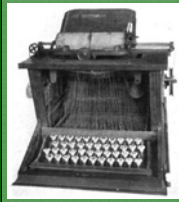


Desatero pravidel psaní (odborného) textu



Microsoft Excel - Cuckoo_data_Finland_2009-05-17

Soubor Úpravy Zobrazit Vložit Formát Data Odkaz

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Field	nest	Year	month	Year	Date	Hour	Age	Sex	Mass	Tarsus	Wing	Length	Bill	Bill		
2	1	NE	2009	1	2009	16.6	13	6	3	3.40							
3	1	NE	2009	1	2009	17.6	10	2	3	5.70							
4	1	NE	2009	1	2009	18.6	12	2	3	6.90							
5	1	NE	2009	1	2009	19.6	10	3	3	13.70							
6	1	NE	2009	1	2009	20.6	9	4	3	13.20							
7	1	NE	2009	1	2009	21.6	20	5	3	32.08	19.06	15.00	13.90				
8	1	NE	2009	1	2009	22.6	10	6	3	36.33	20.20	16.51	14.27				
9	1	NE	2009	1	2009	23.6	14	7	4	46.69	22.27	17.22	14.89				
10	1	NE	2009	1	2009	24.6	15	8	5	58.04	23.67	18.33	15.93				

[Re: Ethology - ETH-08-0089](#)
[BES: your user account modified](#)
[Re: Ethology - ETH-08-0089](#)
[revision submitted - ETH-08-0089 R1](#)
[Evolution - Account Modified in Manuscript Central](#)
[Re: Ethology - ETH-08-0089](#)
[Ethology - ETH-08-0089](#)
[Ethology - Account Modified in Manuscript Central](#)
[Evolution - Ms. 08-0431](#)
[FW: Biology Letters - Decision on Manuscript ID RS...](#)

Tomáš Grim

Katedra zoologie a Ornitologická laboratoř
 Univerzita Palackého, Olomouc

Odb(p)orné šlamastyky

„Perifyton poskytuje daleko lepší útlum rychlosti proudění vody než makrofyta. Hodnota snížené rychlosti proudění vody prostřednictvím perifytonu je většinou stejná ve srovnání s hodnotou snížené rychlosti proudění vody prostřednictvím makrofyt, kde tato hodnota může být odlišná.“



„Za hlavní zdroj potravy v horních tocích se považuje detritus až po toky V. řádu. V V. - VI. řádech převažují řasy jako hlavní zdroj potravy. Určitou výjimku tvoří řasy, zatím není známo do jaké míry je zoobentos schopen je trávit.“

Z cyklu „Šílenství“

Odb(p)orné šlamastyky

ABSTRAKT

Tato bakalářská práce je literární rešerší shrnující dosavadní informace o proudění vody a o jeho vlivu na ekosystém vodního toku. Dále shrnuje informace o významu submerzní vegetace v tekoucích vodách a o vlivu proudění na submerzní vegetaci. Rešerše uvádí také poznatky o významu organického materiálu v tekoucích vodách, jeho původu a velikostní struktuře. Zdůrazňuje význam organického materiálu jako základního zdroje energie pro zoobentos. Dále se práce zabývá vlivem proudění na zoobentos, který osídluje minerální a organický substrát, a u jehož jednotlivých zástupců je vyvinuta řada adaptací pro život v tekoucích vodách. Zdrojem těchto informací jsou především články z mezinárodních vědeckých časopisů.

Z cyklu „Šílenství“

Následky...

Nutno říct, že autorka si v této druhé verzi bakalářské práce dala podstatně více práce především z gramatikou a stylistickým zpracováním, přesto se však v textu vyskytuje řada neobratných až nesmyslných formulací, které mnohde pramení nepochopení problematiky. Přestože seznam literatury čítá přes 90 položek, velká část citovaných údajů je z nepůvodních zdrojů, z monografií a učebních textů. Rešerše je sice logicky utříděna do kapitol podle jednotlivých dílčích témat (proudění vody, organické látky, makrofyta, zoobentos), ale přináší jen minimum nových informací, které by nastolily otázky pro další výzkum.

Z posudku

Odb(p)orné šlamastyky

pravidlo
marginality

Tab. 4. Význam jednotlivých faktorů prostředí na celkový počet druhů nočních motýlů na studovaných lesních fragmentech v okolí Měňan.

Faktor	df	Deviance	Resid. Df	Resid. Dev.	F	Pr(>F)
NULL			51	259,32		
Typ vegetace	5	86,961	46	172,359	6,8221	0,0001812 ***
poly(vzd. od kraje,2)	3	50,314	43	122,045	6,5785	0,0013113 **
poly(placha,2)	3	27,566	40	94,480	3,6042	0,0013113 **
poly(konektivita,5,3)	3	5,032	37	89,447	0,6580	0,5837695
obvod	1	1,761	36	87,687	0,6906	0,4119220
poměr	1	2,846	35	84,841	1,1163	0,2983907
orientace	1	1,728	34	83,113	0,6778	0,4162688
sklon	1	0,313	33	82,800	0,1227	0,7283859

Charakteristika modelu: quasipoisson, link: log

V kategorii „všechny druhy“ ve vztahu k diverzitě, byl určující parametr prostředí *konektivita* a *vzdálenost od okraje fragmentu* (Tab. 5.). Ostatní testované faktory prostředí jsou statisticky nevýznamné. Nejlepší kombinace faktorů vysvětlující druhovou diverzitu je: „diverzita ~ poly(konektivita0.5,3) + poly(vzd.od.kraje,2) + obvod + poměr“ (R-squared: 0,3068)

Tab. 5. Význam jednotlivých faktorů prostředí pro diverzitu všech motýlů v okolí Měňan.

Faktor	df	Deviance	Resid. Df	Resid Dev	F	Pr(>F)
NULL			51	3,2869		
poly(konektivita,5,3)	3	0,65690	48	2,6300	4,5399	0,009021 **

Z cyklu „Standard“

Co je opravdu podstatné?

- jak se vyhnout tvorbě paskvilů?
- výchozí předpoklad:
- konkrétní pravidla → obecné principy
- **obecné principy** → konkrétní pravidla

zdravý selský rozum☺

Konkrétní doporučení - paušálně?

optimální	slov
název	10–12
abstrakt	200
rukopis	6 000
věta	15–20
odstavec	150

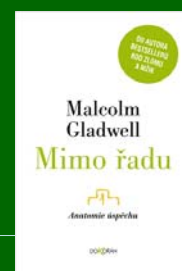


Co je opravdu podstatné?

- otázka *přístupu*
- způsoby myšlení
- konkrétní *praktická* pravidla, ale i ...
- metapravidla – neopakovat se, krok stranou
- „talent od narození“ vs. realita
- pravidlo 10 000 hodin

„Nejjistější pomůcka k psaní je trochu
lepídky na mé židli.“ (A. Trollope)

zdravý selský rozum☺



Co je opravdu podstatné?

When you first arrive, read and think widely and exhaustively for a year.

S. C. Stearns

- Jak se naučit psát? Hodně číst!!!
 - *ne* sběr dat, analýzy, psaní apod.!
1. znalost oboru – co a jak se řeší?
 2. inspirace – co budu já řešit?
 3. „infikace“ vědeckým stylem psaní
 4. jak dlouhá má být věta?
 5. jak má vypadat tabulka?

<http://www.yale.edu/eeb/stearns/advice.htm>

Co je opravdu podstatné?

Assume that everything you read is

bullshit until the author manages to convince you that it isn't.

S. C. Stearns

- kritické myšlení
- *sebereflexe* – co se mi čte dobře?
- *sebekritika* – co jsem napsal za b...

Reakcí na špatnou práci u nás bývá často mlčení, nebo dokonce vychválení (hendi-kepující dědictví komunistické éry). První přístup škodí pasivně, druhý aktivně. Bez kritické reflexe chyb v cizí i vlastní práci se opakovaným chybám nelze vyhnout.

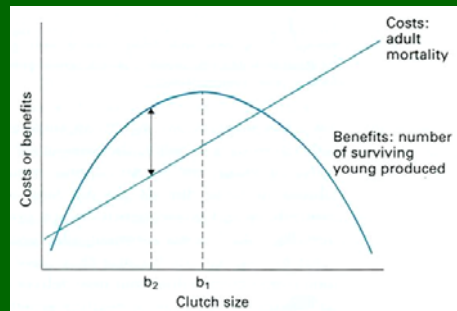


Grim 2011: Tichodroma

Co je opravdu podstatné?

- Paretův princip
- 80 % důsledků pramení z 20 % příčin
- plánování a rozdělení práce

- optimalizace
 - vzorek
 - angličtina
 - statistika - základy!
 - pečlivost



zdravý selský rozum©

Co je opravdu podstatné?

