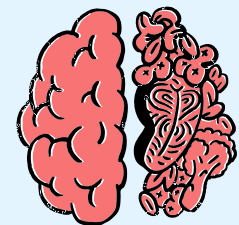


TSPO PET INSIGHTS INTO NEUROIMMUNE ASYMMETRY

CONTEXT



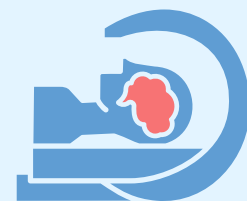
Structural asymmetry is well known

Immune asymmetry is still unclear



Lateralization of neuroinflammation in human brain

TSPO PET imaging is an advanced method to investigate CNS immune response



METHODS

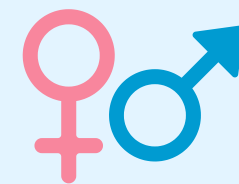
72 healthy controls



7 ROIs investigated

Lateralization Index calculated for TSPO uptake

Statistical analyses to assess the presence of lateralization

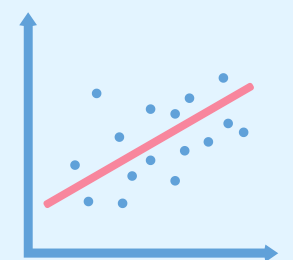


Covariate contributions via linear modeling

FINDINGS

Immune function shows no significant lateralization

Structural asymmetry is the most consistent predictor of immune lateralization



LIMITATIONS

Uneven gender distribution

Few covariates included

Healthy cohort only



CONCLUSION

In healthy individuals, immune function does not exhibit significant lateralization. Structural asymmetry emerges as a major predictor. Larger, more inclusive studies are needed to confirm these results.

Rebecca Annovi
Simone Bozzetto
Chiara De Bon
Francesca Lazzarotto

