publication. We believe the paper may be of particular interest to your readers. Please let me know if any further information of this manuscript needed. You may contact me at the following address and phone number. Peace with joy!
-
- Sincerely yours,
-
- Fu-Chou Cheng

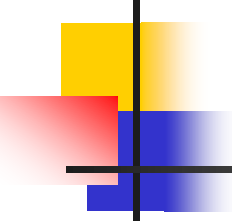


On-line submission

- Web-site and author information
 - Create a personal profile & account
 - User name and passwords
- Personal profiles for all authors
- Manuscript (Text + Figures + Tables)
 - Doc
 - Pdf
- Covering letter, Copyright transfer (original); 3-5 Recommended reviewers
- Confirmation PDF & submit Completion

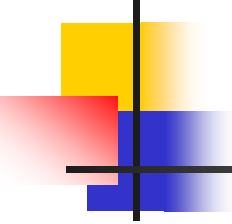
Publication Terminology

- 
- In preparation
 - Submission
 - Letter for receipt of manuscript
 - Rejected (Editor-in-Chief, A. Editor)
 - Reviewers & Reviewing process
 - Letter for reviewing results
 - Revision request
 - Re-submission (**revised**)
 - Accepted (**Notification of acceptance**)
 - Proofreading (**in press**)
 - Published (reprint, pdf file)



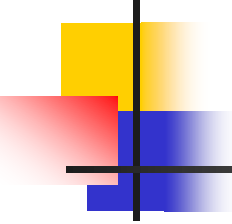
Timing for making decision

- Immediate rejection
- Ask for agreement for reviewing
- Send to reviewers
- Ask the third reviewer
- Making decision
- Current status of the manuscript



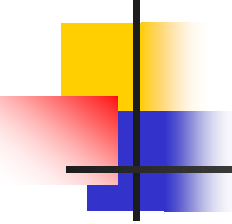
Editor's decision

- Journal scope and readers
- Satisfactory distribution of topics & authors
- Manuscript's message (originality, novelty, significance)
- Scientific validation and evidence supporting the conclusion
- Quality of the presentation
- Grammatical evaluation



Good News

- Unconditional acceptance
- Acceptance with minor revision
 - **Correction** for spelling and grammatical errors
 - **Improving** illustration & tables
 - **Eliminating** unmeaningful statements
 - **Shortening** text or right format



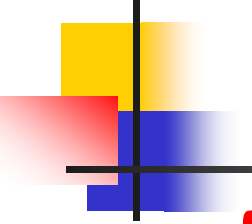
Revising manuscript

- Read comments between the lines
- Point-by-point responses
 - Answer to all comments
 - Answer to the point
 - Point-by-point
- Do not be frustrated by English problems

Revision: to work together as a team

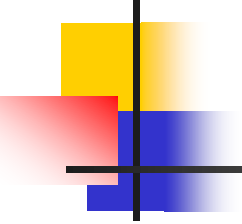


「萬事都互相效力，叫愛神的人得益處。」
羅馬書 8章28節



Discussion-1

- **Point out** major findings/contribution
- **Explain** how your results relate to expectations and literature
- **Discuss** and evaluate conflicting explanations of the results
- **Defend** your answer, *if necessary*, by explaining **why** yes, **why** not?



Discussion-2

- State the central conclusion from your data in this study - first paragraph
- Provide evidence-base data from other papers
- Raise viewpoints and findings from your interpretation of these data



Some yes,... some no

Results from the present study indicate that short-term GH supplementation initiated late in life does not improve physical performance or muscle mass and strength. Furthermore, age-related skeletal muscle apoptosis was not attenuated by the hormonal intervention. GH supplementation also resulted in increased DNA fragmentation (indicative of apoptosis) in soleus muscle. In striking contrast, the short-term program of physical exercise improved exercise capacity and muscle strength at old age and reversed the age-associated increase in skeletal muscle apoptosis in EDL.

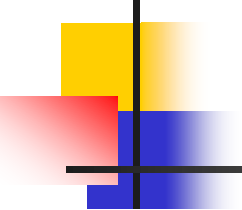
The blood sampling procedure was slightly modified according to the previously described methods (de Wit et al. 2001; Harms and Ojeda 1974). In general, they introduced a catheter to withdraw blood samples from the jugular vein in anesthetized animals. Our procedures described in the method section were much less stressful to the animal than the above methods. In the present study, the catheter was also tunneled under the animal's skin to the nape of the back to prevent damage to the catheter by the animals. The implanted catheter can be used to either administer drugs or collect blood samples with less stress to the animals which are obviously conscious during the exercise sessions. In addition, a computer program was used to ensure that a blood volume of 50 μ L was collected automatically.



Agreement with literature

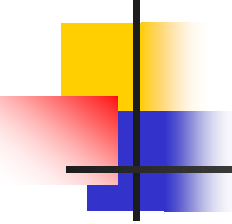
Volpe 2007; Nielsen and Lukaski 2006). There is also evidence that magnesium deficiency can result in a significant reduction in exercise performance and a decline in optimal sport performance (Bohl and Volpe 2002; Nielsen and Lukaski 2006).

