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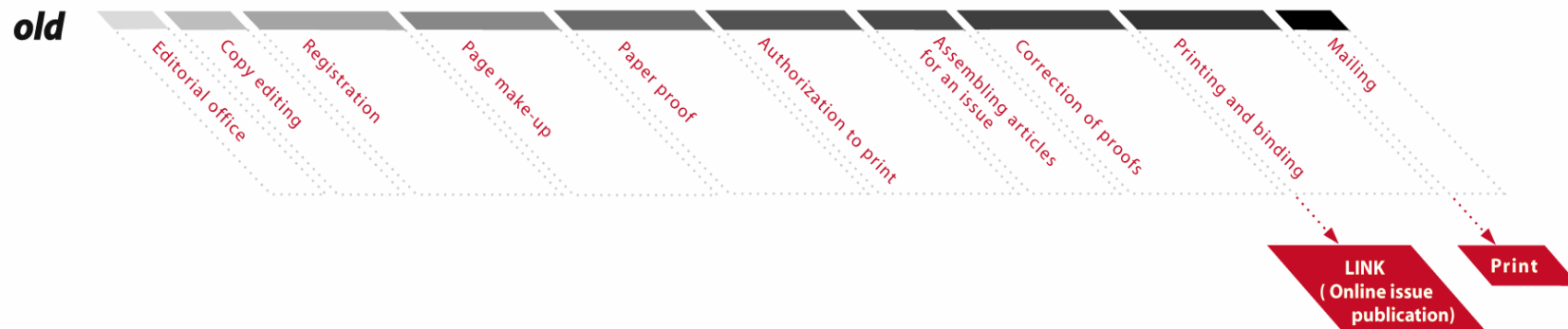
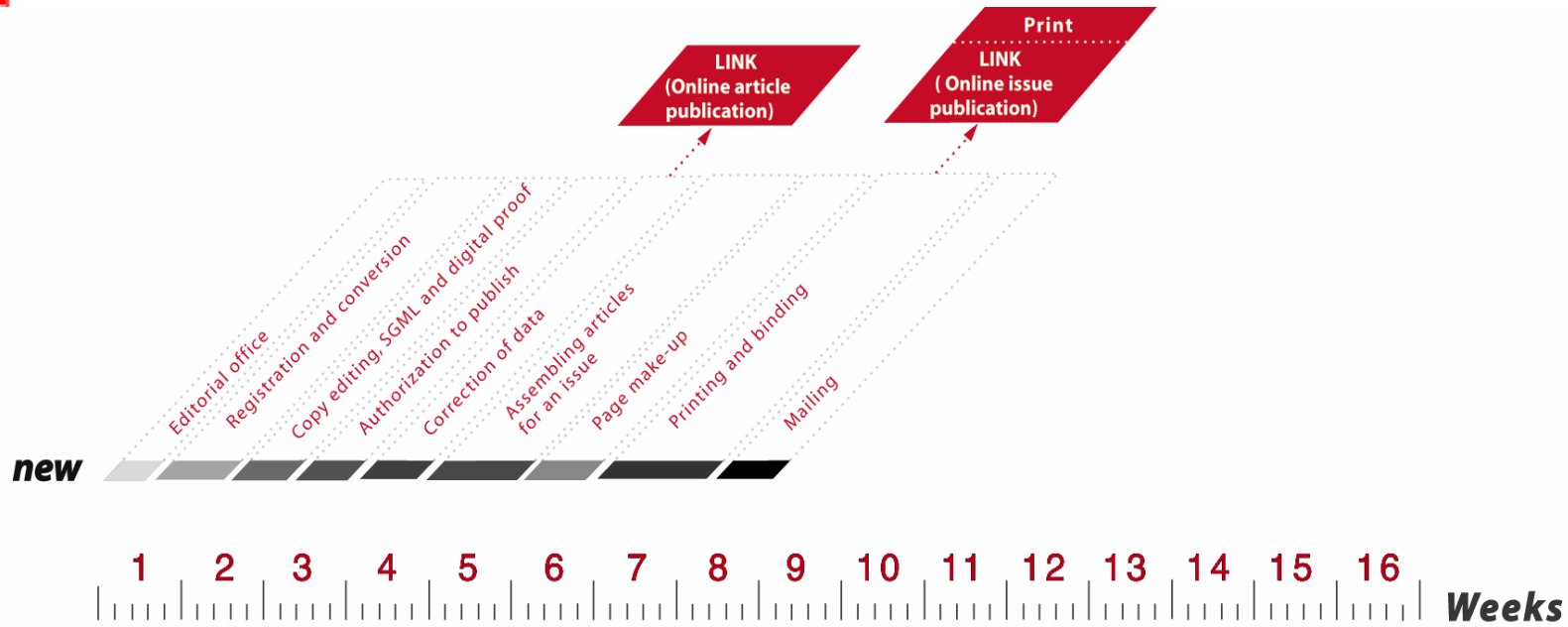
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