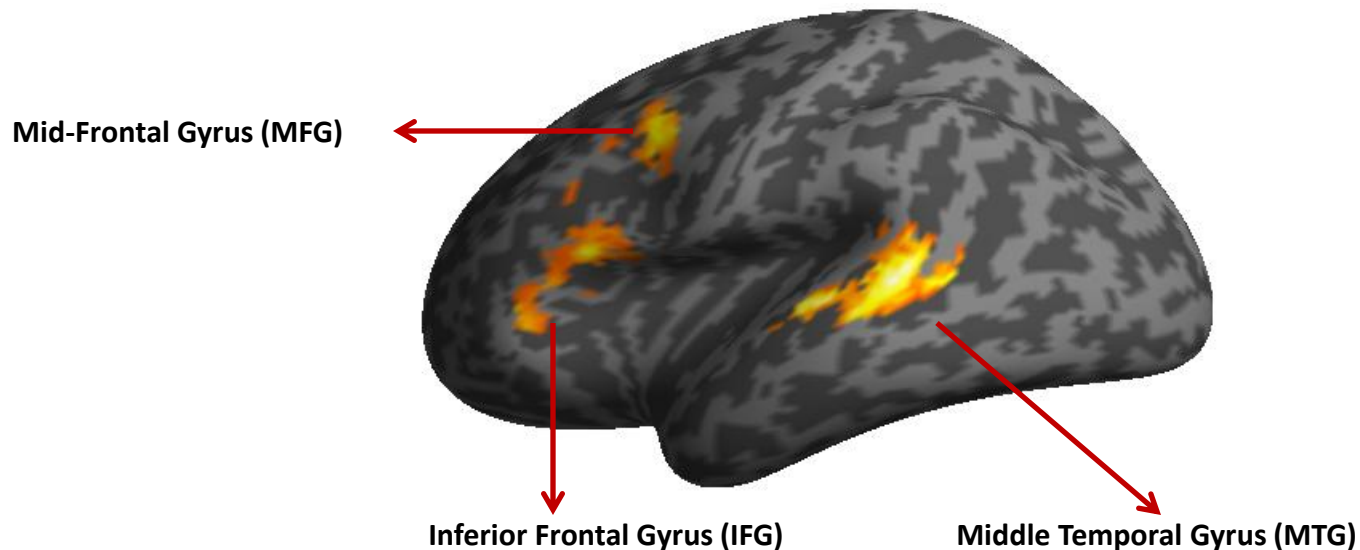


Functional neuroimaging evidence

Verbs > Nouns



Hernández, Fairhall, Lenci, Baroni & Caramazza (in prep)

Verb-related activity ...

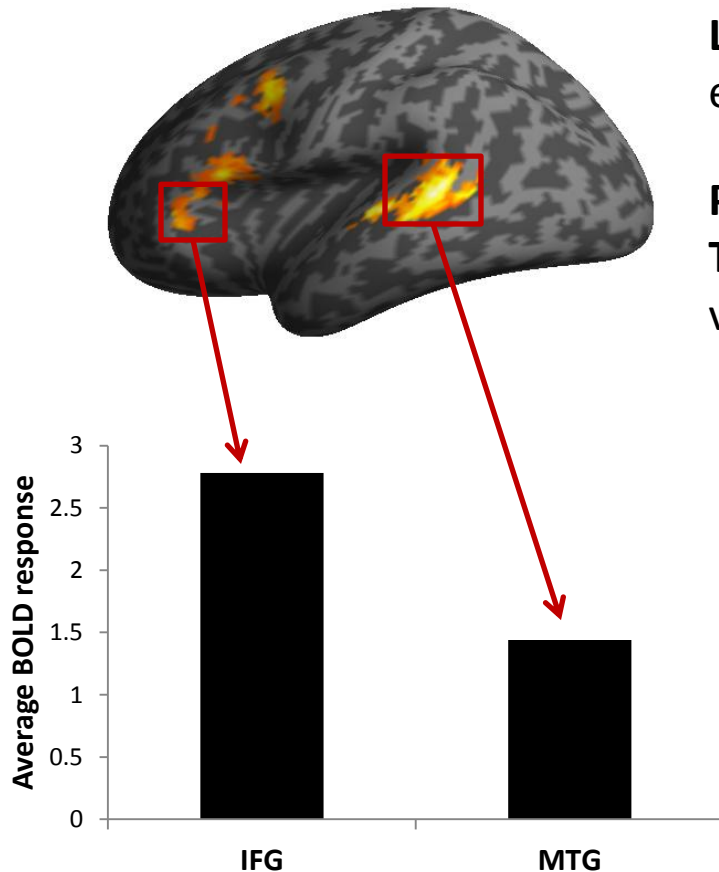
- in **(left posterior) MTG** is highly consistent, regardless of the task used.
- in frontal regions has been more inconsistently reported – they seem more task-related (e.g. MFG if morphological processing is stressed).

What about Noun-related activity?

Only the left fusiform gyrus observed in few studies, a region known relevant for object-processing

What drives verb-selectivity?

Functional neuroimaging study: Predication in MTG and IFG



Lexical decision task with verbs only
e.g. to fall, to **droc*

Predication measured through valence effects:
Transitive (e.g. desire) and **Intransitive** (e.g. die)
verbs.

- Activity in MTG and IFG is sensitive to transitivity, a property that nouns typically lack.

Neural activity as a function of transitivity

Intransitive > Transitive