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Go to <https://nusearch.nottingham.edu.my> and click on 'Sign in'

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Due to scheduled maintenance, NUsearch may be unavailable weekly **from 11pm Saturday to 2am Sunday**.

News

Where can I get help?

[Need help?](#) is always available from the NUsearch menu, and further help and support can be found on the [Library website](#).

For any enquiries and assistance, please contact libraryservices@nottingham.edu.my

You may also drop-in to our [Chat with your librarian](#) sessions (Monday to Friday, 2pm-5pm) on MS Teams.

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Username only; e.g., kexxx1

Password

Login



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NUsearch Malaysia is the library search interface offered by the Malaysia campus at the University of Nottingham

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Note: Please ensure that you are at the authentication page with the **Malaysia url link (.edu.my)**

NUsearch

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Your name appeared on the top right of the homepage indicate that you have successfully login to NUsearch. Click on "**Databases**".

Welcome to NUsearch Malaysia

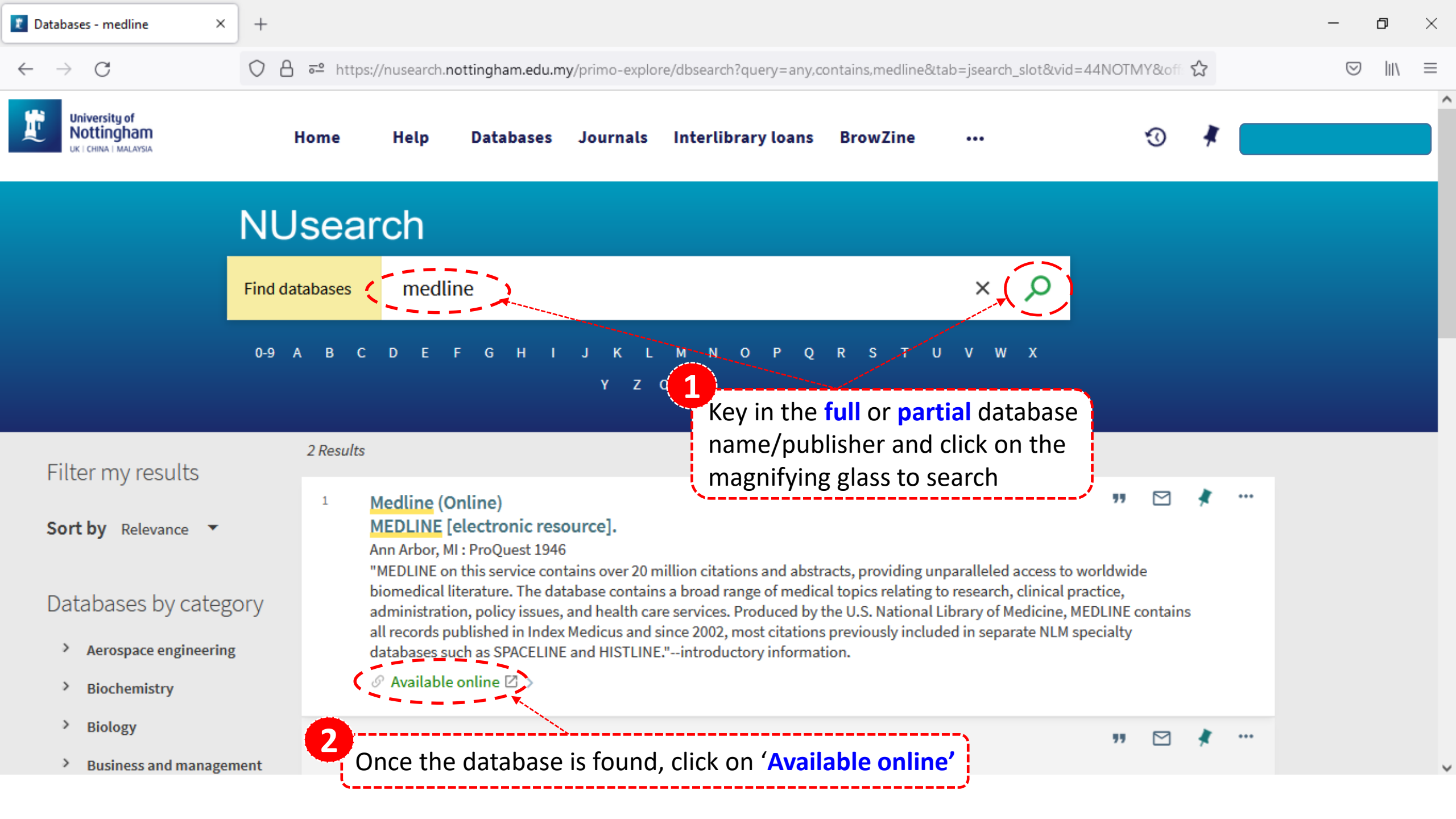
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1