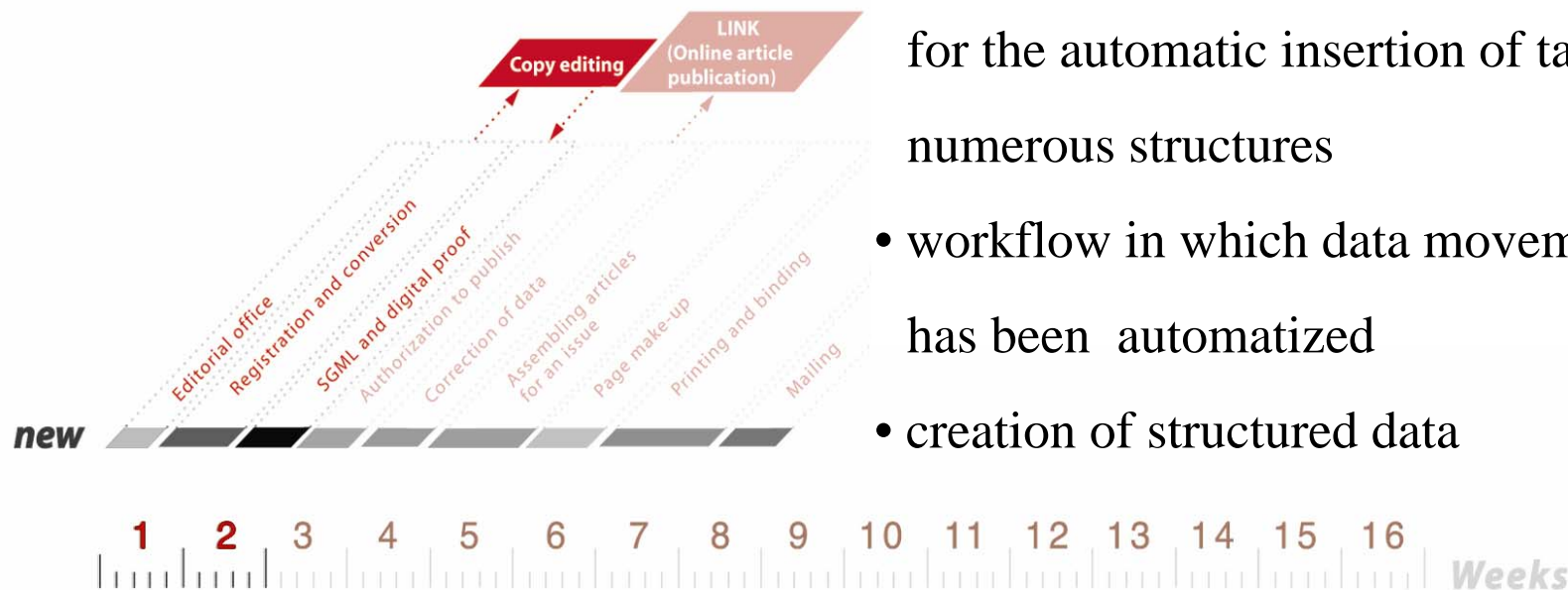
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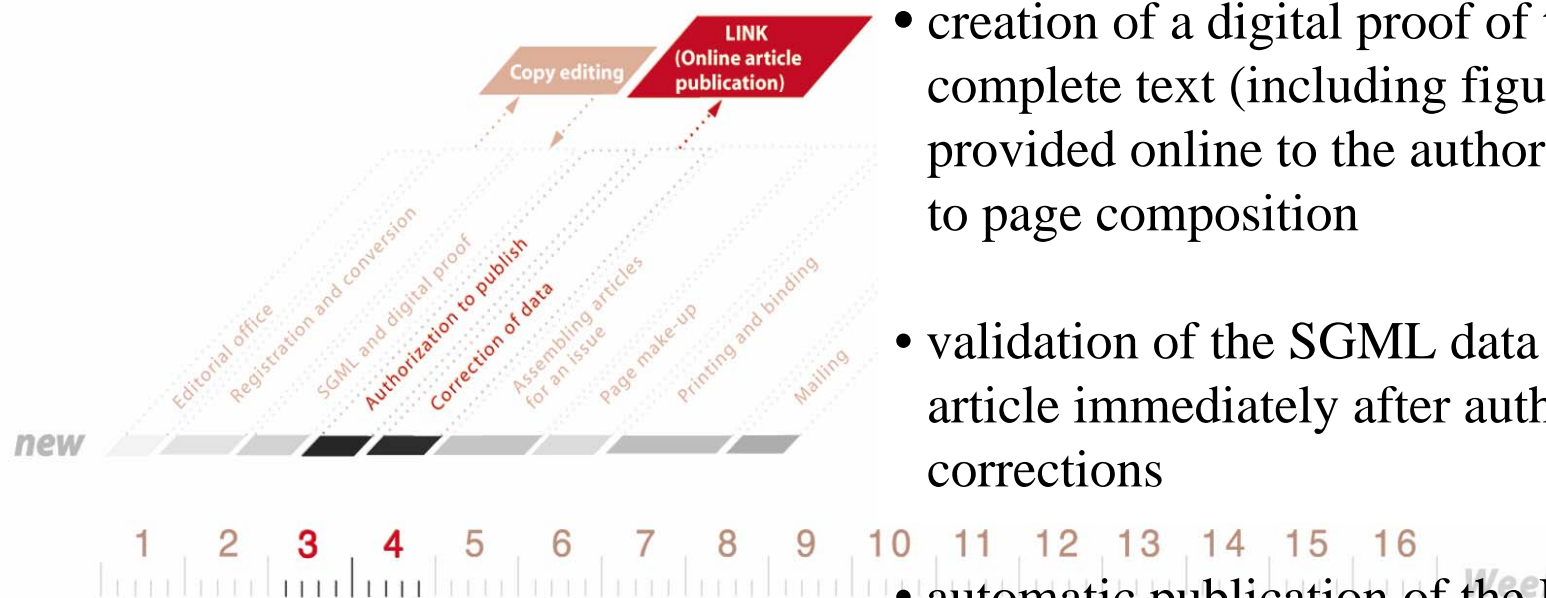