- umění přesvědčit ...
- ... kolegy, redaktory, recenzenty, sponzory ...

It is not sufficient to have a good idea; it is even more important to develop and publicize it. Munroe and MacArthur and Wilson had the same basic idea. Munroe, distracted by other interests and perhaps frustrated in his initial attempts to publish, allowed his idea to languish. MacArthur and Wilson vigorously pursued and advocated their idea, and had a major impact on their science.

AN EQUILIBRIUM THEORY OF INSULAR ZOOGEOGRAPHY

ROBERT H. MACARTHUR¹ AND EDWARD O. WILSON²

(Excerpted and modified from Brown and Lomolino 1989.)

Brown & Lomolino 1998: Biogeography. 2nd ed. (s. 373)

Recenzní řízení

	1 (No)	2	3	4	5 (Yes)
1. Does the Ms contain enough original material?	☐	☐	☐	☐	☐
2. Is the topic suitable for <i>Behavioral Ecology & Sociobiology</i> ?	☐	☐	☐	☐	☐
3. How do you rate its novelty value?	☐	☐	☐	☐	☐
4. Is the theoretical reasoning sound?	☐	☐	☐	☐	☐
5. Is the order of presentation logical?	☐	☐	☐	☐	☐
6. Are all statistical tests applied correctly? (if applicable)	☐	☐	☐	☐	☐
7. Are all the figures and tables necessary?	☐	☐	☐	☐	☐
8. Do the conclusions follow from the data?	☐	☐	☐	☐	☐
9. Is the literature adequately reviewed?	☐	☐	☐	☐	☐
10. Does the paper read well?	☐	☐	☐	☐	☐
11. Are there problems with animal ethics?	☐	☐	☐	☐	☐



	1	2	3	4	5
How would you rate the overall scholarly merit and presentation of this manuscript?	☐	☐	☐	☐	☐

Recommendation

☐ Accepted as is

☐ Accepted, subject to minor revisions

☐ Substantially revised (major revision)

☐ Rejected, and resubmitted with new reviewing process

☐ Rejected

Behav. Ecol. Sociobiol.

Recenzní řízení

Please complete the following (when necessary use the appropriate comment boxes to expand on your answers):	Yes	No	N/A
REV Title, abstract and introduction - are these appropriate and informative?	☒	☐	☐
REV If the manuscript is an original contribution, has the material it describes been published previously?	☐	☐	☐
REV Is the language clear, logical, concise and direct?	☐	☐	☐
REV Are the figures of sufficiently high technical standard, appropriate and necessary?	☐	☐	☐
REV Are any additional figures required?	☐	☐	☐
REV Colour plates: is it essential that they are in colour? (NB authors may bear the cost)	☐	☐	☐
REV Is the length of the paper justified?	☐	☐	☐
REV Should some sections be rearranged, expanded or condensed?	☐	☐	☐
REV Have you any ethical concerns about this paper, e.g. regarding animal experimentation, human studies or conservation issues?	☐	☐	☐



Quality of the paper:

☐ Outstanding paper of the highest international importance

☐ Excellent paper, making an important contribution to the field

☐ Good paper, worth publishing in Biol J Linn Soc

☐ Good paper, but not appropriate (i.e. sufficiently evolutionary) for Biol J Linn Soc

☐ Paper may be acceptable after major revision

☐ Paper is worthwhile, but of insufficient interest, quality or importance

☐ Paper contains errors in experimental method, analysis or logic: should not be published

Recommendation

☐ Accept

☐ Minor Revision

☐ Major Revision

☐ Reject & Resubmit

☐ Reject

Biol. J. Linn. Soc.

Recenzní řízení

Assessment of Innovation and General Appeal:

- ☐ Manuscript represents innovative contribution of broad interest
- ☐ Manuscript represents innovative contribution of limited appeal
- ☐ Manuscript is largely confirmatory and of general interest
- ☐ Manuscript is largely confirmatory and of only specialized interest
- ☐ Manuscript is limited in scope and appeal

Recommendation

- ☐ Excellent manuscript, recommend publication (only very minor revisions required)
- ☐ Good manuscript, needs minor to moderate revision, followed by a re-evaluation by the Handling Editor
- ☐ Potentially Acceptable manuscript, but a major revision is needed, with re-assessment by external reviewers
- ☐ Reject but allow resubmission (a substantially revised manuscript with assessment by external reviewers may be considered)
- ☐ Reject and do not allow resubmission



Oecologia

Recenzní řízení

SCIENCE ONLINE SCIENCE MAGAZINE HOME SCIENCE NOW NEXT ISSUE STS/MS/SAGE SCIENCE CAREERS E-HWYETPLACE

Science

ScienceReferee

Click **1** for instructions on reviewing this manuscript.

Please enter your Evaluation for manuscript number :

Title:

Please enter your evaluation in the boxes below. Comments to be sent to the author and a checked rating and recommendation using a separate word processor, save it, then paste your review into the boxes below. For security, we have implemented a timeout to continue using the site or send your review after that time (you will have to exit and log in again). To paste your review in, "edit/paste" on the menu above. If you do type your review in here, please copy it first and save it elsewhere before sending an acknowledgement if we have successfully received your review. **Maximize the screen if you don't see a scroll bar.**

Overall Evaluation (Required)

- ☐ Excellent and Exciting
- ☐ Above Average
- ☐ Mediocre or Poor
- ☐ Too Specialized

Recommended Action (Required)

- ☐ Publish w/o Delay
- ☐ Publish with minor revisions
- ☐ Not highest priority
- ☐ Needs re-review after revisions
- ☐ Reject



The final selection is based on **relative quality** of papers rather than absolute merit and is constrained by available space in Science and our **commitment to balance subject matter**.

Science

Vřele doporučeno ke čtení!

Stearns S. C. 1987: Some Modest Advice for Graduate Students.

<http://www.yale.edu/eeb/stearns/advice.htm>

Thompson J. N. 2005: On being a successful graduate student in the sciences.

<http://bio.research.ucsc.edu/people/thompson/StudentSuccess.pdf>

Klein J. 1998: Vláda průměrnosti. Vesmír 77: 48–49, 107–109.

<http://www.vesmír.cz/clanek/vlada-prumernosti>

Novotný V. 2000: Kargo kult, český vědecký. Vesmír 79: 284.

<http://www.vesmír.cz/clanek/kargo-kult-cesky-vedecky>

O'Connor R. J. 2000: Why ecology lags behind biology. Scientist 14: 35–37.



Několik prostých doporučení ...

Yale University

Department of Ecology & Evolutionary Biology

Stephen C. Stearns, Ph.D.

Bio | Career | Honors | Publications | **Some Modest Advice for Graduate Students** | Designs for Learning

Some Modest Advice for Graduate Students
by Stephen C. Stearns

Always Prepare for the Worst.

Some of the greatest catastrophes in graduate education could have been avoided by a little intelligent foresight. Be cynical. Assume that your proposed research might not work, and that one of your faculty advisers might become unsupportive - or even hostile. Plan for alternatives.

Nobody cares about you.

The Evolution of Life Histories
Stephen C. Stearns

<http://www.yale.edu/eeb/stearns/advice.htm>

Několik prostých doporučení ...

- Always prepare for the worst
- Nobody cares about you
- You must know why your work is important
- Psychological problems are the biggest barrier
- Avoid taking lectures - they're usually inefficient
- Write a proposal and get it criticized

<http://www.yale.edu/eeb/stearns/advice.htm>

Několik prostých doporučení ...

Start Publishing Early.

Don't kid yourself. You may have gotten into this game out of your love for plants and animals, your curiosity about nature, and your drive to know the truth, but you won't be able to get a job and stay in it unless you publish. You need to publish substantial articles in internationally recognized, refereed journals. Without them, you can forget a career in science. This sounds brutal, but there are good reasons for it, and it can be a joyful challenge and fulfillment. Science is shared knowledge. Until the results are effectively communicated, they in effect do not exist. Publishing is part of the job, and until it is done, the work is not complete. You must master the skill of writing clear, concise, well-organized scientific papers. Here are some tips about getting into the publishing game.

Publish Regularly, But Not Too Much.

The pressure to publish has corroded the quality of journals and the quality of intellectual life. It is far better to have published a few papers of high quality that are widely read than it is to have published a long string of minor articles that are quickly forgotten. You do have to be realistic. You will need publications to get a post-doc, and you will need more to get a faculty position and then tenure. However, to the extent that you can gather your work together in substantial packages of real quality, you will be doing both yourself and your field a favor.