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2 Results

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Sort by Relevance ▾

Databases by category

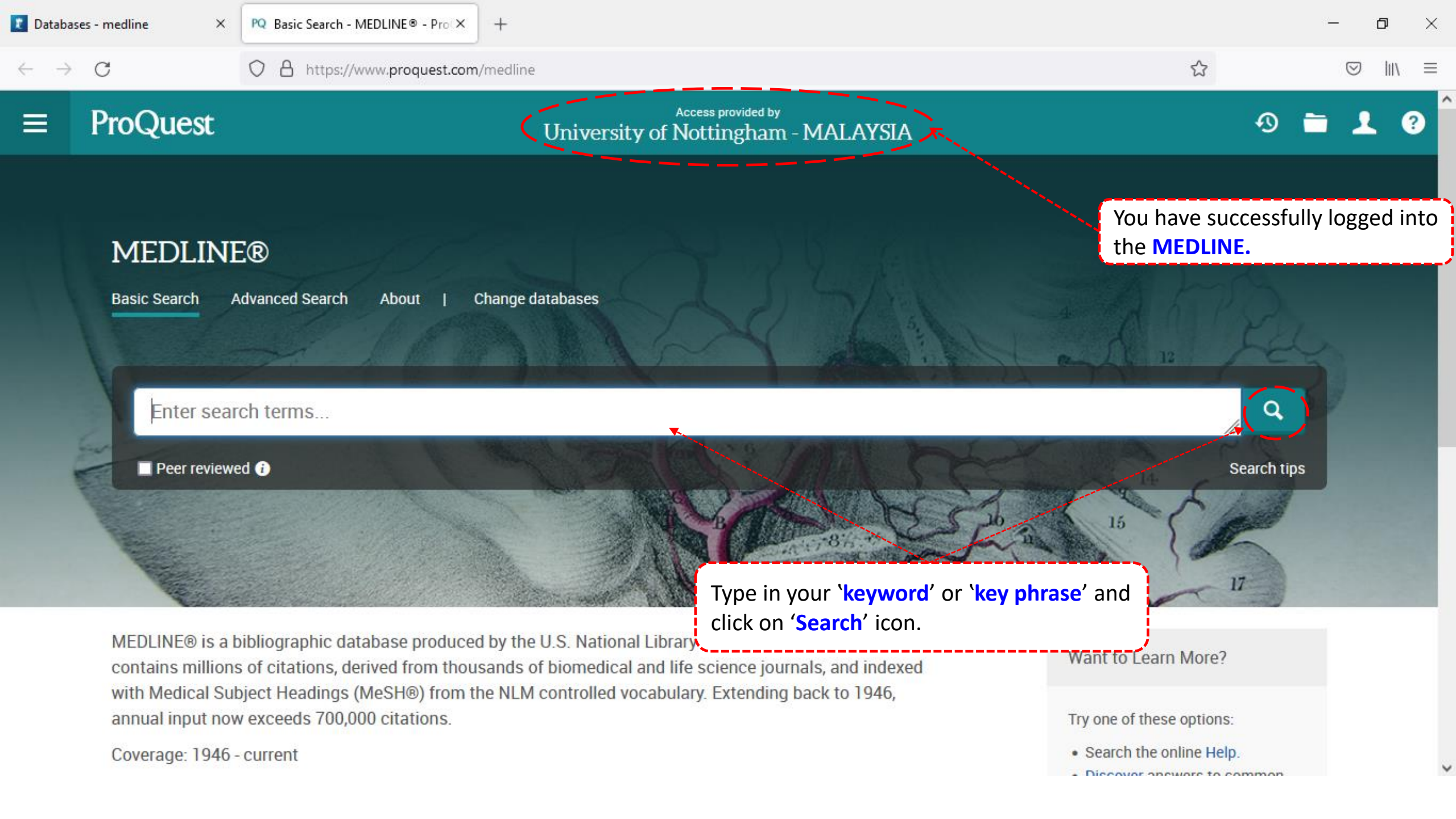
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- > Biochemistry
- > Biology
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1 **Medline (Online)**
MEDLINE [electronic resource].
Ann Arbor, MI : ProQuest 1946
"MEDLINE on this service contains over 20 million citations and abstracts, providing unparalleled access to worldwide biomedical literature. The database contains a broad range of medical topics relating to research, clinical practice, administration, policy issues, and health care services. Produced by the U.S. National Library of Medicine, MEDLINE contains all records published in Index Medicus and since 2002, most citations previously included in separate NLM specialty databases such as SPACELINE and HISTLINE."--introductory information.

