Pubmed web crawler coding challenge

Search keywords from the two list giving below on pubmed together, and then store all the returning papers' title, abstract and PMID (DOI number if it exits). In addition, please change the display settings from 20 to the maximum papers per page to facilitate the crawling efficiency.

Note: Consider the situation when there is no returning results.

Example:

Input list 1: [Akkermansia, Blastocatellaceae, Flavobacteriia]

Input list 2: [leukaemia, T2D, Crohn's disease, ulcerative colitis]

Output:

1. All the searched term pair will generate a file which contains the extracted information

| Bacteroidetes+T2D_information.txt | ① Today at 5:12 PM | 31 KB Plain Text |
|---|--------------------|-----------------------|
| Bacteroidetes+Crohn%E2%80%99s%20disease_information.txt | Today at 5:12 PM | Zero bytes Plain Text |
| Bacteroidetes+leukaemia_information.txt | Today at 5:10 PM | 64 KB Plain Text |
| Akkermansia+ulcerative%20colitis_information.txt | ① Today at 5:06 PM | 16 KB Plain Text |
| Akkermansia+Crohn%E2%80%99s%20disease_information.txt | ① Today at 5:06 PM | 13 KB Plain Text |
| Akkermansia+T2D_information.txt | ① Today at 5:05 PM | 15 KB Plain Text |
| | | |

2. Each file will contains the entire extracted results, feel free to do some further modification.

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Paper Title: A dietary intervention with functional foods reduces metabolic endotoxaemia and attenuates blochemical abnormalities by modifying faecal microbita in people with type 2 diabetes.

Paper Abstract: To study the effects of a functional food-based dietary intervention on faecal microbiota and biochemical parameters in patients with type 2 diabetes (T2D).

Paper PMCD or Doi: 10:1016/j.diabet.2018.09.004

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Paper McGardin in the presentative Gut Microbiota Dysbiosis in Metformin—Treated Type 2 Diabetes Patients Using Genome-Scale Metabolic Modeling.

Paper Abstract: Dysbiosis in the gut microbiome composition may be promoted by therapeutic drugs such as metformin, the world's most prescribed antidiabetic drug. Under metatorial retreatment, disturbances of the intestinal microbes lead to increased abundance of metatorial retreatment of the intestinal microbes lead to increased abundance of paper McCD or Doi: McGardin McGardin
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