Most people publish only a few papers that make any difference. Most papers are cited little or not at all. About 10% of the articles published receive 90% of the citations. A paper that is not cited is time and effort wasted. Go for quality, not for quantity. This will take courage and stubbornness, but you won't regret it. If you are publishing one or two carefully considered, substantial papers in good, refereed journals each year, you're doing very well - and you've taken time to do the job right.

<http://www.yale.edu/eeb/stearns/advice.htm>

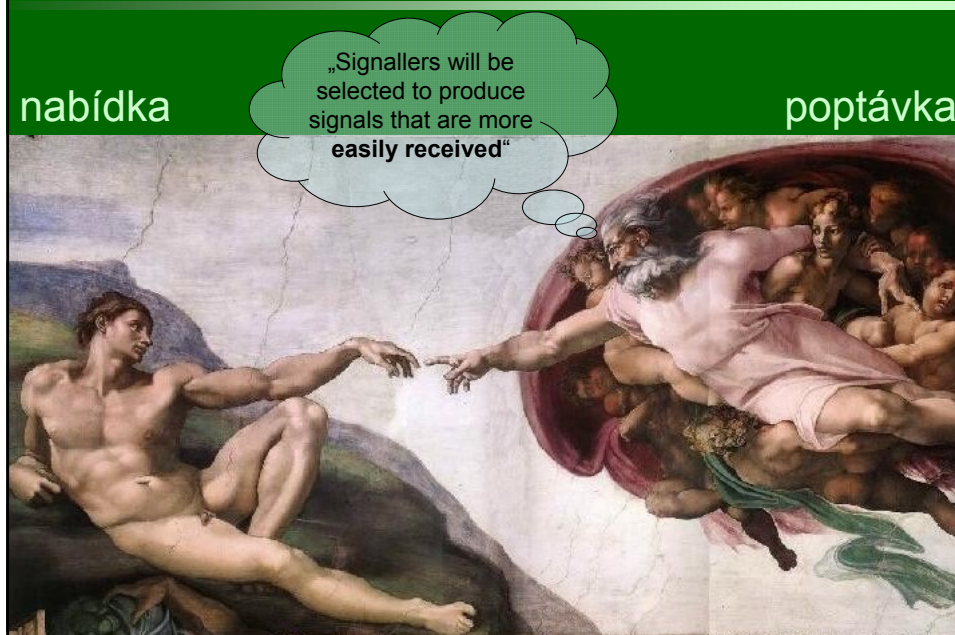
Publish or perish ► Publish & flourish

„Omlouvám se za tak dlouhý dopis, neměl jsem čas napsat kratší.“

(B. Pascal)

- nepublikované výsledky neexistují
- je mnoho způsobů psaní ... které nefungují
- následující platí (většinou) pro *jakýkoli* text!

Leitmotiv – receiver psychology



Autorství

- nejčastější příčina etických konfliktů
- vynucované autorství (šéf labu, ...)
- autorství je právo ... (benefit)
- ... a zodpovědnost! (cost)

Statement on authorship. Authorship of a paper carries with it responsibility as well as credit. All those whose names appear as authors should have played a significant role in designing or carrying out the research, writing the manuscript, or providing extensive guidance to the execution of the project. They should be able to present and defend the work in a public forum. Honorary authorship is to be avoided. All authors must be in agreement on both the submission and full content of any article carrying their names. Any violation of these conditions represents academic misconduct and will be dealt with accordingly.



Autorství

- „autorský autismus“ vs. dělba práce
- autorství vs. „Poděkování“
- pořadí autorů

Authorship credit should be based only on substantial contributions to (a) conception and design, or analysis and interpretation of data; and to (b) drafting the article or revising it critically for important intellectual content; and on (c) final approval of the version to be published. Conditions (a), (b), and (c) must all be met. Participation solely in the acquisition of funding or the collection of data does not justify authorship. General supervision of the research group is not sufficient for authorship. Any part of an article critical to its main conclusions must be the responsibility of at least one author.

Uniform requirements for manuscripts submitted to biomedical journals

International Committee of Medical Journal Editors

ICMJE 1999: Med. Educ. (<http://www.icmje.org/>)

Autorství

- myšlenky (hypotéza, design) vs. sběr dat

away from the states that were functional in a former ecological context.

I thank A. Lahti for aiding in the development of the project from the start and performing all field measurements; R. Payne for extensive

PNAS | December 13, 2005 | vol. 102 | no. 50 | 18061

Author Contributions

Conceived and designed the experiments: CY WL YC SS FT AM ER BGS. Performed the experiments: CY WL YC SS. Analyzed the data: CY APM AA FF BGS. Wrote the paper: CY WL FT APM AA FF AM ER BGS.

Lahti 2005: PNAS

Yang et al. PLoS ONE 2010

Autorství

- klíčový **první** autor (myšlenka, „první píše“)
- poslední – senior author (školitel)
- author for correspondence
- „vata“ mezi tím

Nature requires authors to specify the contribution made by their co-authors in the end notes of the paper (see section 5.5). If authors regard it as essential to indicate that two or more co-authors are equal in status, they may be identified by an asterisk symbol with the caption These authors contributed equally to this work immediately under the address list. If more than three co-authors are equal in status, this should be indicated in the author contributions statement. Present addresses appear immediately below the author list (below the footnote rule at

Eight reasons why optimal foraging theory is a complete waste of time

G. J. Pierce and J. G. Ollason, Culterty Field Station, Univ. of Aberdeen, Newburgh, Ellon, Aberdeenshire AB4 0AA, Scotland (no significance is to be attached to the order of the authors' names)

Pierce and Ollason 1987: Oikos

Význam výsledků

- autoři **přeceňují** význam své práce
- až 95% MS „rejected“

Kukačka obecná

Oldřich Mikulica

THE ROYAL SOCIETY **biology letters**

Nestling discrimination without recognition: a possible defence mechanism for hosts towards cuckoo parasitism?

Tomáš Grim^{1*}, Oddmund Kleven² and Oldřich Mikulica¹

- autoři často **neví**, co jejich data říkají:
- Živa 1993 vs. Proc. R. Soc. 2003

Dlouhodobé pozorování vědců a sebereflexe☺

Význam výsledků

- např. obyčejné pozorování:
- kos na zahradě ► mlčet

- ústřičník na Dunaji ►

Tichodroma	Vol. 16	Bratislava, 2004
Další výskyt ústřičníka velkého (<i>Haematopus ostralegus</i>) v hnízdním období na Dunaji A new occurrence of oystercatcher (<i>Haematopus ostralegus</i>) at Danube river during the breeding season Beata Matysioková, Tomáš Grim		

- lelek bělokřídý ►

The Wilson Journal of Ornithology 118(1):109–112, 2006

A New Record of the Endangered White-winged Nightjar (*Eleothreptus candicans*) from Beni, Bolivia

Tomáš Grim^{1,3} and Radim Šumbera²

- datel knížecí ►



Co chci sdělit?

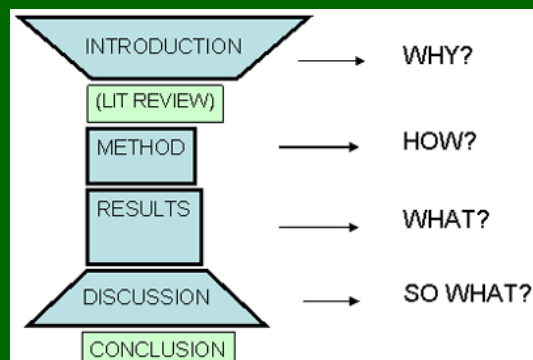
- take-home message
- „Who cares?“ – Koho to bude zajímat?
- „So what?“ – Proč je to zajímavé?
- „zatím nevíme ...“
- ... nic☺



Day & Gastel 2006: How to write and publish scientific paper. G. Press.

IMRAD – pořadí částí

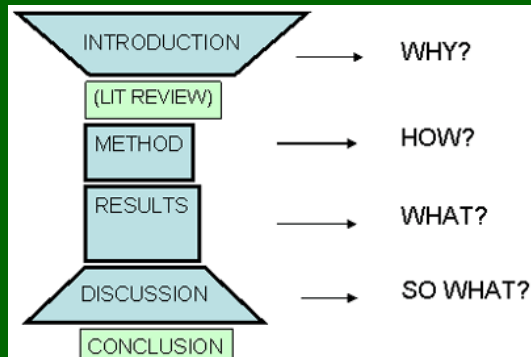
- Title
- Authors
- Abstract
- Introduction
- **M**ethods
- **R**esults
- **D**iscussion
- Acknowledg(e)ments
- References



O'Connor 1991: Writing Successfully in Science. Routledge.

IMRAD vs. pořadí psaní!