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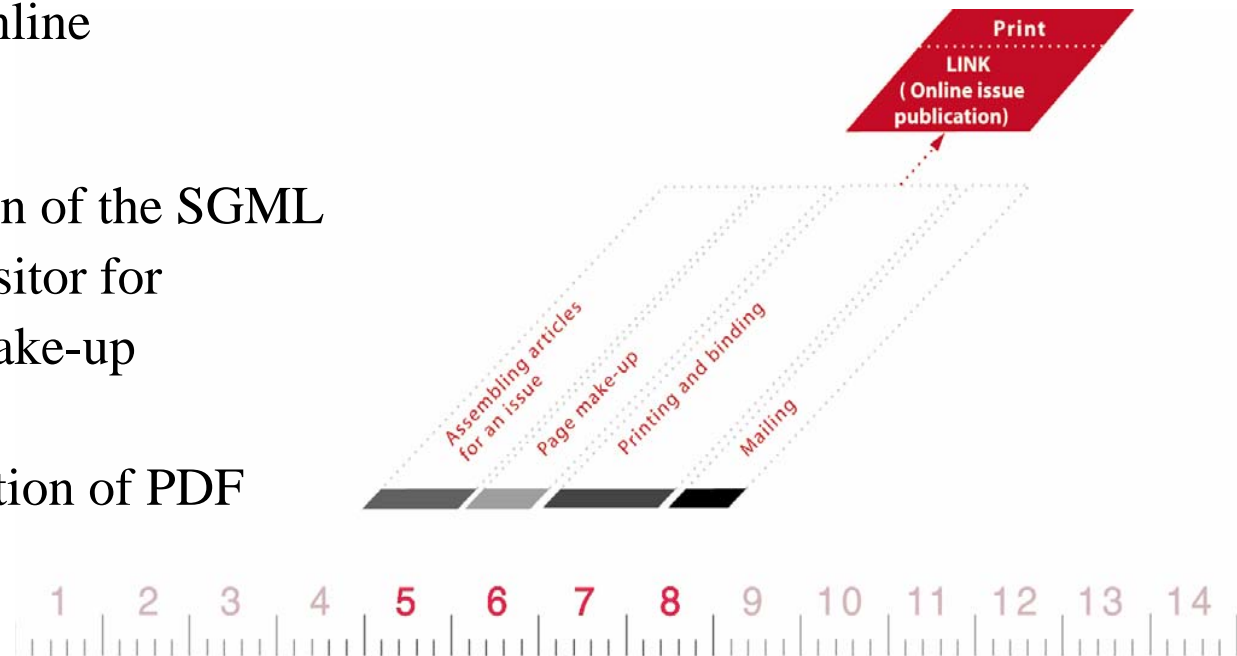


