## Contributor Roles Taxonomy (CRediT)

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 re-use.
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.