Response to Reviewer 2 Comments

Point 1: One remark regards the Abstract: please correct leading countries, EU is European Union not a single Country, while United States can be considered a Country (made of different States).

Response 1: According to your comment, we modified the abstract as follows.

Before

Infectious diseases have been continuously and increasingly threatening human health and welfare due to a variety of factors such as globalization, environmental, demographic changes, and emerging pathogens. In order to establish an interdisciplinary approach for coordinating R&D via funding, it is prerequisite to recognize the state quo of research trend in the field. In this paper, we apply machine learning methodologies and network analysis to understand how the EU and US have invested their funding to address the infectious diseases research with interdisciplinary approach. The purpose of this paper is to use public R & D project data as data and to grasp the research trends of epidemic diseases among the two leading countries (the US and EU) through scientometric analysis.

After

Infectious diseases have been continuously and increasingly threatening human health and welfare due to a variety of factors such as globalisation, environmental, demographic changes, and emerging pathogens. In order to establish an interdisciplinary approach for coordinating R&D via funding, it is imperative to discover research trends in the field. In this paper, we apply machine learning methodologies and network analysis to understand how the European Union (EU) and the United States (US) have invested their funding in infectious diseases research utilising an interdisciplinary approach. The purpose of this paper is to use public R&D project data as data and to grasp the research trends of epidemic diseases in the US and EU through scientometric analysis.
Point 2: Table 1 should be changed into Figure.

Response 2: According to your comment, we modified the Table 1 into Figure 1 as follows. As a result, the numbering of the remaining figures and tables has been rewritten.

Before

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<tr>
<td>EU</td>
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</table>

After (line 104-106)

Figure 1. The source of global R&D project data.
**Point 3:** In Introduction the authors should mention and mark the importance of studies of use of pharmaceuticals as well as communication strategies for proper information for achieving a healthy ageing. In this regards proper reference should be mentioned. A few lines referred to communication, compliance and differences in conditions between men and women should be added. Some References should be added to better exploit the context. In the following some are listed and should be added to the text:

**Response 3:** Based on your comments, we have briefly added relevant sentences based on your recommended reference.

Added at line 43-47

In particular, such an argument can be identified in many medical pieces of research [13-14]. Also, diverse health-related databases have been used to gain opportunities for a better understanding of health care management across countries that differentiate from their health systems [15], or they may be used find a better direction for approaches to treatment [16-17].


Point 4: The section Material and Methods should be formatted following the guidelines of MDPI. Part of results (Tables and Figures) should be moved in a new section Supplementary Material. English phrasing/grammar/spelling should be checked and improved for better readability.

Response 4: The guidelines for the Material and Methods section of Sustainability are:

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Materials and Methods should be described with sufficient details to allow others to replicate and build on published results. Please note that publication of your manuscript implicates that you must make all materials, data, computer code, and protocols associated with the publication available to readers. Please disclose at the submission stage any restrictions on the availability of materials or information. New methods and protocols should be described in detail while well-established methods can be briefly described and appropriately cited.

Research manuscripts reporting large datasets that are deposited in a publicly available database should specify where the data have been deposited and provide the relevant accession numbers. If the accession numbers have not yet been obtained at the time of submission, please state that they will be provided during review. They must be provided prior to publication.

Interventionary studies involving animals or humans, and other studies require ethical approval must list the authority that provided approval and the corresponding ethical approval code.
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In this paper, we tried to write about the methodology as specific as possible, and we made a few more revisions. If you would like to give more specific details about the part that needs to be corrected or supplemented, it would be helpful to revise the paper.

The tables and figures of the results part contain the core contents of the research, so if we move them to the supplement, it will become difficult to explain the research results sufficiently. Instead, we tried to improve the readability by placing pictures and tables appropriately in the text.

Finally, we conducted the English proofreading and revision of the manuscript by asking experts.