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Position	Residue
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104	104-104
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Numer. Math. (2001)
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Numerische
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Romberg quadrature using the Bulirsch sequence

J.-W. Fischer

Institut für Angewandte Mathematik der TU Braunschweig, Pockelsstrasse 14,
38106 Braunschweig, Germany; e-mail: j-w.fischer@tu-bs.de

Received May 16, 2000 / Published online May 30, 2001 – © Springer-Verlag 2001

Summary. In this note, we prove a conjecture of Bulirsch concerning the definiteness of the Romberg quadrature rules using the Bulirsch sequence. We compare these rules with the classical Romberg scheme and the Gaussian rules.

Mathematics Subject Classification (1991): 65D30



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Original Article

Agonistic behaviour and control of access to hiding places in two intertidal blennies, *Lipophrys pholis* and *Coryphoblennius galerita* (Pisces: Blenniidae)

Cláudia Faria¹,  and Vitor Almada¹

(1) Unidade de Investigação em Eco-Etologia, Instituto Superior de Psicologia Aplicada, R. Jardim do Tabaco 34, 1149-041 Lisbon, Portugal

Communicated by R. Serrão Santos

Abstract. In this study we investigated the relationships between dominance rank and access to shelters in captive groups of *Lipophrys pholis* and



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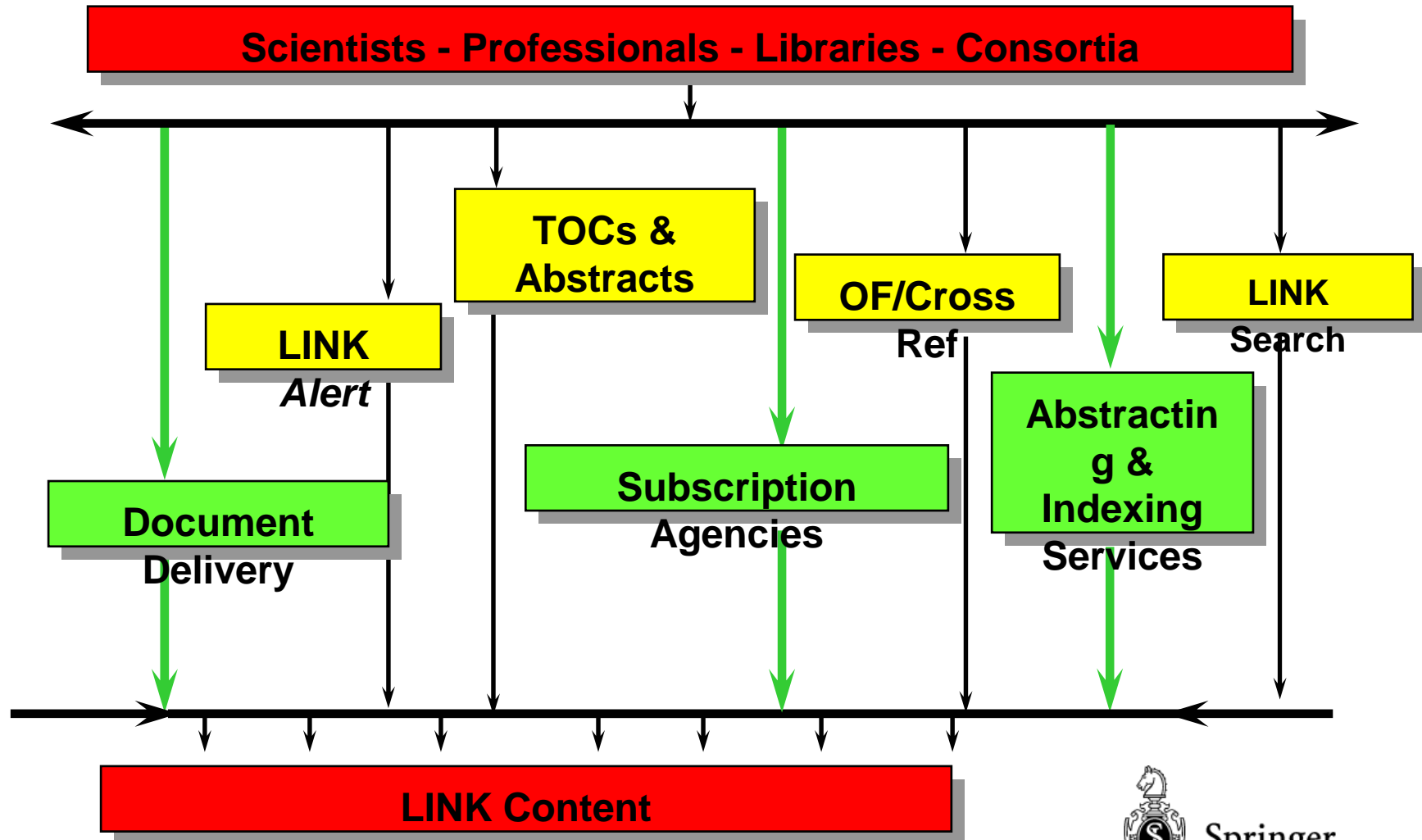
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 **The influence of subchronic administration of the neurosteroid allopregnanolone on sleep in the rat.**

Damianisch K, Rupprecht R, Lancel M.

