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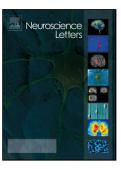
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NOD2-RIP2 Contributes to the Inflammatory Responses of Mice in Vivo to Streptococcus

Pneumoniae

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Highlights:

Streptococcus pneumoniae infection in the CNS causes activation of the

NOD2-RIP2 pathway.

NOD2-RIP2 signaling is involved in Streptococcus pneumoniae -induced

proinflammatory responses through induction of the NF-kB pathway and

subsequent production of inflammatory cytokines.

Blockade of RIP2 activation alleviates the streptococcus pneumoniae-induced

syndrome, suggesting that RIP2 inhibition might be effective in the treatment of

inflammatory disease in specific settings.

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