

Tuesday late morning session Track D, Tuesday, Sep 23 2025, 11:30-13:00

Location: Seminar 3

Session: Publication and Authorship

Chair: Hjördis Czesnick

OR-16

Upholding Research Integrity in a Changing Landscape: Insights from Springer Nature

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As the research landscape continues to evolve with the advent of new technologies, there is growing interest in how publishers uphold the accuracy and integrity of scholarly work. This proposal aims to showcase Springer Nature's research integrity efforts, highlighting investments in both people and technology, and outlining the proactive measures being implemented.

Maintaining trust in high-quality research involves a series of integrity checks that are integrated throughout the editorial and publishing processes. These checks are supported by artificial intelligence tools, a dedicated research integrity team, and editorial staff. As such, research integrity is embedded throughout the research lifecycle—from safeguarding the publication record and equipping editors to remove problematic content, to providing the broader scientific community with training and resources that promote rigour and good practice.

As technologies for generating fraudulent material advance, Springer Nature remains committed to developing innovative AI solutions. Tools such as Geppetto (which detects AI-generated content), SnappShot (which identifies image manipulation), and other AI systems are being employed to enhance editorial quality checks and streamline the peer review process, including the identification and management of potential conflicts of interest.

This proposal will explore how these AI tools align with Springer Nature's ethical principles for AI use, and examine how researchers themselves perceive the integration of AI into submission screening. What do our findings from a mixed-methods study involving over 700 researchers tell us about their expectations and concerns regarding the use of AI by publishers?

Ultimately, research integrity is a shared responsibility that requires sustained collaboration across countries, institutions, and disciplines. Beyond simply detecting and resolving cases of misconduct, how can publishers contribute to preventing breaches of integrity at national or institutional levels?

Our presentation will address these two questions while first demonstrating how research integrity is fundamentally embedded in the work of the publisher.