**RESEARCH PROPOSAL**

Il presente documento riporta l’elenco delle domande con cui presentare la proposta progettuale. Il documento deve essere compilato, in lingua inglese, in ogni sua parte, entro i limiti di caratteri che sono indicati per ciascuna sezione. Laddove non diversamente specificato, detti limiti di caratteri devono essere intesi spazi inclusi. Il testo eccedente rispetto ai predetti limiti non sarà preso in considerazione dalla Commissione di valutazione.

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|  | **Leading Institution** |  |
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|  | **Legal Entity Appointed Representative for proposal submission (name, surname, role)**  |  |
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|  | **Research Project Title** |  |
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|  | **Project Acronym** |  |
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|  | **Keywords** |  |
|  | **List three to five pertinent keywords** |  |
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|  | **Brief description of the proposal** |  |
|  | **Proposal must be clear, concise, and written in English. We strongly encourage authors to use the following style of structured proposals, with headings:****Background: place the question addressed and highlight the rationale of the study.** **Objective: clearly present the aims of the study, highlighting the concept or idea that you aim to test through research and experiments.** **Proposed project activities: describe how you intend to reach the proposed objectives.****Expected results: summarize the work’s expected findings.** **max. 10.000 characters** |  |
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|  | **Type of proposed activity**  |  |
|  | **Indicate the type of proposed activity from those listed in Section “IDEE PROGETTUALI AMMISSIBILI” of the Call for ideas (check one or more of the boxes below).** |  |
| * individuare le correlazioni esistenti tra rimodellamento osseo e/o atrofia muscolare indotti da disuso e uno o più dei seguenti fattori: dieta, microbioma, sistema endocrino-metabolico, sistema immunitario, sistema cardiovascolare (con particolare attenzione alle alterazioni microvascolari ed endoteliali);
* comprendere la variabilità interindividuale e/o di genere nella risposta fisiologica al bed-rest;
* individuare biomarcatori affidabili delle alterazioni indotte dal bed-rest, quali ad esempio degradazione muscolare e alterazione neuromuscolare.
* valutare, su uno dei volontari partecipanti allo studio, per la prima volta nell’ambito di una campagna di bed-rest, l’elettrostimolazione adattiva quale potenziale contromisura agli effetti indotti dalla microgravità sul sistema muscolo-scheletrico, utilizzando l’apposito dispositivo sensorizzato messo a disposizione dall’ASI.
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|  | **Expected impact/Applications** |  |
|  | **Describe how the presented work will contribute to human space exploration and benefit Earth biomedical science, emphasizing technology transfer potential.****max. 2500 characters** |  |
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|  | **Innovation** |  |
|  | **Highlight the innovation level of the proposal and its positioning in relation to the state-of-the-art.****max. 3000 characters** |  |
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|  | **Study protocol**  |  |
|  | **Please use the following structure and headings:****Study subjects inclusion/exclusion criteria** **Measurements and Data Collection (type, time points, concise protocol description, description of the equipment and materials required, etc.)****Biological sample collection (type, concise protocol description, time points, quantity, description of the equipment and materials required, etc.)****Sample Processing (dedicated research personnel from the proponent, estimated time, description of the equipment and materials required, etc.)** **Sample stowage (temperatures min/max required at the bed-rest facility)****Estimated time required for each study subject for data/sample collection** **Statistical Analysis****Potential risks and/or advantages for study subjects****Data-Sharing request from standard measures (see section “STANDARD MEASURES” of the call for ideas), planned data/sample analysis****max. 10.000 characters** |  |
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|  | **Methods of dissemination** |  |
|  | **Describe methods of dissemination of the results achieved.****max. 1000 characters** |  |
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|  | **Methods of collecting and processing raw data, timing for archiving and public access from the moment of collection** |  |
|  | **max. 1000 characters** |  |
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|  | **Project duration** |  |
|  | **Indicate the proposed duration in months for carrying out the project activity within the limit given in Section “8. RISORSE FINANZIARIE E DURATA DEL PROGETTO” of the Call for Ideas.****Also provide an outline of the timeline (GANTT chart at task level) for carrying out each of the key phases of the proposed project.** |  |
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|  | **Project team and implementation** |  |
|  | **Describe the project team (and each partner, if applicable), specifying roles and personnel contributing to the activities, their skills and responsibilities within the project.** **If applicable, indicate the need for outsourcing of external services, specifying the rationale and planned activities.****Present the management structure and procedures for managing the team.****Present the Work Breakdown Structure (WBS) and Work Packages (WPs) and describe the tasks for each WP** **Present any available asset useful for carrying out the proposed activities** **max. 7000 characters** |  |
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|  | **Experience** |  |
|  | **Describe any previous initiatives, projects, or efforts that have been undertaken in the past by the team, which are related to the current objectives of the project.****max. 2000 characters** |  |
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|  | **Indicative budget**  |  |
|  | **Referring to Section “RISORSE FINANZIARIE E DURATA DEL PROGETTO” of the Call for ideas, briefly describe the project budget by diving direct costs in macrocategories (Labour cost, Travels, External Services, Other costs). For each cost, indicate the amount financed by ASI and the type and amount of in-kind contribution from the proponent (and partners, if applicable). Quantify the percentage of costs for External Services as related to the budget financed by ASI (if applicable).****max. 4000 characters** |  |
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***Ai sensi dell'articolo 76 del D.P.R. 445/2000, consapevole della responsabilità penale cui può andare incontro in caso di dichiarazione mendace o contenente dati non rispondenti a verità, la presente dichiarazione è sottoscritta in***

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***Firma del legale rappresentante o soggetto legittimato ad impegnare l’Università/Ente risultante dalla documentazione richiesta per la call for ideas o da specifica procura da allegare alla dichiarazione***

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 ***(\*) Si allega fotocopia del documento di riconoscimento del dichiarante in corso di validità – Se procuratore si allega anche la fotocopia della procura speciale.***