Max-Planck-Institute of Psychiatry, Munich, Germany

The endogenous neurosteroid allopregnanolone has recently been demonstrated to have somnogenic properties that are very similar to those of other agonistic modulators of GABA(A) receptors, especially of short-acting benzodiazepines. Short-acting benzodiazepines are established to rapidly lose their hypnotic effect upon repeated administration. To investigate the tolerance potential of allopregnanolone, we assessed sleep-wake behavior in rats during subchronic treatment (once daily for five days) with placebo or 15 mg/kg allopregnanolone (n = 8 each). The sleep patterns of the placebo and allopregnanolone group did not differ significantly before and after treatment. Throughout the entire treatment period the allopregnanolone group exhibited shorter non-rapid eye movement sleep (non-REMS) latencies, prolonged REMS latencies, longer non-REMS episodes, more pre-REMS and less low-frequency, but higher spindle activity in the electroencephalogram (EEG) within non-REMS than the placebo group. The lack of tolerance effects suggests that allopregnanolone may be an efficacious modulator of sleep-wake behavior over longer time periods than most drugs targeting the benzodiazepine binding site of the GABA(A) receptor.



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1 General introduction

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1.6 Crystal structures and bulk lattice parameters of materials quoted in the volume

Table 3. Bulk structures and lattice parameters ($a, b, c, \alpha, \beta, \gamma$) of crystals quoted in the volume (value at RT if not otherwise stated) [58H, 58P, 65E, 65W, 69A, 71H, 73H, 82G, 82W].

Crystal	Structure ¹⁾	a [Å]	Comments
Ag	fcc	4.0862	
Al	fcc	4.04964	
Al ₂ O ₃	rh	$a = 5.140, \alpha = 55^\circ 16'$	
AlAs	zinblende	5.6622	
AlFe ₃	fcc (DQ3)	5.792	
AlP	zinblende	5.451	
As	rh (A7)	$a = 4.159; \alpha = 53^\circ 49'$	
Au	fcc	4.0786	
B	tetr	$a = 8.75; c = 5.06$	
BaTiO ₃	trig-rh	$a = 5.772; c = 6.995$	$T < -80^\circ\text{C}$
	orth	$a = 5.682; b = 5.669; c = 3.990$	$-80^\circ\text{C} < T < 0^\circ\text{C}$
	tetr	$a = 3.9945; c = 4.0335$	$0^\circ\text{C} < T < 120^\circ\text{C}$
	cub	4.009	$120^\circ\text{C} < T < 1330^\circ\text{C}$
	hex	$a = 5.74; c = 14$	$T > 1330^\circ\text{C}$
Be	hcp	$a = 2.2854; c = 3.5807$	
BeO	wurtzite	$a = 2.698; c = 4.3772$	
Bi	rh	$a = 4.5459; c = 11.8622$	
Bi ₂ CaSr ₂ Cu ₂ O ₈	tetr	$a = 5.41; c = 30.7$	



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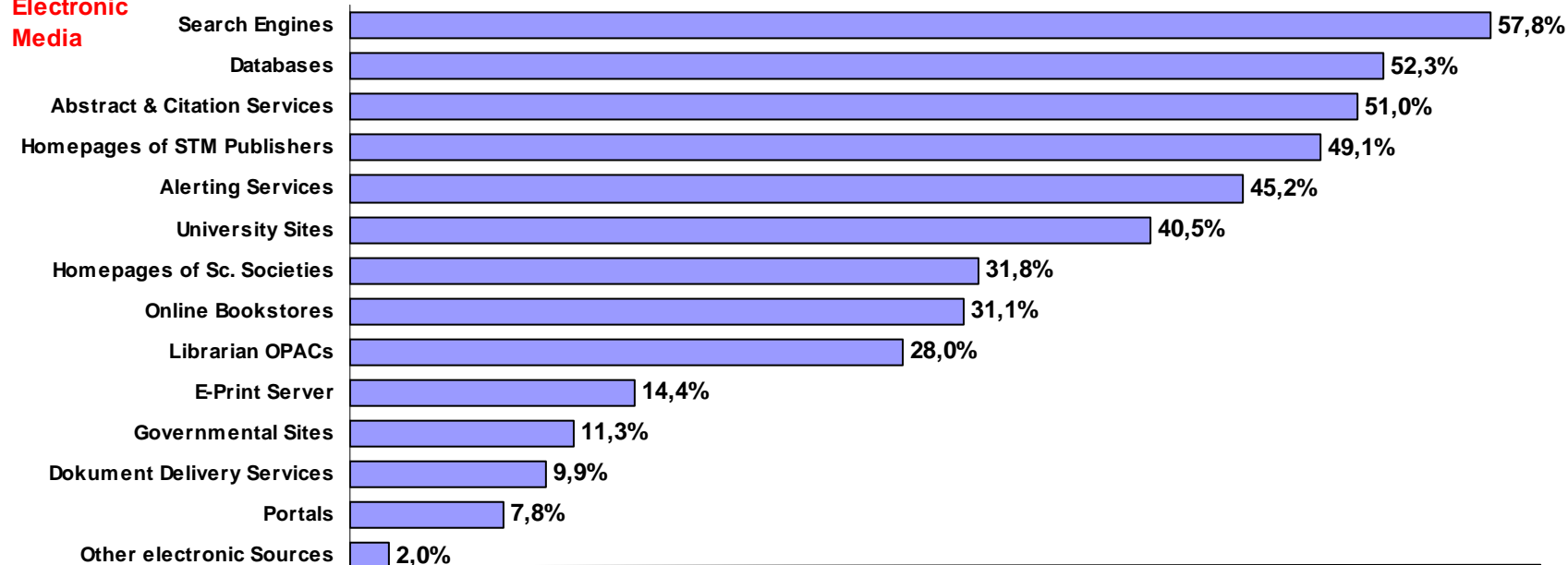


