

## Appendix

Watchdog Type	Watchdog Function	Examples (including self-perceptions of institutional alignment)
<p><u>Group 1:</u></p> <p><b>Primary investigative watchdogs</b></p>	<p>Initiating scrutiny, uncovering misconduct, generating original claims</p>	<p>Retraction Watch (Hybrid); Plagio SOS (Hybrid); Science Integrity Digest – Elizabeth Bik (Science); ABC Science and Technology (Media); Nature News (Hybrid); Science – Science Insider/Science Magazine’s investigative desk (Hybrid); New York Times Science (Media); Wired – Science (Media); Swiss Info – Science (Media); Deborah Blum – MIT Knight Science Journalism Program (Media); Charles Piller – Science (Media); Paul Thacker (Media); Brian Deer (Media); STAT News Investigations (Media); The Guardian Science Unit (Media); James Heathers – Medical Evidence Project (Science); Nick Brown – Methods and Meta-science (Science); Nick Wise (Science); Data Colada (Science); Jennifer Bryne (Science); India Research Watch (Science); Sholto David – For Better Science (Science); David Saunders (Science); Cyril Labbé (Science); Brandon Brown (Science); Lonni Besançon (Science); Guillaume Cabanac (Science); Anna Abalkina (Science)</p>
<p><u>Group 2:</u></p> <p><b>Infrastructural watchdog platforms</b></p>	<p>Enabling, archiving, and legitimising scrutiny</p>	<p>Pub Peer (Science); Problematic Paper Screener (Science); ImageTwin (Science); Stat Check (Science); GRIM Test tool (Science); Scitility’s Argos (Science)</p>

<p><u>Group 3:</u></p> <p><b>Translational intermediaries</b></p>	<p>Translating watchdog findings into authoritative mainstream discourse</p>	<p>Technology Networks (Hybrid); Scientific American (Media); The Conversation (Hybrid); The Register (Media); Science Friday (Media); Times Higher Education (Hybrid); Asian Scientist – Academia (Media); 360Info (Hybrid)</p>
<p><u>Group 4:</u></p> <p><b>Corrective verification organisations</b></p>	<p>Rapid verification, debunking, and fact-checking</p>	<p>The Planetary Society (Science); SciCheck (Hybrid); Skeptical Inquirer (Hybrid); Science Feedback (Hybrid); Science Watchdog (Hybrid); Center for Science in the Public Interest (CSPI) (Science); Union of Concerned Scientists (Science); Climate Fact Checks (Media); Accountability Journalism Institute (Science); CienciaSumerce (Science)</p>
<p><u>Group 5:</u></p> <p><b>Attention-based watchdogs</b></p>	<p>Public signalling, agenda-setting, and reputational pressure</p>	<p>Astrokatie – Katie Mack (Hybrid); For Better Science – Leonid Schneider (Hybrid); Dorothy Bishop (Science); Andrew Gelman (Science); Carl Bergstrom (Science); John Ioannidis (Science); Ben Goldacre (Science); Biomedial Researcher on TikTok (Science)</p>