Authorship contribution statement

When filling out the template below, please be brief, as precise as possible, and keep close to the terminology of the ‘Definition’-column. Some examples of contribution statements are: “wrote entire original draft”; “contributed to methodology design”; “provided animals for experiments”.

Please note that filling out the template will not resolve any conflict but may facilitate doing so. There may or may not be differing views on which kind of contribution should be included and to which degree in the final decision on the authorship order. Please prepare to discuss this.

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| **Term** | **Definition** | **Contributions of author A** | **Contribution of author B** |
| Conceptualisation | Ideas; formulation or evolution of overarching research goals and aims |  |  |
| Methodology | Development or design of methodology; creation of models |  |  |
| Software | Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components |  |  |
| Validation | Verification, whether as a part of the activity or separate, of the overall replication/ reproducibility of results/experiments and other research outputs |  |  |
| Formal analysis | Application of statistical, mathematical, computational, or other formal techniques to analyze or synthesize study data |  |  |
| Investigation | Conducting a research and investigation process, specifically performing the experiments or data/evidence collection |  |  |
| Resources | Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools |  |  |
| Data Curation | Management activities to annotate (produce metadata), scrub data, and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later reuse |  |  |
| Writing - Original Draft | Preparation, creation, and/or presentation of the published work, specifically writing the initial draft (including substantive translation) |  |  |
| Writing - Review & Editing | Preparation, creation, and/or presentation of the published work by those from the original research group, specifically critical review, commentary, or revision – including pre-or postpublication stages |  |  |
| Visualization | Preparation, creation, and/or presentation of the published work, specifically visualization/ data presentation |  |  |
| Supervision | Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team |  |  |
| Project administration | Management and coordination responsibility for the research activity planning and execution |  |  |
| Funding acquisition | Acquisition of the financial support for the project leading to this publication |  |  |