F1000 AND DATA PUBLISHING

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CURRENT APPROACHES TO PUBLISHING DATA

- Increasing recognition of need to share datasets by funders, institutions and journals
    - Reduce duplication of effort
    - Improve the ability to test and check conclusions being drawn from datasets in articles
    - Gain additional understanding from the assimilation and analysis of multiple datasets
- Supplementary files often
    - Not in reusable formats
    - Not searchable
    - Not associated with enough metadata/protocol information
- Increasingly journals stopping allowing many/any supplemental files e.g. *J Neurosci*, *J Exp Med*

F1000'S SOLUTION

- Faculty of 1000 (http://f1000.com; from the founders of BioMed Central) launching data publishing initiative
- Separate dataset article (dataset, protocol, DOI)
- F1000 doesn't host the data; link to data in existing databases
- Authors rewarded with a citable data article for their time and effort in:
    - Digging out their raw data files
    - Adding adequate protocol information and explanatory information
    - Putting their data files into a reuseable and accessible format
- Thousands of data repositories in biology but many researchers only know a fraction of them
- Growing number of standards available but many more required
- Need to encourage repositories to adhere to standards to improve data quality
- Encourage communities to develop standards where none currently exist
- Cataloguing repositories, standards, and which repositories use which standards is a key first step

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BIODBCORE: BENEFIT TO AUTHORS

- An essential tool for authors submitting data articles to F1000's new publishing program
- Standards guide researchers to provide the necessary information about their datasets to enable their reuse by others
- Provide authors with a full searchable list of relevant repositories through integration with the **BioDBCore** list and the **BioSharing** Catalogue
- Authors can make informed decisions on the best resource in which to deposit their work
- F1000 is evaluating data standards and new database articles
- F1000 is keen to work with **BioDBCore** and **BioSharing** to:
    - Agree most important information to collect about these databases/standards
    - Support collation
    - Encourage the relevant communities to develop further standards

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