# **CRediT Author Statement (Moto: *CRediT where credit's due*)**

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| **CRediT  (Contributor Roles Taxonomy)** | **A1** | **A2** | **A3** | **A4** | **A5** | **A6** |
| Conceptualization | **Yes** |  |  |  |  |  |
| Data curation |  | **Yes** |  |  |  |  |
| Formal Analysis |  |  |  |  |  |  |
| Funding acquisition |  |  |  |  |  |  |
| Investigation |  |  | **Yes** |  |  |  |
| Methodology | **Yes** |  |  |  |  |  |
| Project administration |  |  |  |  |  |  |
| Resources |  |  |  |  |  |  |
| Software | **Yes** |  |  |  | **Yes** |  |
| Supervision |  |  |  | **Yes** |  |  |
| Validation |  |  |  |  | **Yes** |  |
| Visualization |  |  | **Yes** |  |  |  |
| Writing-original draft |  | **Yes** |  |  |  |  |
| Writing-review & editing |  |  |  |  |  | **Yes** |

**Sample CRediT author statement**

**A1:** Conceptualization, Methodology, Software; **A2**: Data curation, Writing- Original draft; **A3:** Visualization, Investigation; **A4:** Supervision; **A5**: Software, Validation; **A6:** Writing- Reviewing and Editing. All the authors reviewed and approved the final manuscript.

| **Term** | **Definition** |
| --- | --- |
| Conceptualization | Ideas; formulation or evolution of overarching research goals and aims |
| 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 |
| Formal analysis | Application of statistical, mathematical, computational, or other formal techniques to analyze or synthesize study data |
| Funding acquisition | Acquisition of the financial support for the project leading to this publication |
| Investigation | Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection |
| Methodology | Development or design of methodology; creation of models |
| Project administration | Management and coordination responsibility for the research activity planning and execution |
| Resources | Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools |
| Software | Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components |
| Supervision | Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team |
| Validation | Verification, whether as a part of the activity or separate, of the overall replication/ reproducibility of results/experiments and other research outputs |
| Visualization | Preparation, creation and/or presentation of the published work, specifically visualization/ data presentation |
| 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 post publication stages |

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