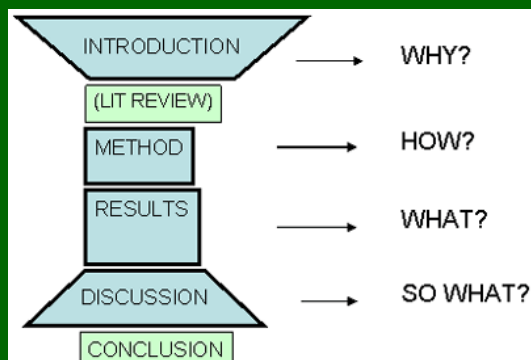
6. Title
 - Authors
5. Abstract
4. Introduction
1. Methods
2. Results
3. Discussion
 - Acknowledg(e)ments
7. References



O'Connor 1991: Writing Successfully in Science. Routledge.

IMRAD vs. pořadí čtení!

1. Title
 - Authors
2. Abstract
5. Introduction
6. Methods
3. Results (Fig...)
4. Discussion
 - Acknowledg(e)ments
7. References



O'Connor 1991: Writing Successfully in Science. Routledge.

Logické pořadí a hierarchie témat

- Introduction

- Chick growth
- Chick survival

◀ příklad ☺

- Methods

- Chick growth
- Chick survival

- Results

- Chick growth
- Chick survival

- Discussion

- ...

O'Connor 1991: Writing Successfully in Science. Routledge.

Efekt(iv)ní název

NEST MONITORING DOES NOT INCREASE NEST PREDATION IN
OPEN-NESTING **SONGBIRDS** INFERENCE FROM CONTINUOUS
NEST-SURVIVAL DATA

KAREL WEIDINGER¹

Begging intensity of nestling **birds** **varies** with sibling
relatedness

JAMES V. BRISKIE^{1†}, CHRISTOPHER T. NAUGLER²
AND SUSAN M. LEECH²

The evolution of nestling discrimination by hosts of
parasitic birds: **why** is rejection so rare?

Tomáš Grim*

**Experimentally Constrained Virulence is Costly for Common
Cuckoo Chicks**

Tomáš Grim*, Jarkko Rutila†, Phillip Cassey‡ & Mark E. Hauber§*

Listování časopisama

Efekt(iv)ní název

Drdová L. & Hampl R. : Potenciální hnízdní predátoři vodních ptáků a metody jejich zjišťování

Kverek P., Storchová R., Reif J. & Nachman M. W. : Výskyt křížence slavíka obecného (*Luscinia megarhynchos*) a slavíka tmavého (*Luscinia luscinia*) na území České republiky potvrzen genetickou analýzou

Strachoňová Z. : Hnízdní biologie pěvců v urbánním prostředí ~~mesta Olomouce~~

Kopij G. : Hnízdní hustota a výběr hnízdního prostředí rorýse obecného (~~Ampelis gularis~~) ve Vratci

Matysiuková B. & Tobółka M. : Co ovlivňuje délku pobytu v teritoriu po vyhánění u čápa bílého (*Ciconia ciconia*)?

Zárybnická M. : Cirkadiánní aktivita sýce rousného (*Aegolius funereus*) v ~~krušných morách~~: efekt rozdílných rodičovských rolí

Hořák D. & Klvaňa P. : Osvojení cizího vejce během parazitační události u poláka chocholačky (*Aythya fuligula*)

Kondělka D. & Petro R. : Prvé ~~známé případy~~ prokázaného hnízdění jeřába popelavého (*Grus grus*) na Moravě a ve Slezsku

Sylvia 2008

Efekt(iv)ní název

- maximální stručnost
- **balast:**
 - „Studie...“
 - „Pozorování...“
 - „Významný vliv...“
 - (lokalita)
 - čas
 - (*modelový taxon*)
- **klíčová slova:**
 - experimentální
 - důkaz
 - první (hnízdění ...)
 - vliv
 - rozdíl
 - nový (vs. replikace!)

O'Connor 1991: Writing Successfully in Science. Routledge.

Abstrakt

- ≠ summary!
- abstrakt = zkrácená verze článku
- mini-úvod, (metodika), výsledky, implikace
- max. 200 (250, 300) slov
- délka: 1. submitace vs. finální verze!
- klíčová slova



Internet: veřejně přístupné abstrakty článků

Abstrakt – klíčová slova + příběh!

Experimental evidence for chick discrimination without recognition in a brood parasite host

Recognition is considered a critical basis for discriminatory behaviours in animals. Theoretically, recognition and discrimination of parasitic chicks are not predicted to evolve in hosts of brood parasitic birds that evict nest-mates. Yet, an earlier study showed that host reed warblers (*Acrocephalus scirpaceus*) of an evicting parasite, the common cuckoo (*Cuculus canorus*), can avoid the costs of prolonged care for unrelated young by deserting the cuckoo chick before it fledges. Desertion was not based on specific recognition of the parasite because hosts accept any chick cross-fostered into their nests. Thus, the mechanism of this adaptive host response remains enigmatic. Here, I show experimentally that the cue triggering this 'discrimination without recognition' behaviour is the duration of parental care. Neither the intensity of brood care nor the presence of a single-chick in the nest could explain desertions. Hosts responded similarly to foreign chicks, whether heterospecific or experimental conspecifics. The proposed mechanism of discrimination strikingly differs from those found in other parasite-host systems because hosts do not need an internal recognition template of the parasite's appearance to effectively discriminate. Thus, host defences against parasitic chicks may be based upon mechanisms qualitatively different from those operating against parasitic eggs. I also demonstrate that this discriminatory mechanism is non-costly in terms of recognition errors. Comparative data strongly suggest that parasites cannot counter-evolve any adaptation to mitigate effects of this host defence. These findings have crucial implications for the process and end-result of host-parasite arms races and our understanding of the cognitive basis of discriminatory mechanisms in general.

Keywords: brood parasitism; coevolution; discrimination; mechanism; recognition

Grim 2007: Proc. R. Soc. Lond. B

Abstrakt – údernost & vzbuzení zájmu

- teorie vs. data
- pravidlo „3“

Calling at a cost: elevated nestling calling attracts predators to active nests

Tonya M. Haff* and Robert D. Magrath

Research School of Biology, Australian National University,
Canberra, Australia

*Author for correspondence (tonya.haff@anu.edu.au).

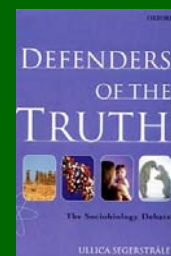
Begging by nestling birds has been used to test evolutionary models of signalling but **theory has outstripped evidence**. Eavesdropping predators potentially impose a cost on begging that ensures signal honesty, **yet little experimental evidence exists** for such a cost at active nests because the use of artificial nests, long playback bouts and absence of parents may have exaggerated costs. We broadcast short periods (1 h) of either nest-

have detected predators. This study **confirms** a present-day cost of nestling begging, **demonstrates** that this cost can be incurred over short periods and **supports** the importance of parent-offspring antipredator strategies in reducing predation risk.

Haff & Magrath 2011: Biol. Lett.

Abstrakt – různá slova = různé úkoly!

- hledání: (((cuckoo) bird) animal) + recogn*
- klíčová slova se opakují!



- funkce slov:
 - informovat (desertion, begging, ...)
 - přilákat (recognition template, ...)
 - manipulovat (striking, crucial, enigmatic,...)

Grim 2009: Web Ecol.

Úvod

- proč je to zajímavé?
- co už víme?
- co nevíme a *chceme* vědět?
- obecné ► konkrétní
- běžné ► vzácné
- starší ► novější
- obecný problém vs. konkrétní taxon



Číst publikovanou literaturu (nejen) z oboru ► „background“

Úvod

- začátek: ne *modelový* druh!
- obecné řeči
- délka ~ téma

1. odstavec – 7 vět,
100 slov (bez citací),
ø = 14 slov/větu

délka vět (slova)

Introduction

Resource use lies at the heart of ecological research. Common and easily accessible resources (prey for predators or hosts for parasites) should be, all other things being equal, used frequently (Jaenike 1990). Still, some apparently accessible and suitable resources remain unexploited. Absence of resource use can be explained by various factors, such as inconspicuousness or unpalatability (Ruxton, Sherratt & Speed 2004). Such avoidance of cryptic or aposematic prey is easily explained. In contrast, avoidance of common, conspicuous, easily accessible and nonaposematic resources presents a real ecological conundrum. Here, we combine comparative and experimental approaches to study a particularly striking example of nonuse of an apparently suitable resource.