[Available online](#)

2

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Coverage: 1946 - current

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iron regulatory proteins

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5,803 results



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Relevance

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Publication date
1965 - 2022 (decades)


Enter a date range Update


You may select filter options to narrow down your search result.

1  Iron regulatory protein 1 outcompetes iron regulatory protein 2 in regulating cellular iron homeostasis in response to nitric oxide. Full Text 

Styś, Agnieszka; Galy, Bruno; Starzyński, Rafal R; Smuda, Ewa; Drapier, Jean-Claude; et al. **The Journal of biological chemistry** Vol. 286, Iss. 26, (July 1, 2011): 22846-22854.

...iron regulatory proteins (IRPs) 1 and 2 posttranscriptionally regulate...
...trans-regulatory function, only mice lacking IRP2 misregulate iron metabolism....
...in iron metabolism, including transferrin receptor 1, the ferritin (Ft) H and...

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2  Internal loop/bulge and hairpin loop of the iron-responsive element of ferritin mRNA contribute to maximal iron regulatory protein 2 binding and translational regulation in the iso-iron-responsive element/iso-iron regulatory protein family. Citation/Abstract

Ke, Y; Sierzputowska-Gracz, H; Gdaniec, Z; Treil, E C; National Library of Medicine. **Biochemistry** Vol. 39, Iss. 20, (May 23, 2000): 6235-6242.

...Iron-responsive elements (IREs), a natural...
...proteins (IRPs) differentially and fold into hairpins [with a hexaloon (HL)...
...iso-IREs create a combinatorial set of RNA/protein interact...

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Internal Loop/Bulge and Hairpin Loop of the Iron-Responsive Element of Ferritin mRNA Contribute to Maximal Iron Regulatory Protein 2 Binding and Translational Regulation in the Iso-iron-responsive Element/Iso-iron Regulatory Protein Family

Yaohuang Ke, Hanna Sierzputowska-Gracz, Zofia Gdaniec, and Elizabeth C. Theil

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SUBJECTS: Iron, Peptides and proteins, Genetics, ▾

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Internal Loop/Bulge and Hairpin Loop of the Iron-Responsive Element mRNA Contribute to Maximal Iron Regulatory Protein 2 Binding and Translational Regulation in the Iso-iron-responsive Element/Iso-iron Regulatory Protein Family

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Received October 25, 1999; Revised Manuscript Received February 16, 2000

ABSTRACT: Iron-responsive elements (IREs), a natural group of mRNA-specific sequences, bind iron regulatory proteins (IRPs) differentially and fold into hairpins [with a hexaloop (HL) CAGUGX] with helical distortions: an internal loop/bulge (IL/B) (UGC/C) or C-bulge. C-bulge iso-IREs bind IRP2 more poorly, as oligomers ($n = 28-30$), and have a weaker signal response in vivo. Two trans-loop GC base pairs occur in the ferritin IRE (IL/B and HL) but only one in C-bulge iso-IREs (HL); metal ions and protons perturb the IL/B [Gdaniec et al. (1998) *Biochemistry* 37, 1505–1512]. IRE function (translation) and physical properties (T_m and accessibility to nucleases) are now compared for IL/B and C-bulge IREs and for HL mutants. Conversion of the IL/B into a C-bulge by a single deletion in the IL/B or by substituting the HL CG base pair with UA both derepressed ferritin synthesis 4-fold in rabbit reticulocyte lysates (IRP1 + IRP2), confirming differences in IRP2 binding observed for the oligomers. Since the engineered C-bulge IRE was more helical near the IL/B [Cu(phen)₂ resistant] and more stable (T_m increased) and the HL mutant was less helical near the IL/B (ribonuclease T1 sensitive) and less stable (T_m decreased), both CG trans-loop base pairs contribute to maximum IRP2 binding and translational regulation. The ¹H NMR spectrum of the Mo-IRE complex revealed, in contrast to the localized IL/B effects of Co(III) hexaammine

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