# 27/10/2023

# Main query

("movie" OR "film watching" OR "film viewing" OR "motion pictures" OR "motion picture" OR "watching a film" OR "viewing a film" OR "film clip" OR "film clips")

AND ("brain imaging" OR "brain activity" OR "neuronal activity" OR "neural activity" OR "envelope")

AND (“MEG” OR "magnetoencephalography" OR "magnetoencephalogram" OR “EEG” OR "electroencephalography" OR "electroencephalogram" OR “fMRI” OR "functional magnetic resonance imaging" OR "functional MRI" OR “MRI” OR "magnetic resonance imaging")

## Movie-related keywords

Movie and motion pictures are often cited by papers. The term “film” was posing numerous problems by referring for example to some new EEG gel. We included exact-phrase searches that contextualize the word “film” in a way relevant for us.

## Activity/imaging related keywords

These terms ensure papers refer to studies with explicit recordings as much as possible. Without them, a lot of results simply stated recording techniques as previous references of the literature in the abstract. “imaging” relates to MRI/fMRI studies while “…-activity” and “envelope” or used terms for EEG/MEG.

## Recording techniques keywords

States the principal recording techniques of interest. The collaterals (i.e. “electroencephalography” for “EEG”) ensure we take into account papers that site either acronym or full name for recording techniques.

## Databases

We ran searches in PubMed and Web of Science databases. The logic operators were used such as stated in the above query.

* PubMed (<https://pubmed.ncbi.nlm.nih.gov/advanced/>): All searches were done with the [Title/Abstract] category placed on each term of the search.
* Web Of Science (<https://www.webofscience.com/wos/alldb/advanced-search>): Searches were made in all editions of all databases available. This includes (at the date of the query search) Web of Science Core Collection, BIOSIS Citation Index, Current Contents Connect, Data Citation Index, Derwent Innovations Index, KCI-Korean Journal Database, MEDLINE ®, SciELO Citation Index and Zoological Record. All words and phrases were searched exactly (i.e. placed in quotation marks).

# Data Treatment

## Removed before screening

**Web of Science**: items with a Document Type that didn’t include the words “article” of “review” were excluded before screening. They were either:

* Procedings paper
* Data sets
* Meeting abstracts
* Meeting
* Data study
* Preprint
* Else (stated as NaN)

**Kept: 269**

**Excluded: 50**

**PubMed**: No records were excluded since

Records removed *before screening*:

Duplicate records removed (n = 171)

Records marked as ineligible by automation tools (n = 0)

Records removed for other reasons (n = 50)

Records identified from\*:

Databases (n = 2)

Registers (n = 0)

**Identification**

Records screened

(n = 270)

Records excluded\*\*

(n = )

Reports sought for retrieval

(n = )

Reports not retrieved

(n = )

**Screening**

Reports assessed for eligibility

(n = )

Reports excluded:

Reason 1 (n = )

Reason 2 (n = )

Reason 3 (n = )

etc.

Studies included in review

(n = )

Reports of included studies

(n = )

**Included**

* Human Connectome Project: A dataset underlying functional connectivity patterns across the brain. A whole portion of it is from Movie-watching.

## Focus

### Spatial Analysis

Looking for recruited regions, some of them are building topographical maps.

### Spatial Synchrony

Studying the synchrony of brain regions.

### Spectral Analysis

Energy band analysis.

### Singular Analysis

How a specific brain region is activated.

### Neural Correlates of Conscious Experience

Looking for shared patterns of activity that are linked to specific Conscious Experiences