Absence of brood parasitism in potential hosts was previously explained mostly by inaccessible nests and unsuitable diet for parasite chicks (Davies 2000). In general, little effort has been made to explain the absence (Peer & Bollinger 1997) or low rates of parasitism (Briskie, Sealy & Hobson

Jaenike, J. (1990) Host specialization in phytophagous insects. *Annual Review of Ecology and Systematics*, **21**, 243–273.

Ruxton, G.D., Sherratt, T.N. & Speed, M.P. (2004) *Avoiding Attack. The Evolutionary Ecology of Crypsis, Warning Signals and Mimicry*. Oxford University Press, Oxford, UK.

Davies, N.B. (2000) *Cuckoos, Cowbirds and Other Cheats*. T & AD Poyser, London, UK.

Grim et al. 2011: J. Anim. Ecol.; Grim 2012: Živa

Úvod

- *poslední* odstavec/ce:
 - jakou hypotézu testujeme?
 - co predikujeme?
 - efekt: směr, kvantita



- „... whether there is *any* difference ...“
- „... we predicted correlation ...“



Číst publikovanou literaturu (nejen) z oboru ► „background“

Metodika

- kdy? (měsíce, roky)
- kde? (koordináty)
- jak?



- **replikovatelnost**

Sutherland et al. 2004: Bird Ecology and Conservation. Oxford.

Metodika

- délka zobáku = ?
- hatching day = day 0 (nebo 1?)
- sepsat než jdete do terénu!



... a mnohé další metodické příručky

Metodika – statistika

- explanatory variables
- response variables
- confounding variables
- *fixed effects*: treatment, ...
- *covariates*: date in season (centred within year), quadratic term (interakce), ...
- *random effects*: population, year (nominal!), nestling id, brood id, (nested effects)

Grafen and Hails 2002: Modern statistics for the life sciences. Oxford UP

Výsledky

• co potřebuje čtenář vědět?

Table 5. Tests of the relationship between nestling age and effect size for four nestling traits. Negative parameter (regression coefficient) means that the correlation between egg size and nestling trait decreases as the young grow older. The body mass model included interaction between predictor (egg size or parental quality) and chick age. All other tests were only based on egg size as a predictor. See text for further details. F = test statistic, NDF = numerator degrees of freedom, DDF = denominator degrees of freedom, S.E. = standard error.

Nestling trait	F	NDF	DDF	N	P	Parameter	S.E.
Survival	0.73	1	75.8	204	0.396	-0.000380	0.000445
Body mass	14.16	1	524	539	<0.001		
Skeletal size	14.41	1	93.3	111	<0.001	-0.00490	0.00129
Wing/feather length	0.14	1	116	120	0.708	0.000752	0.00201

Krist 2011: Biol. Rev.

Výsledky

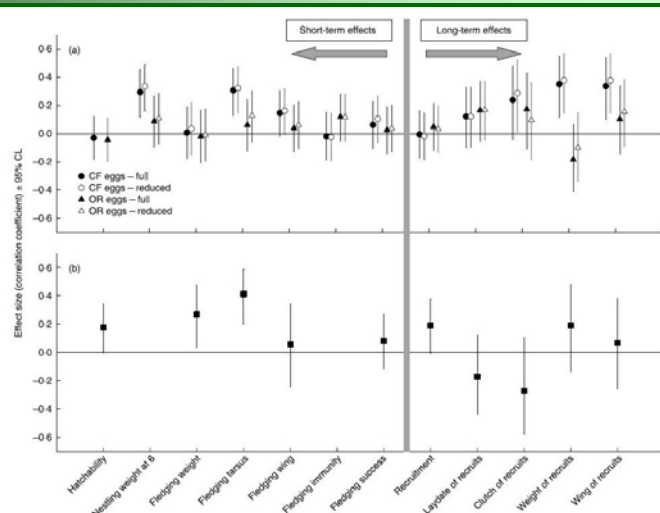


Fig. 1. Effect sizes corresponding to relationships between egg size and offspring traits. The sign of the presented effects corresponds to the sign of statistical covariation between egg size and dependent variables. The exception is the egg-size effect on laying date, where a statistically negative effect means a biologically positive effect. The sample size used for computation of effect size can be inferred from degrees of freedom of the particular test (Table S1). (a) Effects obtained in the cross-fostering experiment. The effect sizes from full and reduced models are compared. The latter models do not include the parental mid-value and feeding frequencies among predictors. Labels 'CF eggs' and 'OR eggs' denote size of the cross-fostered egg (i.e. an egg from which chicks actually hatch) and original egg (i.e. an egg originally laid on the territory) respectively. (b) Effect sizes obtained from the sets of unmanipulated nests.

Krist 2009: JAE

Výsledky

- pořadí významnosti výsledků
- velikost efektu vs. P-hodnoty
- „estimate $\pm$ S.E.“ (S.D.)
- směr rozdílu (trendu)
- vs. grafy a tabulky (redundance)
- přesné P-hodnoty (*ne* N.S., $P > 0.05$)
- %, poměry (lépe než syrová data!)
- *ne*-interpretovat!
- prezentovat i data proti oblíbené hypotéze

Anderson et al. 2001: J. Wildl. Manage.

Diskuze

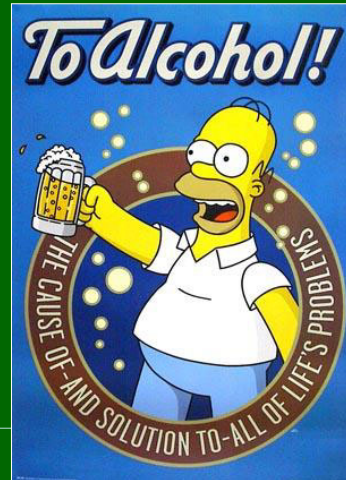
- 1. odst. shrnutí – co nového a zajímavého?
- posl. odst. – implikace, omezení & co dál?
- konkrétní ► obecné (*opak Úvodu!*)
- rozlišit fakta vs. spekulace
- *ne* statistika, nové výsledky apod.
- stat. vs. biol. významnost



Dawkins *kontra* Gould

Diskuze

- neznalost předešlých studií
- kritičnost: zjistili opravdu autoři to, co tvrdí?
- „pře-interpretace“
- náročnost inter. v ekologii
- zpětné vazby apod.



Diskuze

- kauzální vs. korelativní jazyk

A latitudinal diversity gradient in planktonic marine bacteria

Jed A. Fuhrman^{*†}, Joshua A. Steele^{*}, Ian Hewson^{*}, Michael S. Schwalbach^{*}, Mark V. Brown^{*}, Jessica and James H. Brown^{†§}

^{*}Wrigley Institute for Environmental Studies and Department of Biological Sciences, University of Southern California, Los Angeles
[†]Center for Ecology and Evolutionary Biology, University of Oregon, Eugene, OR 97403-5289; and [§]Department of Biology, University of Albuquerque, NM 87131

Contributed by James H. Brown, March 31, 2008 (sent for review January 31, 2008)

For two centuries, biologists have documented a gradient of animal and plant biodiversity from the tropics to the poles but have been unable to agree whether it is controlled primarily by productivity, temperature, or historical factors. Recent reports that find latitudinal diversity gradients to be reduced or absent in some unicellular organisms and attribute this to their high abundance and dispersal capabilities would suggest that bacteria, the smallest and most abundant organisms, should exhibit no latitudinal pattern of diversity. We used amplified ribosomal intergenic spacer analysis (ARISA) whole-assemblage genetic fingerprinting to quantify species richness in 103 near-surface samples of marine bacterial plankton, taken from tropical to polar in both hemispheres. We found a significant latitudinal gradient in richness. The data can help to evaluate hypotheses about the **cause** of the gradient. The **correlations** of richness with latitude and temperature were similarly strong, whereas correlations with parameters relating to productivity (chlorophyll, annual primary productivity, bacterial abundance) and other variables (salinity, and

mechanisms. First, diversity increases with latitude because higher rates of resource supply support larger numbers and more specialized kinds (9–12). This could be termed “the larger is more pieces” hypothesis. Second, diversity increases with environmental temperature because of the processes, including rates of reproduction, mutation, adaptive evolution, and speciation, could be termed “the Red Queen runs the show” hypothesis.

