**AUTHOR CONTRIBUTION STATEMENT**

The authors must explicitly declare in this letter the contribution of each individual to the research. Please indicate the specific contributions made by each author. For more information on the types of contributions, you can refer to Annex 1 for definitions of contribution types.

As an example, contributions can be described as follows:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Author Name** | **Conceptualization** | **Methodology** | **Software** | **Validation** | **Formal analysis** | **Investigation** | **Resources** | **Data curation** | **Writing - Original draft** | **Writing - Review and editing** | **Visualization** | **Supervision** | **Project administration** | **Funding acquisition** |
| Name Lastnames | x |  |  |  | x |  | x |  | x | x |  |  | x |  |
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All those who contributed to the article but do not fit into the mentioned categories of authors or whose contributions were not sufficient to be credited as authors should be acknowledged in the Acknowledgments section, explicitly stating the type of contribution made.

To attest to this, we hereby sign:

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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*(Name and Surname, Signature)*

**ANNEX1: DEFINITIONS OF CONTRIBUTION TYPES**

**Conceptualization:** 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 tolos.

**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.