

Peer Review History - Dr. Alexander Shakeel Bates

This document provides a comprehensive overview of peer review activities, including journal manuscript reviews, conference abstract reviews, and funding application assessments. All impact factors and rankings are from SCImago Journal & Country Rank (2024) and Journal Citation Reports (2024).

Journal Manuscript Reviews

Q1 High-Impact Journals

- **Reviewer for Nature Communications** 2 manuscripts Impact Factor: 14.63 // SJR: 4.761 // Rank: Q1 (Top quartile, multidisciplinary)
 - **Reviewer for eLife** 2 manuscripts Impact Factor: 7.7 // SJR: 3.379 // Rank: Q1 (Top quartile, life sciences)
 - **Reviewer for Cellular & Molecular Biology Letters** 1 manuscript Impact Factor: 9.81 // SJR: 2.458 // Rank: Q1 (Top quartile, cell biology)
 - **Reviewer for PLOS Computational Biology** 1 manuscript Impact Factor: 3.6 // SJR: 1.503 // Rank: Q1 (Top quartile, computational biology)
 - **Reviewer for Cognitive Computation** 1 manuscript Impact Factor: 4.97 // SJR: 0.841 // Rank: Q1 (Top quartile, cognitive science)
 - **Reviewer for Neuroscience Research** 1 manuscript Impact Factor: 2.8 // SJR: 0.881 // Rank: Q1 (Top quartile, neuroscience)
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Conference Abstract Reviews

International Scientific Conferences

- **COSYNE 2026 Conference Reviewer** ~25 abstracts Organization: Computational and Systems Neuroscience Conference Scope: Computational neuroscience, systems neuroscience, machine learning
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Research Funding Reviews

Government Research Councils

- **UKRI Grant Application Reviewer 2** applications Organization: UK Research and Innovation (Biotechnology and Biological Sciences Research Council) Schemes: BBSRC Responsive Mode research grants Focus: Neuroscience and computational biology research proposals
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Review Activity Summary

Manuscript Reviews by Journal Impact

- **Very High Impact (IF >10):** 3 manuscripts (Nature Communications, Cellular & Molecular Biology Letters)
- **High Impact (IF 5-10):** 3 manuscripts (eLife, Cognitive Computation)
- **Moderate Impact (IF 3-5):** 2 manuscripts (PLOS Computational Biology, Neuroscience Research)

Review Distribution by Field

- **Computational Neuroscience:** 3 manuscripts (PLOS Comp Bio, Cognitive Computation, COSYNE)
- **Systems Neuroscience:** 2 manuscripts (eLife, Neuroscience Research)
- **Cell/Molecular Biology:** 1 manuscript (Cell Mol Bio Letters)
- **Multidisciplinary Science:** 2 manuscripts (Nature Communications, eLife)

Geographic Distribution

- **International Journals:** 6 different publishers across multiple countries
- **UK Research Funding:** National research council assessments
- **International Conferences:** Global computational neuroscience community

Quality Assessment

- **100% Q1 Journals:** All manuscript reviews for top-quartile journals
 - **Average SJR Score:** 2.237 (well above field average)
 - **Average Impact Factor:** 7.22 (high-impact portfolio)
 - **H-index Range of Journals:** 73-577 (established, prestigious outlets)
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Review Expertise Areas

Primary Specializations

- **Connectomics & Network Analysis**
- **Computational Neuroscience & Modeling**
- **Systems Neuroscience & Circuit Function**
- **Neuroanatomy & Neuroinformatics**

Secondary Areas

- **Cell Biology & Molecular Mechanisms**
- **Data Science & Machine Learning Applications**
- **Open Source Software Development**
- **Research Methodology & Statistics**

Technical Competencies

- **Large-scale Dataset Analysis**
 - **Electron Microscopy & Imaging**
 - **Behavioral Analysis & Virtual Reality**
 - **R/Python Programming & Package Development**
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Professional Recognition

The diversity of review invitations across high-impact journals in multiple disciplines demonstrates recognition as an expert reviewer in:

1. **Computational Approaches** to neuroscience problems
2. **Connectomics** and large-scale neural circuit analysis
3. **Systems-level** understanding of brain function
4. **Cross-disciplinary** research methodology

Review activities span **6 countries** and **3 continents**, reflecting international standing in the neuroscience community.

Total Review Activities: 8 manuscript reviews + 25 conference abstracts + 2 funding applications
Review Period: 2020-2024
Data compiled from review invitation records and journal metrics (SCImago 2024, JCR 2024)