These two mechanisms are by no means mutually exclusive. Their relative contributions can be assessed by comparing diversity and relationships with environmental parameters across different environments and taxa. For example, the role of productivity can be assessed by comparing diversity and richness in environments where productivity is correlated with temperature, and in

Fuhrman et al. 2008: PNAS

Diskuze

nature Vol 436/18 August 2005 doi:10.1038/nature03850

LETTERS

Global hotspots of species richness are not congruent with endemism or threat

C. David L. Orme¹, Richard G. Davies³, Malcolm Burgess¹, Felix Eigenbrod¹, Nicola Pickup¹, Valerie A. Olson⁴, Andrea J. Webster⁵, Tzung-Su Ding⁶, Pamela C. Rasmussen⁷, Robert S. Ridgely⁸, Ali J. Stattersfield⁹, Peter M. Bennett⁴, Tim M. Blackburn⁵, Kevin J. Gaston³ & Ian P. F. Owens^{1,2}

Biodiversity hotspots have a prominent role in conservation biology¹⁻³, but it remains controversial to what extent different types of hotspot are congruent⁴⁻¹⁴. Previous studies were unable to provide a general answer because they used a single biodiversity index, were geographically restricted, compared areas of unequal size or did not quantitatively compare hotspot types^{1-10,12-22}. Here we use a new global database on the breeding distribution of all known extant bird species to test for congruence across three types of hotspot. We demonstrate that hotspots of species richness, threat and endemism do not show the same geographical distribution. Only 2.5% of hotspot areas are common to all three aspects of diversity, with over 80% of hotspots being idiosyncratic. More generally, there is a surprisingly low overall congruence of biodiversity indices, with any one index explaining less than 24% of variation in the other indices. These results suggest that, even

species richness were grouped into nine distinct biogeographic regions (Fig. 2a), whereas threat hotspots were aggregated into ten regions (Fig. 2b), and endemism hotspots were aggregated in twenty biogeographic regions (Fig. 2c).



Orme et al. 2005: Nature

Poděkování

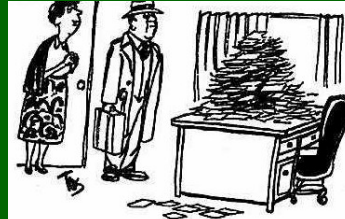
- vs. autorství
- **ano**: pomoc technická, *jen* sběr dat
- **ne**: rutinní laboratorní, úřednická práce
- kdo komentoval rukopis
- kdo výzkum financoval (čísla grantů)
- kdo výzkum povolil – etika, licence
- díky (anonymním) recenzentům!

<http://www.icmje.org/>

Literatura

- zdroje zastaralé / ne přesně k tématu
- necitovat: diplomky, abstrakty, ...
- přehlédnutí významných studií

- chybné citace – formát
➤ necitovat z druhé ruky!



A few reprints came in during your lunch break

- chybné citace – obsah (25% v ekologii!!!)
➤ necitovat naslepo nebo dle abstraktů!

Todd et al. 2007: Oikos

Literatura

- 25% citací v ekologii:
"ambiguous", "not support", "empty"



Oikos 116: 1599–1601, 2007

doi: 10.1111/j.2007.0030-1299.15992.x,

Copyright © Oikos 2007, ISSN 0030-1299

Subject Editor: Per Lundberg, Accepted 27 June 2007

Citing practices in ecology: can we believe our own words?

Peter A. Todd, Darren C. J. Yeo, Daiqin Li and Richard J. Ladle

P. A. Todd (dbspat@nus.edu.sg), D. C. J. Yeo and D. Li, Dept of Biological Sciences, Natl Univ. of Singapore, 14 Science Drive 4, SG-117543 Singapore, Singapore. – R. J. Ladle, Oxford Univ. Centre for the Environment, Dyson Perrins Building, South Parks Road, Oxford, OX1 3QY, UK.

Peer-reviewed articles are the foundation of modern ecology. An essential component of most ecological studies is the citation of relevant literature. In this paper, we examine the citation practices of four groups by a majority decision (Table 1). At all

Obrazové přílohy



- graf > tabulka >> text

Table 2. Výsledky vícenásobné logistické regrese s odhady parametrů vysvětlujících proměnných přeprosení (A) a druhý (B) zjednodušený model (R = regresní koeficient, SE = střední chyba průměru). Koeficient determinace $R^2 = 4,6\%$ (A) a $10,8\%$ (B).

Table 2. Results of multiple logistic regression with parameter estimates of explanatory variables for first (A) and second (B) simplified models (R = slope value; SE = standard errors). Coefficient of determination $R^2 = 4.6\%$ (A) and 10.8% (B).

(A) proměnná / variable	R	SE
zástavba / built-up area	-0,22	0,102
(B) proměnná / variable		
savci-předátoři / mammal predators	0,57	0,09
straka obecná (<i>Pica pica</i>)	0,22	0,087

- ptejte se sami (a kolem) sebe:

➤ je příloha *samostatně* srozumitelná?

➤ je příloha nezbytná?

„Less is more.
And when in doubt – delete.“
(Mark E. Hauber)

Matthews & Matthews 2008: Successful scientific writing. Cambridge UP.

Jak nemá vypadat tabulka?



Sp.	Přežilo (n)	Přežilo (%)	Sežráno (n)	Sežráno (%)	Celkem	chi	P
Drozd	1	33.33	2	66.67	3	0,171	0.6788
Kos	2	66.7	1	33.33	3	0,2	NS
Pěnkavy	9	90.00	1	10.00	10	1.13	***
Ost.	...	...	...	...	...	...	***

Tab. 1: Jak přežívala hnízda?

- desetinná místa vs. přesnost měření & biologická smyslnost
- nekonzistentní formátování
- redundance, nejasnosti, opakování informací

Matthews & Matthews 2008: Successful scientific writing. Cambridge UP.



Jak (ne)má vypadat tabulka?



Tabulka 1 Rozdíly v hmotnostech (průměr ± S.E.) mláďat drobných pěvců v různých prostředích. Data pro mláďata ve věku 5 dnů (den líhnutí = den 0). Detaily viz Metodika.

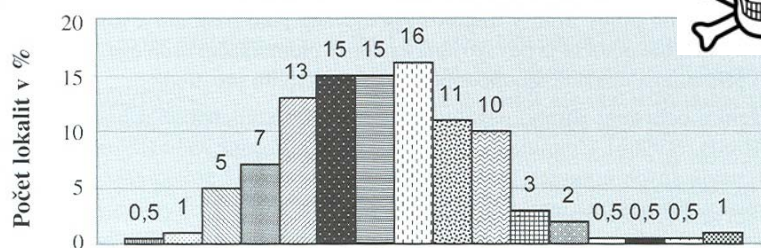
Druh	Hmotnost (g)		t	P
	Město	Vesnice		
Kos černý	23,0 ± 12,5	13,9 ± 3,3	4,39	<0,001
Drozd zpěvný	28,7 ± 30,1	29,1 ± 18,7	0,11	0,36
Pěnice ...	...	...	...	...

Tab. 1 Jak se liší růst ptáků?

Sp.		g	%
Kos	Město	22,98 ± 12,52	6
	Vesnice	13,85 ± 3,3	1
P		<0,001	
t		4,39	
Drozd	Město	28,66 ± 30,11	8
	Vesnice	29,11 ± 18,66	8
P		n.s.	
t		-	
Pěnice	Město	12,658 ± 0,54	5
	Vesnice	10 ± 1,589754	4
t			
P			

Ze smyšleného nepublikova(tel)ného rukopisu

Jak nemá vypadat graf?

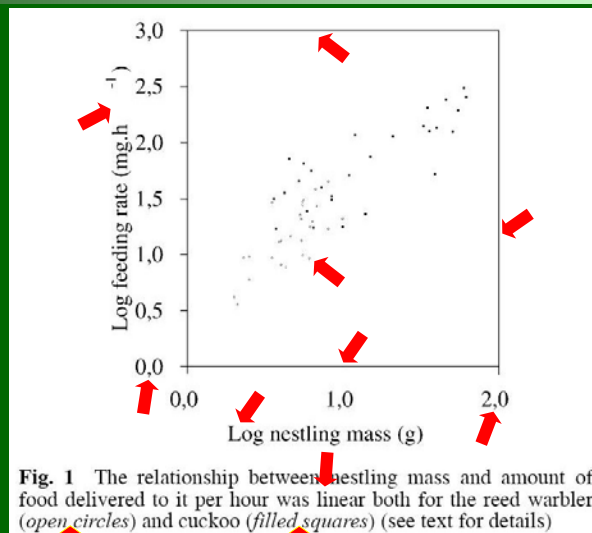


■ 101–150 m n. m. ■ 151–200 m n. m. ■ 201–250 m n. m. ■ 251–300 m n. m.
 ■ 301–350 m n. m. ■ 351–400 m n. m. ■ 401–450 m n. m. ■ 451–500 m n. m.
 ■ 501–550 m n. m. ■ 551–600 m n. m. ■ 601–650 m n. m. ■ 651–700 m n. m.
 ■ 701–750 m n. m. ■ 751–800 m n. m. ■ 801–850 m n. m. ■ 851–900 m n. m.

