

## A) Format query

- Understand PMC search syntax

## B) Format URL

- Understand how to format URLs with the Entrez E-utilities

## C) Retrieve nested results in XML

- Sequence URL requests
- Handle network errors
- Time the requests
- Chunk the results

## D) Extract flat tabular data and annotation-ready texts

- Parse nested XML
- Account for various XML formats for different journals
- Extract unstructured data with NLP

Topic:  
Music fMRI

Query:  
"Music[Title] AND (fMRI[Abstract] OR functional magnetic resonance imaging[Abstract])"

URL:

[https://eutils.ncbi.nlm.nih.gov/entrez/eutils/esearch.fcgi?db=PMC&term=Music\[Abstract\]+AND+\(fMRI\[Abstract\]+OR+functional+magnetic+resonance+imaging\[Abstract\]\)&usehistory=y](https://eutils.ncbi.nlm.nih.gov/entrez/eutils/esearch.fcgi?db=PMC&term=Music[Abstract]+AND+(fMRI[Abstract]+OR+functional+magnetic+resonance+imaging[Abstract])&usehistory=y)

```
<?xml version='1.0' encoding='UTF-8'?>
<article xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:mml="http://www.w3.org/1998/
<?xml version='1.0' encoding='UTF-8'?>
<article xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:mml="http://www.w3.org/1998/
<?xml version='1.0' encoding='UTF-8'?>
<article xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:mml="http://www.w3.org/1998/
<?xml version='1.0' encoding='UTF-8'?>
<article xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:mml="http://www.w3.org/1998/
  <?properties open_access?>
  <front>
  <journal-meta>
    <journal-id journal-id-type="nlm-ta">Front Hum Neurosci</journal-id>
    <journal-id journal-id-type="iso-abbrev">Front Hum Neurosci</journal-id>
    <journal-id journal-id-type="publisher-id">Front. Hum. Neurosci.</journal-id>
    <journal-title-group>
      <journal-title>Frontiers in Human Neuroscience</journal-title>
    </journal-title-group>
    <issn pub-type="epub">1662-5161</issn>
    <publisher>
      <publisher-name>Frontiers Media S.A.</publisher-name>
    </publisher>
```

	A	B	C
1	pmcid	pmid	doi
2	10287969	37360179	10.3389/fnins.2023.1180434
3	6560017	31161466	10.1007/s11065-019-09410-x
4	3187762	21998649	10.1371/journal.pone.0025322
5	4810075	27065889	10.3389/fpsyg.2016.00039
6	4769528	26921267	10.1186/s12906-016-1068-2
7	6220503	30443345	10.1186/s40035-018-0134-8
8	6993791	32038473	10.3389/fneur.2020.00018
9	7778730	33065515	10.1016/j.cortex.2020.08.012
10	4009443	24808843	10.3389/fnhum.2014.00228
11	8354020	34394855	10.1080/20008198.2021.1929025
12	9816733	36620169	10.21037/qims-22-133
13	6728376	31488865	10.1038/s41598-019-49239-1
14	9304834	35733239	10.1002/brb3.2646
15	9054752	35488032	10.1038/s41598-022-10710-1
16	6326731	30793072	10.1162/netn_a_00050
17	6029562	29984152	10.1016/j.nicl.2018.05.011
18	8376727	33772347	10.1007/s00234-021-02685-z
19	8388127	34089764	10.1016/j.neubiorev.2021.05.028
20	7745554	33402860	10.1177/1179573520976832
21	8559514	34415078	10.1002/hbm.25635
22	7530292	33192395	10.3389/fnhum.2020.565114

Labelbuddy — review-neuro-meta-analyses.lib

File Preferences Help

Annotate Labels & Documents Import & Export

Set label for selected text:

stopped-here

no-access

candidate for replication

n studies found

check for n studies found

n studies included

a) ALE

ABC

d) meta-analytic connectivity

s) SDM

m) MKDA

k) KDA

i) imba

label-based review/MA

o) other ma method

cnf/masas-brainman

pmid: 34060940

# Title

Can Preoperative Mapping with Functional MRI Reduce Morbidity in Brain Tumor Resection? A Systematic Review and Meta-Analysis of 68 Observational Studies.

# Keywords

# Abstract

Background Preoperative functional MRI (fMRI) is one of several techniques developed to localize critical brain structures and brain tumors. However, the usefulness of fMRI for preoperative surgical planning and its potential effect on neurologic outcomes remain unclear. Purpose To assess the overall postoperative morbidity among patients with brain tumors by using preoperative fMRI versus surgery without this tool or with use of standard (nonfunctional) neuronavigation. Materials and Methods A