

Scientific Reports

Publisher: Nature Portfolio (Springer Nature) **ISSN:** 2045-2322 **Launch Year:** 2011 **Open Access:** Yes **Impact Factor (2023):** ~4.6 **Article Processing Charges (APC):** ~\$2,000 USD **Frequency:** Continuous publication

\

Scope and Aim

Scientific Reports is a multidisciplinary, peer-reviewed, open-access journal that aims to rapidly disseminate research across all areas of the natural and clinical sciences. It accepts technically sound studies without requiring a demonstration of novelty or broad interest.

\

Strengths

1. Rapid and Transparent Publishing

* Continuous publication model and streamlined editorial process lead to fast dissemination. * Open-access format promotes visibility and accessibility.

2. Technical Soundness Over Impact

* Articles are accepted if scientifically and methodologically valid, regardless of perceived significance. * This supports reproducibility and mitigates publication bias against negative or confirmatory studies.

3. Multidisciplinary Breadth

* Covers a vast range of disciplines, enabling cross-field citations and broader academic reach.

4. Backed by Nature Portfolio

* Strong editorial infrastructure and indexing in major databases (PubMed, Scopus, Web of Science).

\

Weaknesses

1. Lower Perceived Prestige in Clinical Fields

* Despite the Nature branding, many clinical academics consider it a “second-tier” outlet. * Lacks the clinical rigor and editorial curation of specialist journals.

2. APC vs. Perceived Impact

* Article Processing Charges (\~\\$2,000) are relatively high compared to perceived prestige and citation value. * Value-for-cost ratio may be questioned in resource-limited settings or for early-career researchers.

3. Variable Quality

* Acceptance based on technical soundness leads to a wide range in article impact and relevance. * Requires careful reader discernment, especially for clinical application.

4. Susceptibility to Citation Inflation

* Some authors may use it for strategic citation building, given its rapid publication and open-access reach.

\

Relevance to Neurosurgery and Clinical Medicine

* **Limited:** Most high-impact clinical neurosurgical studies prefer specialized journals (e.g., *JNS*, *Neurosurgery*, *Brain*, *Stroke*). * **Useful for:** Pilot studies, technical validations, interdisciplinary collaborations, negative findings, or computational neuroscience.

\

Summary Judgment

Scientific Reports occupies a useful niche in open-access scientific publishing, prioritizing technical rigor over novelty. While it lacks the prestige of flagship clinical journals, its broad reach and open-access model support transparency and early dissemination. However, its use in neurosurgery and clinical decision-making should be critical and selective.

“Scientifically sound but not necessarily practice-changing.”

From:

<https://neurosurgerywiki.com/wiki/> - Neurosurgery Wiki

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=scientific_reports

Last update: **2025/07/03 06:01**