Graf 1: Nálezky mihule potoční v České republice podle nadmořské výšky (n = 275), HANEL (2004)

Hanel & Lusk 2005: Ryby a mihule České republiky. ČSOP, Vlašim

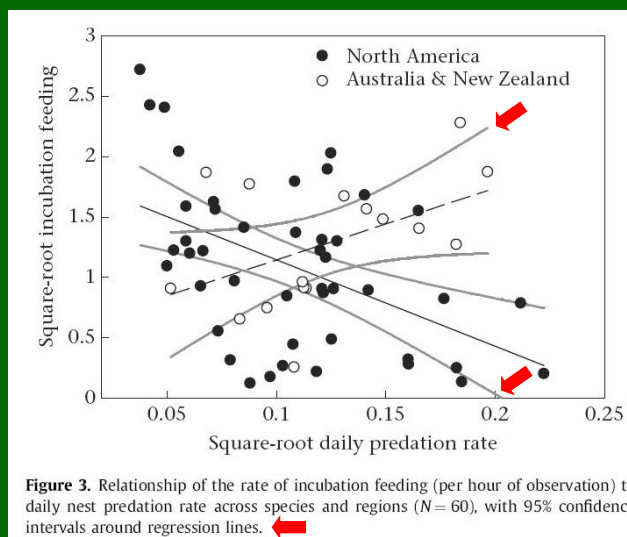
Jak nemá vypadat graf?



Grim & Honza 2001: Behav. Ecol. Sociobiol.



Jak má vypadat graf?



Matysioková et al. 2011: Anim. Behav.



Jak má vypadat graf?

- osy
- popisky
- jednotky
- vysvětlivky

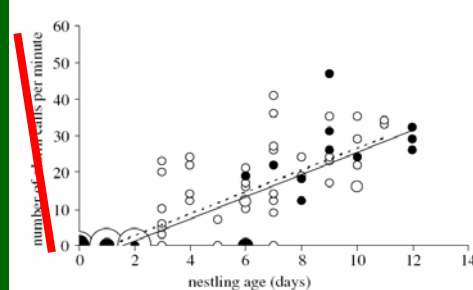


Figure 2. Alarm calling rate (churrs per minute) of one parent reed warbler in response to a human observer near the nest increased with nestling age ($F_{1,107} = 204.36$, $p < 0.0001$), but did not differ between nests containing broods of reed warbler nestlings (open circles, dashed regression line) and those with a cuckoo nestling (solid circles, solid regression line; $F_{1,107} = 0.099$, $p = 0.75$). Day 0 is day of hatching. The smallest symbol refers to one observation and the area of the larger symbols is directly proportional to the sample size (for largest, $n = 15$). Data from 24 nests with a cuckoo nestling and 86 nests with a reed warbler brood, with one observation per nest.

Davies et al. 2006: Proc. R. Soc. Lond. B



Jak má vypadat graf?

- specifické požadavky konkr. časopisů!



Figures should not be boxed (superfluous bounding axes) and tick marks must be on the inside of the axes. Where possible, figures should fit on a single page in the submitted paper. In a final version they will generally be reduced in size by about 50% during production. Wherever possible, they should be sized to fit into a single column width (c. 70mm final size). To make best use of space, you may need to rearrange parts of figures (e.g. so that they appear side by side). Please ensure that symbols, labels, etc. are large enough to allow reduction to a final size of c. 8 point, i.e. capital letters will be about 2 mm tall. Lettering should use a sans serif font (e.g. Helvetica and Arial) with **capitals used for the initial letter of the first word only. Bold lettering should not be used.** Units of axes should appear in parentheses after the axis name. Please note that line figures should be at least 600 dpi and half-tones (photos) should be at least 300 dpi.

Zanette et al. 2010: J. Anim. Ecol.

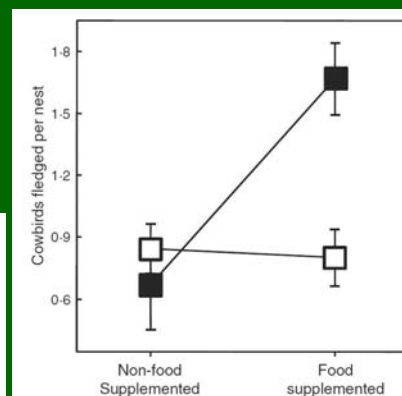


Fig. 2. Effects of food addition and multiple cowbird parasitism on the number of cowbirds fledged per nest fledging young. Food supplemented refers to sparrow territories provided with added food, as compared to non-food supplemented territories. Open symbols = singly parasitized nests (i.e. containing just one cowbird egg), filled symbols = multiply parasitized nests (i.e. containing two or more cowbird eggs). Values are means $\pm$ SE.



Jak má vypadat graf?

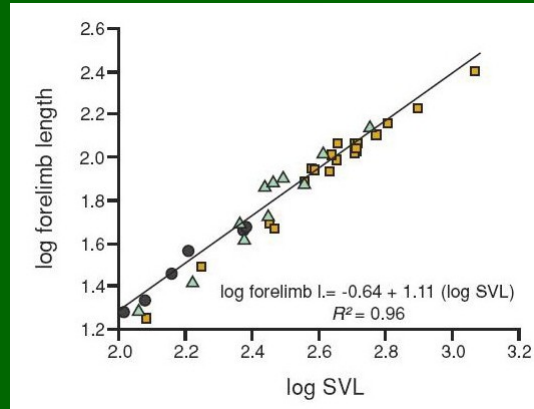


Figure 3. Scaling of morphological traits in *Varanus*. Data are species values for log-transformed morphological traits and SVL, but the scaling relationships depicted are based on phylogenetic reduced major axis regressions of traits on size (see Materials and Methods for details). R^2 is the proportion of variation in species values for a trait that is explained by the regression of that trait on size. Colored symbols denote habitat categories: orange squares are terrestrial, green triangles are arboreal, and gray circles are rock-dwelling species.

Collar et al. 2011: Evolution



Jak má vypadat graf?

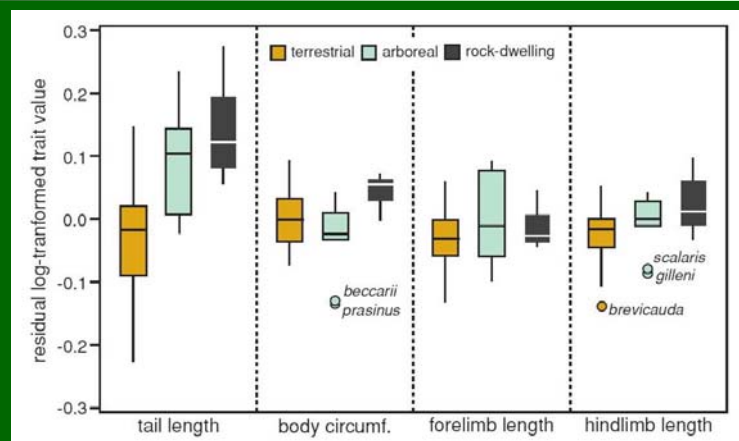


Figure 4. Boxplots for species' size-corrected morphological traits in each of the three habitat categories. Whiskers are standard, extending to the 9th and 91st percentile of the distributions. Labeled points are species values falling outside of this range. Colors correspond to habitat states: orange is terrestrial, green is arboreal, and gray is rock-dwelling.

Collar et al. 2011: Evolution



Jak má vypadat graf?

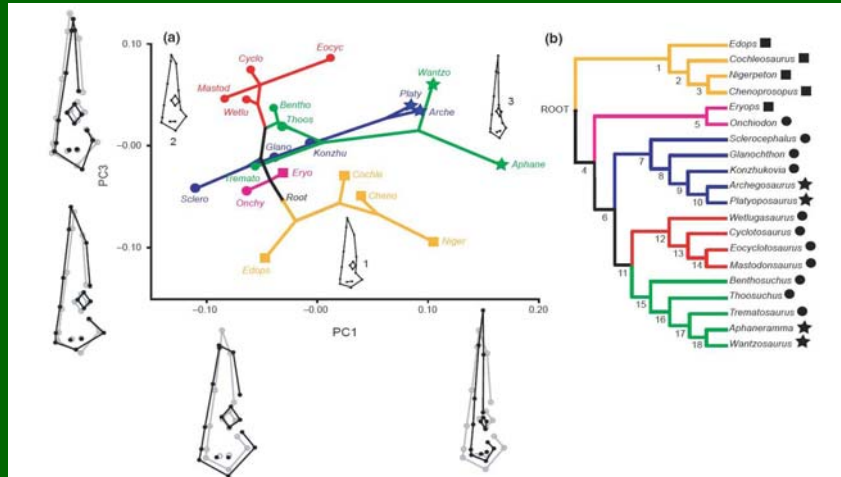


Fig. 3 (a) First and Third PCs of the Principal Component Analysis with the phylogeny plotted. (b) Simplified cladogram for temnospondyls based on Ruta *et al.* (2007). Stars: fully aquatic feeders, circles: amphibious feeders, squares: terrestrial feeders. The mean shape for each lifestyle was obtained from the Procrustes superposition, 1: terrestrial feeders, 2: amphibious feeders, 3: fully aquatic feeders.