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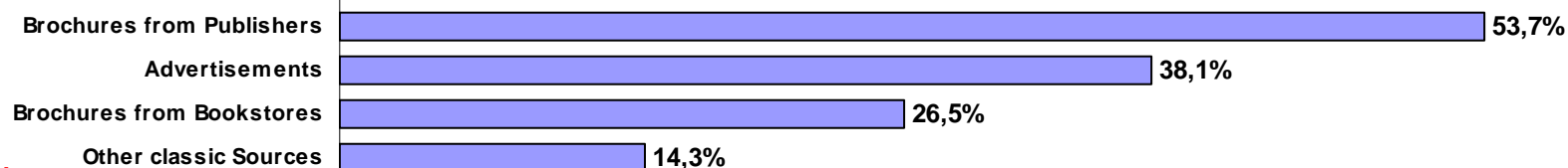
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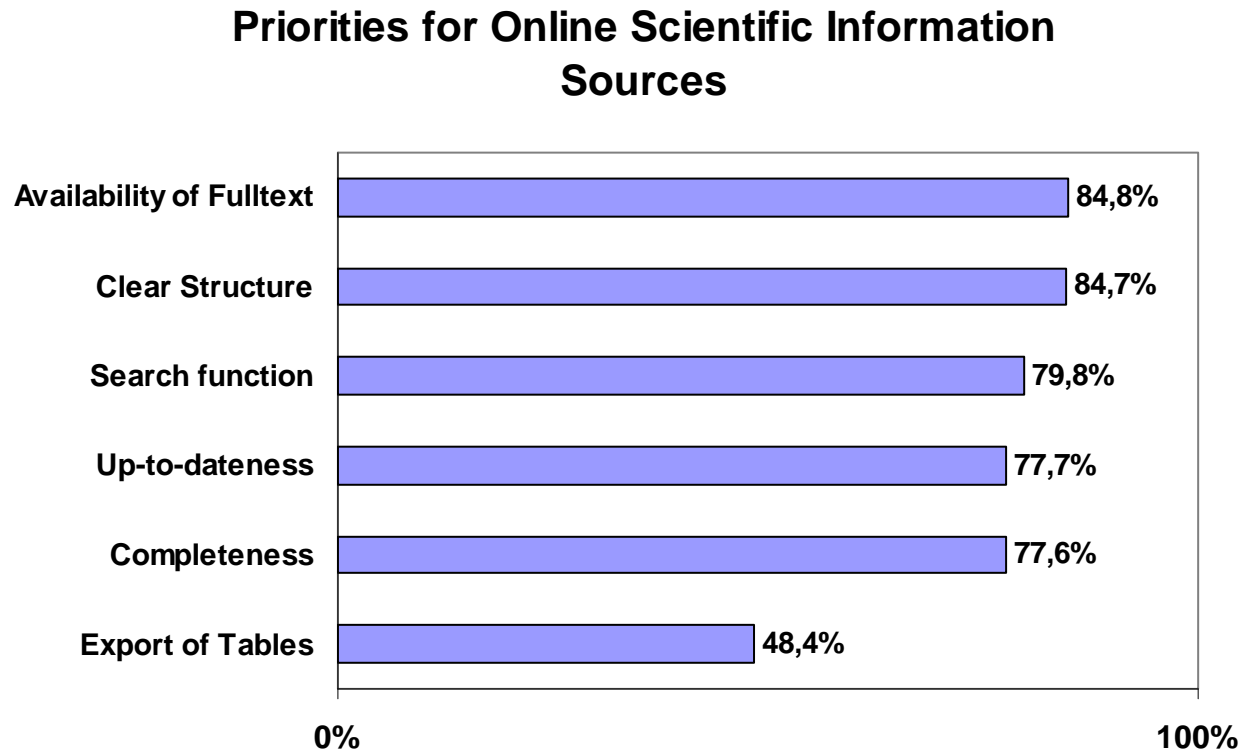


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Base: 812 respondents, multiple responses. 22 respondents did not reply