These results have been demonstrated in terms of associations among variables such as VO_2 , heart rate, performance during endurance exercise, duration of exercise and other physiological parameters in athletes (Bohl and Volpe 2002; Maxwell and Volpe 2007). In our results, retention frequencies at the speed of 20 m/min among rats treated with magnesium sulfate were significantly reduced compared with those of the control group. Magnesium supplementation is thought to provide a boost to exercise



Agreement with literature

mechanism(Dufour et al. 2009; Eliakim et al. 2006). Glucose concentrations were stimulated and elevated at the beginning of the exercise session. The initial increase in blood glucose concentrations may have been induced in part by the initial stress caused by the moving belt and also by the stimulation resulting from the rat's awareness of the forced exercise. These stresses may induce an increase in plasma epinephrine and norepinephrine, neurotransmitters that stimulate hepatic glucose production from liver in the peripheral system (Dufour et al. 2009).



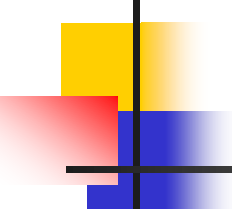
Disagreement with literature

- Several studies....
- Several conditions...
- One... the other...

Lactate production has been considered to be the major cause of muscle fatigue and a positive influence on muscle contraction during exercise. Numerous studies have indicated that glucose and lactate concentrations are closely correlated with exercise

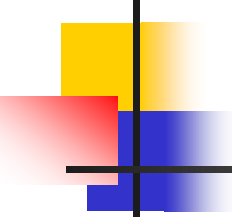
More.. Few....

Several studies have evaluated the incidence of hypomagnesemia in adults after heart surgery.⁴⁻⁹ However, there have been few investigations evaluating the perioperative Mg concentrations in children.^{11,12} The mechanism for hypomagnesemia in pediatric patients undergoing heart surgery is probably multifactorial. Increased perioperative urinary Mg losses can occur after administration of loop or thiazide diuretics.¹³ The development of a metabolic alkalosis also can cause excessive renal loss of Mg.¹⁴ Flink *et al.* reported that catecholamine-induced increases in circulating free fatty acid concentrations may chelate Mg ions (both intracellular and extracellular), with subsequent decreases in circulating Mg concentrations.¹⁵ Moreover, hemodilution during CPB



Unclear.. Some...difficult to..

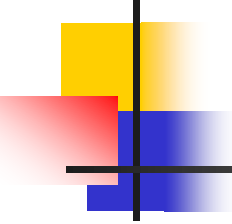
formation of a complex with the ATP or ADP substrate. It remains unclear what concentration of magnesium deficiency may result in physiological impairment. Some studies have demonstrated that magnesium supplementation enhanced exercise capacity and exercise performance (Nielsen and Lukaski 2006; Finstad et al. 2001). However, there were no significant effects of magnesium supplementation on aerobic or anaerobic exercise. It is difficult to establish a causal relationship between enhanced exercise performance due to the glucose concentrations above the baseline, increased magnesium loading, or other unknown mechanisms. Finstad suggested that



Showed... did or did not....

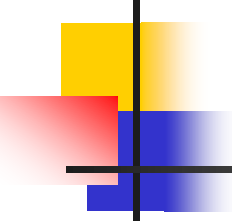
Magnesium concentrations showed a significant decrease after CPB. The iMg concentration was 68.8% of the pre-surgical value immediately after the surgery; it returned to the pre-surgical value at 48 h after the surgery and showed quicker recovery than the concentrations of SMg.

Hypomagnesemia after CPB did not increase the incidence of dysrhythmia in pediatric patients.



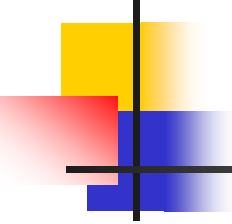
Major revision... Or,

- **Major revision**
 - Similar to minor revision
 - Suggestion or comments from reviewers
 - Editor's comments
- **Rejection?**
 - Can not be accepted at the present form
 - Rejected, but encouraged to resubmit a new version



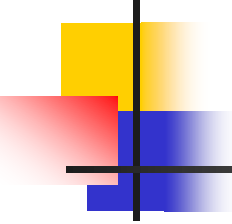
Manuscript gets reject

- Improper experimental design
- Data not support the conclusion
- Not provide new information
(originality, novelty and significance)
- Attitude
 - Not the end of the world
 - Re-submission ?



Rebuttal or appeal for rejection (or revised manuscript)

- **Wrong comments** from inexperienced referees
- Excellent review comments **but wrong decision** from editors
- Others



Take home messages

- Endnote (Tool)
- Introduction (Problems)
- Results (Core)
- Discussion (Heart)



Good Luck !



After service
vc1035@gmail.com