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# Introduction

This guide provides a brief introduction to interacting with mapMECFS via the application programming interface (API) using *cURL*. This method of interacting with mapMECFS will be most useful for advanced users who wish to automate their interactions with mapMECFS or maintain reproducible queries. To use these commands, you must install the command-line tool *cURL* and be a registered use of mapMECFS. All API queries are subject to the limitations of your user account role.

*cURL* output displayed in this document has been truncated for space and processed using *jq* for readability. Your output may not match exactly what is shown here due to differences in data deposited to mapMECFS at the time of your query or differences in user access.

For more information on using the CKAN API, documentation can be found at <https://docs.ckan.org/en/2.9/api/>

List of datasets on mapMECFS

As an authorized user, use the 'package\_list' action function to retrieve a list of all datasets that are accessible to the user.

curl "https://www.mapmecfs.org/api/3/action/package\_list" -H "Authorization: API-KEY-HERE"



# List of datasets and their metadata on mapMECFS

As an authorized user, use the 'current\_package\_list\_with\_resources' action function to retrieve a list of all datasets that are accessible to the user, their metadata, and included resources.

curl "https://www.mapmecfs.org/api/3/action/current\_package\_list\_with\_resources" -H "Authorization: API-KEY-HERE"



# Retrieve a list of all tags used on mapMECFS

As an authorized user, use the 'tag\_list' action function to retrieve the list of tags associated with at least one dataset on mapMECFS.

curl "https://www.mapmecfs.org/api/3/action/tag\_list" -H "Authorization: API-KEY-HERE"



# Retrieve metadata for a particular dataset on mapMECFS

As an authorized user, use the 'package\_show' action function to retrieve all of the metadata associated with a particular dataset ID. The ID is the complete title of the dataset.

curl "https://www.mapmecfs.org/api/3/action/package\_show?id=me-cfs-and-ifs-case-control-rna-expression-study-on-monozygotic-twins-gse16059" -H "Authorization: API-KEY-HERE"



# Search a particular tag used on mapMECFS

As an authorized user, use the 'package\_search' action function to conduct a dataset search of the term 'case-control'. The action will return a dictionary with each dataset as an element of the dictionary.

curl "https://www.mapmecfs.org/api/3/action/package\_search?fq=tags:case-control" -H "Authorization: API-KEY-HERE"

