

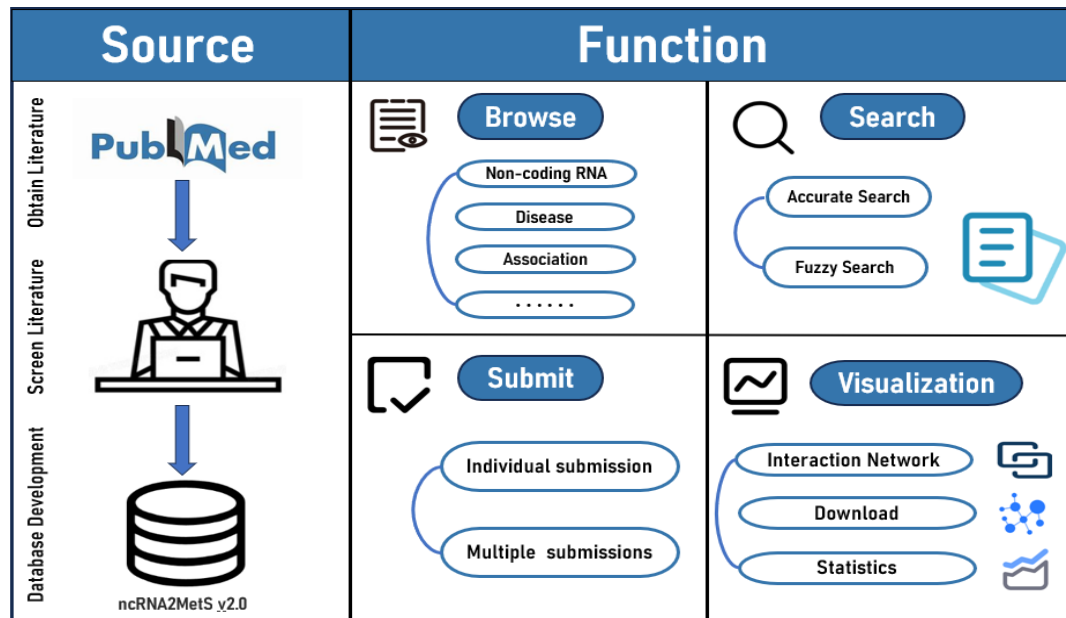
ncRNA2MetS v2.0: a manually curated database for metabolic syndrome- associated ncRNAs

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Problems & Ideas

- Problems with existing related databases:
 - There is no specialized database for storing MetS-associated ncRNAs.
 - The existing data resources lack the latest data.
- Ideas: We built the ncRNA2MetS v2.0 database by collecting the most comprehensive collection of MetS-associated ncRNAs data to date.



We searched PubMed database by keyword using title/abstract search strategy, obtained articles after manual screening, detailed reading extracted MetS-associated ncRNA information, and built a user-friendly website.

Main Contributions

- Contributions:
 - Information on ncRNAs associated with MetS was extracted from all literature up to August 2024.
 - We built a dedicated website that provides users with a simple and friendly interface.

The screenshot displays the ncRNA2MetS v2.0 website interface, which is manually curated for metabolic syndrome-associated ncRNAs. The site features a navigation bar with the following sections: HOME, BROWSE, SEARCH, SUBMIT, STATISTICS, INTERACTION NETWORK, DOWNLOAD, and HELP. The main content area is divided into several functional modules:

- A:** Home page with navigation links.
- B:** Search interface with filters for Disease, ncRNA, and miRNA.
- C:** Search results table showing columns for Gene, Species, Disease, and ncRNA.
- D:** Details page for a specific ncRNA (hsa-miR-101), including its category, species, and associated diseases.
- E:** Submit page for user contributions.
- F:** Statistics page showing the number of total associations, ncRNAs, miRNAs, and circRNAs.
- G:** Interaction network diagram showing relationships between ncRNAs and genes.
- H:** Download page for the database.
- I:** Overview of the database page.

This website consists of eight parts, including the HOME, BROWSE, SEARCH, SUBMIT, STATISTICS, INTERACTION NETWORK, DOWNLOAD, and HELP page. 1505 associations between metabolic syndrome and its five characteristic diseases and three types of ncRNAs were included in the ncRNA2MetS v2.0 database, involving six species.