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
How to Cure 1 Billion People? -- Defeat Neglected Tropical Diseases

Gaming for Profits: Real Money from Virtual Worlds!

How Birth Order Affects Your Personality?
編輯及使用 EndNote XII

- Import Reference
- Management Reference
- Retrieval Reference
- Writing & Reference
Import 輸入文獻資料

Data source 1
Data source 2
Data source 3
Data source 4
Data source 5

FILTERS

Library 1
Library 2
Results Title=(taiwan)
Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI.

Results: 13,305

Refine Results
Search within results for

Subject Areas
- AREA STUDIES (874)
- PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH (770)
- ENVIRONMENTAL SCIENCES (892)
- GEO SCIENCES, MULTIDISCIPLINARY (603)
- ZOOLOGY (588)

Document Types
- ARTICLE (10,165)
- BOOK REVIEW (1,089)
- MEETING ABSTRACT (841)
- EDITORIAL MATERIAL (358)
- NEWS ITEM (243)

1. Title: Two new soles of the genus Aseraggodes (Pleuronectiformes: Soleidae) from Taiwan and Japan
   Author(s): Randall JE, Senou H
   Source: ZOOLOGICAL STUDIES Volume: 46 Issue: 3 Pages: 303-310 Published: MAY 2007
   Times Cited: 0

2. Title: A review of the genus Cucujus Fabricius (Insecta: Cucuoidea: Cucujidae) from Taiwan, Japan, and China, with descriptions of two new species and the larvae of Cucujus泯izzechi Grouvelle
   Author(s): Lee CF, Sato M
   Source: ZOOLOGICAL STUDIES Volume: 46 Issue: 3 Pages: 311-321 Published: MAY 2007
   Times Cited: 0

3. Title: Some reproductive aspects of Gecarcoidea Islandii (Brachyura: Gecarcinidae) in Taiwan
   Author(s): Liu HC, Jeng MS
   Source: ZOOLOGICAL STUDIES Volume: 46 Issue: 3 Pages: 347-354 Published: MAY 2007
   Times Cited: 0

Output Records
- Step 1: Selected Records on page
- All records on page
- Records

Step 2:
- Authors, Title, Source
- plus Abstract
- Full Record
- plus Cited Reference

Step 3:
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Boltzmann's Constant (k)

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Boltzmann's Constant (k).
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Showing 8 of 8 references in Group. (All References: 222)
Writing a manuscript with EndNote

- Cite While You Write

- 配合Word文書處理軟體撰寫文章
- 在文章內文中插入引用文獻
- 自動產生參考書目清單
- 可設定期刊投稿格式
1. Select ref.

2. Back to Word
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).

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).
插入圖或表

1. 按下EndNote工具列上的Find Figure(s)
2. 查詢欲插入的圖或表
3. 按Insert插入
文章完成後，按下EndNote工具列的Remove Field Codes可將參數移除，新的文章將無法再利用EndNote進行修改。
備份 EndNote 檔案

- 複製 .enl 及 .Data 二檔案
- 在 EndNote 工具列選揚 File → Compressed Library (.enlx) → Create 或是 Create & Email
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實證醫學 | 論文寫作 | 利用指導 | 軟體下載 | 常見問題 | 最近動態
Remain Calm...Writing

Originality, Novelty, Significance
Writing

- Clear
- Idea
- Figures
- Tables
The IMRaD Format

- **Introduction:** What was the question?
- **Methods:** How did you try to answer it?
- **Results:** What did you find?
- **Discussion:** What does it mean?

- A format used in some journals: IRDaM
- People read sections in various orders.
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±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).
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 ± 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
The Editor-in-Chief, April 22, 2009

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
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 μL was collected automatically.
Agreement with literature

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 VO₂, 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).
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.
Several studies have evaluated the incidence of hypomagnesemia in adults after heart surgery. However, there have been few investigations evaluating the perioperative Mg concentrations in children. 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. The development of a metabolic alkalosis also can cause excessive renal loss of Mg. 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. Moreover, hemodilution during CPB
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
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

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