



Author Contributions (CRediT) - Guidance Table

Rol (CRediT)	Descripción y tareas de ejemplo (guía para autores)
Conceptualization	Formulation of research ideas and goals. E.g., identifying research problems, defining objectives, developing hypotheses, and establishing the overall study framework.
Data Curation	Management and preparation of data for use and reuse. E.g., data cleaning, annotation, documentation (metadata), integration of datasets from multiple sources, and data preservation and version control.
Formal Analysis	Application of analytical and statistical techniques. E.g., statistical analysis, modeling, simulations, or use of AI/machine learning to interpret data.
Funding Acquisition	Securing financial support for the project. E.g., identifying funding opportunities, writing grant proposals, preparing budgets, and managing awarded funds.
Investigation	Conducting the research process. E.g., performing experiments, fieldwork, data collection, literature review, and documenting research procedures.
Methodology	Development and design of research methods. E.g., defining study design, selecting techniques, developing frameworks, and setting criteria for systematic reviews.
Project Administration	Coordination and management of the research project. E.g., planning, timeline and budget tracking, team coordination, and ensuring compliance with ethical and regulatory standards
Resources	Provision of study materials and resources. E.g., supplying samples, equipment, datasets, infrastructure, or access to necessary tools.
Software	Development and maintenance of software and code. E.g., programming, algorithm design, database development, testing, debugging, and optimization.
Supervision	Oversight and leadership of research activity. E.g., mentoring team members, ensuring research quality, and providing scientific guidance.
Validation	Verification of results and reproducibility. E.g., checking data integrity, validating methods, conducting replication tests, and benchmarking results.
Visualization	Preparation of visual representations of data. E.g., creating figures, charts, tables, or interactive visual content.
Writing – Original Draft	Preparation of the initial manuscript. E.g., writing the first full draft or substantial sections of the article.
Writing – Review & Editing	Critical review and revision of the manuscript. E.g., editing, refining language, responding to reviewers, and improving content and structure.