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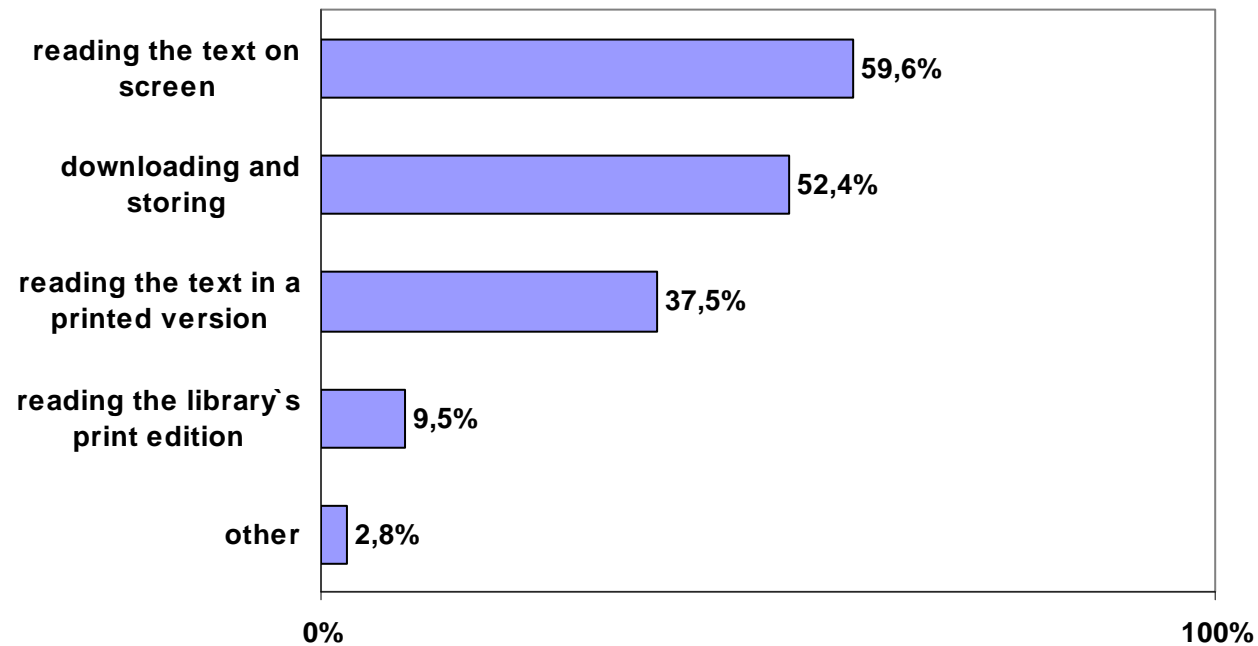
Base: 812 respondents, 71-37 (different for each criteria) respondents did not



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Proceeding with relevant chapters found in the LB Millenium Campaign

