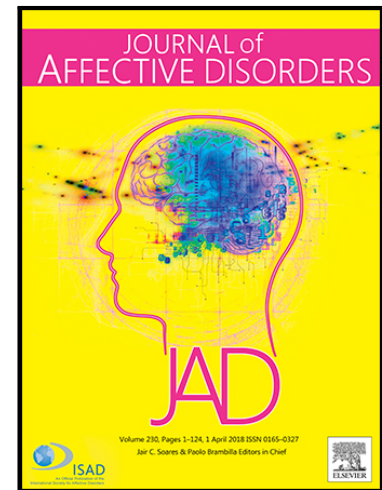


## Accepted Manuscript

Elevated tumor necrosis factor-alpha receptor subtype 1 and the association with abnormal brain function in treatment-resistant depression

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## Highlights

- Patients with MDD had higher serum concentrations of tumor necrosis factor- $\alpha$  receptor subtype 1 (TNF- $\alpha$  R1).
- TRD group had higher serum concentrations of TNF- $\alpha$  R1 than healthy control or non-TRD group.
- Increased TNF- $\alpha$  R1 was associated with impaired glutamatergic neurotransmission of caudate nucleus and anterior cingulate cortex in MDD patients, particularly in the TRD.
- Reversing the inflammatory process mediated by TNF- $\alpha$  might be beneficial in the treatment of antidepressant-resistant patients with MDD.

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