Fortuny et al. 2011: J. Evol. Biol.



Jak má vypadat graf?

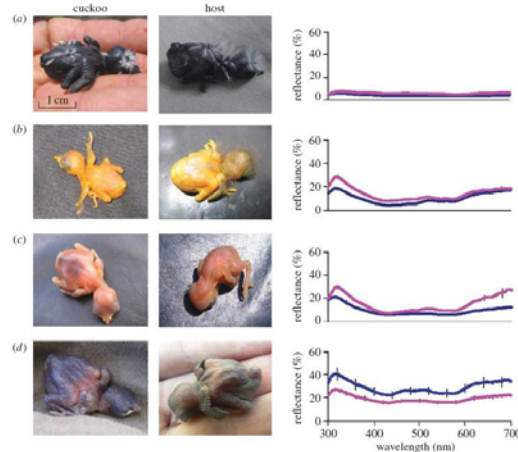
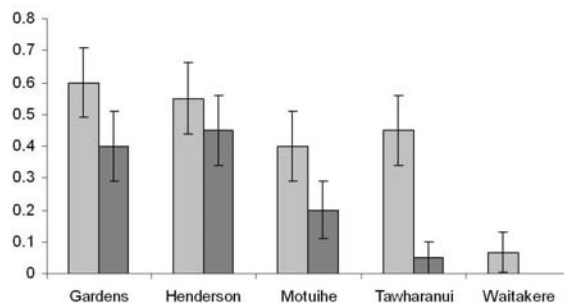


Figure 1. Representative photographs and mean $\pm$ s.e. reflectance of the skin of nestling bronze-cuckoos (blue lines) and their hosts (pink lines). (a) Little bronze-cuckoo ($n = 10$) and large-billed gerygone ($n = 12$). (b) Shining bronze-cuckoo ($n = 8$) and yellow-rumped thornbill ($n = 5$). (c) Horsfield's bronze-cuckoo ($n = 11$; photo illustrates a pale individual) and superb fairy-wren ($n = 17$). (d) We also include a second host of Horsfield's bronze-cuckoo ($n = 4$; photo illustrates a dark individual), the purple-crowned fairy-wren *M. coronatus* ($n = 8$), to illustrate some of the variation in nestling colour among malurid hosts.

Langmore et al. 2011: Proc. R. Soc.

biologicky relevantní
info (ptáci – UV-světlo)

Jak nemá vypadat popiska grafu?



12

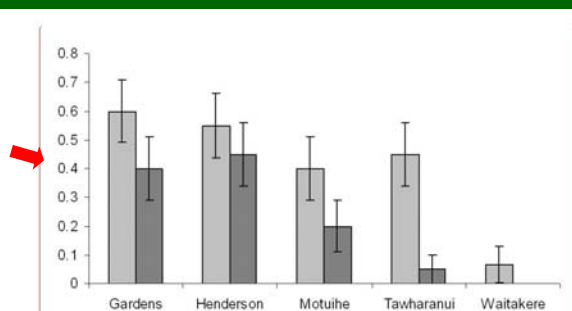
13 Figure One: Nest predation, as a proportion of total nests, subdivided by nest size for the
14 artificial nest dataset. Light bars denote small artificial nests; dark bars denote large
15 artificial nests. Error bars are ± 1 SE under a canonical binomial distribution.

16

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Jak má vypadat popiska grafu?



18

19 Figure 1. Nest predation estimates (mean $\pm$ S.E.) for small (light bars) and large artificial nests

20 (dark bars) across study sites. Estimates are from XX short description of stat. model XX.

[Odstraneno:]

Naformátováno: Písmo: není

Tučné

Odstraneno: , as a proportion of total nests, subdivided by nest size for the artificial nest dataset.

Naformátováno: Písmo: není

Tučné

Odstraneno: L

Naformátováno: Písmo: není

Tučné

Odstraneno:

Naformátováno: Písmo: není

Tučné

Odstraneno: denote

Naformátováno

Odstraneno: small artificial

Naformátováno

Naformátováno: zvýrazněné

Odstraneno: denote large

Naformátováno

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Jak nemá vypadat popiska tabulky?

3

4 Table Two: Tracking tunnel records for each site. A y in a given column denotes that that
5 species' marks were found in at least one tracking tunnel in the site, whereas an n denotes
6 that the species was not recorded in any of the tunnels left at the site.

	Weta	Mice	Rats	Hedgehogs	Other mammals
Tawharanui	y	y	n	n	n
Henderson	y	y	y	y	y
Gardens	n	y	y	y	y
Motuihe	y	n	n	n	n
Waitakere	y	n	n	n	n

7

8

9 No difference was seen in overall rates of predation between real and artificial
10 nests ($z=1.08$, $p=0.28$), and overall rates of predation were lower in sites with mice

11 only than in sites with all mammals ($z=2.08$, $p=0.0380$). However, analysis

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Jak má vypadat popiska tabulky?

5 the findings is presented in Table Two.

6

7 Table 2. Presence ("y") vs. absence ("n") of predators across study sites. Data from tracking
8 tunnels.

	Weta	Mice	Rats	Hedgehogs	Other mammals
Tawharanui	y	y	n	n	n
Henderson	y	y	y	y	y
Gardens	n	y	y	y	y
Motuihe	y	n	n	n	n
Waitakere	y	n	n	n	n

9

10
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12 nests ($z=1.08$, $p=0.28$), and overall rates of predation were lower in sites with mice
13 only than in sites with all mammals ($z=2.08$, $p=0.0380$). However, analysis
14 comparing rates of predation on real nests and large artificial nests in sites with all

- Odstraněno: Two
- Odstraněno: :
- Naformátováno: Písmo: není
Tučné
- Odstraněno: T
- Naformátováno: Písmo: není
Tučné
- Naformátováno: Písmo: není
Tučné
- Komentář: extremely
redundant text
- Odstraněno: records for each
site. A "y" in a given column
denotes that that species' marks
were found in at least one tracking
tunnel in the site, whereas an "n"
denotes that the species was not
recorded in any of the tunnels left
at the site
- Naformátováno: Písmo: není
Tučné
- Vloženo: "
- Vloženo: "
- Vloženo: "
- Vloženo: "

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Formát & styl

Formát & styl

How to write consistently boring scientific literature



Fig. 1. "Congratulations, you are now capable of writing technical, impersonal and boring papers like myself and the other gentlemen – welcome to Academia". Drawing by Sverre Stein Nielsen.

Sand-Jensen 2007: Oikos

Formát & styl

- věda ≠ beletrie – pište:
 - jasně (vs. „květnatost“)
 - jednoznačně
 - bez odboček
 - gramaticky správně
 - rozlišujte podstatné a ne...
 - stručně (souvětí!)
 - opakování termínů nevadí!
 - ... a pozor na jazyk:



Williams 1995: Style. Toward clarity and grace. Chicago UP.

Bizarní příběh o mlžojedovi

- *Xenoturbella bocki* (1949)
- ploštěnka? sumýš? samostatný kmen?
- molekulára ➡ je to mlž! (ostatně má mlží vajíčka a larvy!)

New light on the enigmatic *Xenoturbella*
(phylum uncertain): ontogeny and phylogeny

Olle Israelsson¹



enteropneust, or a unique representative of a plesiomorphic phylum. I report here the previously unknown embryology of *Xenoturbella* that unequivocally corroborates a bivalve relationship and thus once and for all dismisses the potential new phylum. The simplicity of the adult *Xenoturbella* is due to

- co to ale je onen sekundární méně nápadný signál na elektroforéze?

***Xenoturbella* is a deuterostome that eats molluscs**

Sarah J. Bourlat¹, Claus Nielsen², Anne E. Lockyer³,
D. Timothy J. Littlewood³ & Maximilian J. Telford¹

Israelsson 1999: Proc. R. Soc.; Bourlat et al. 2003: Nature

Celkové poučení

- u každého kroku práce:
- benefits = ?
- costs = ?

- forma: jasná, jednoznačná, stručná
- obsah: zajímavý, nový, inspirující
- kritika: neberte si ji osobně
- celkově: dělejte vše, jak nejlépe dovedete