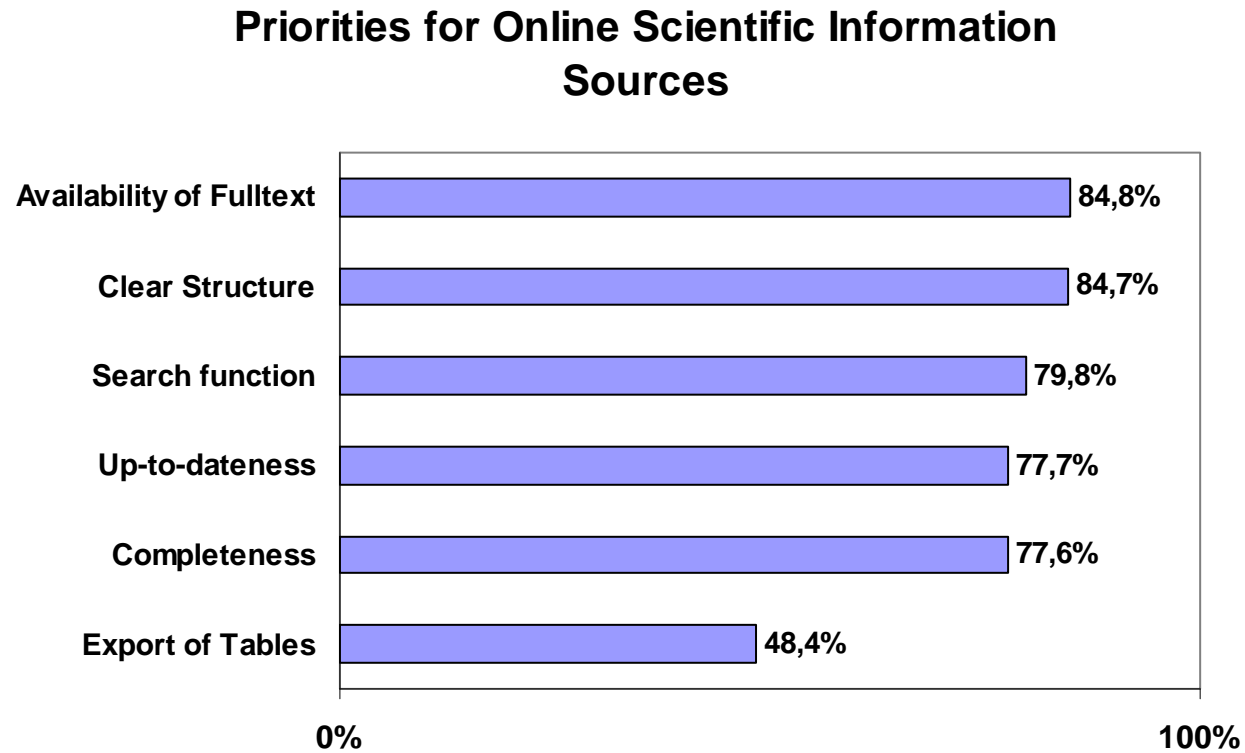


Base: 812 respondents, multiple responses. 52 respondents did not reply



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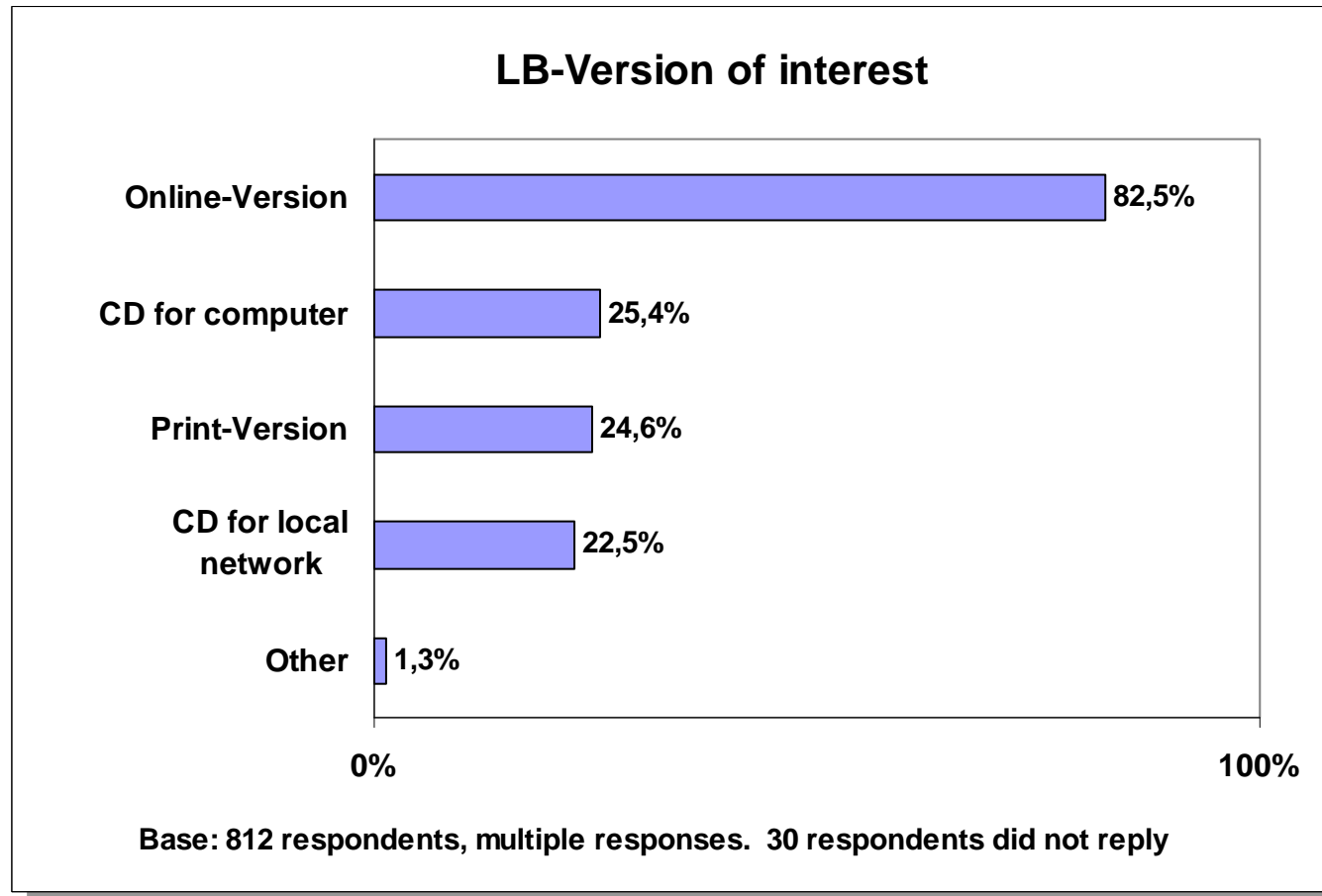


Base: 812 respondents, 71-37 (different for each criteria) respondents did not



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Thank you for your attention !

Questions?



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