

# Accepted Manuscript

## Research report

AH6809 decreases production of inflammatory mediators by PGE<sub>2</sub> - EP2 - cAMP signaling pathway in an experimentally induced pure cerebral concussion in rats

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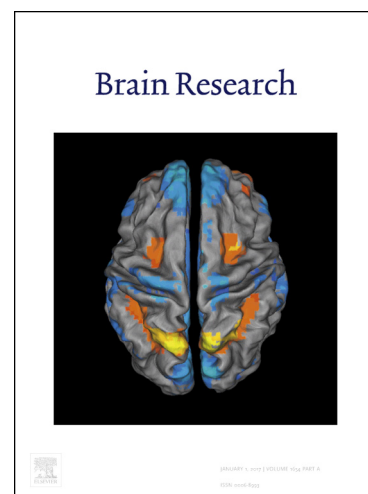
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**AH6809 decreases production of inflammatory mediators  
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**RUNNING TITLE:** AH6809 regulates inflammatory mediators in pure cerebral concussion

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## ABSTRACT

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Abbreviations:

TBI, traumatic brain injury; mTBI, mild traumatic brain injury; SBI, secondary brain injury; PCC, pure cerebral concussion; PCS, post concussive syndrome; CA, cornu ammonis; DG, dentate gyrus; COX, cyclooxygenase; mPGES-1, microsomal prostaglandin-E synthase; PGE<sub>2</sub>, prostaglandin E<sub>2</sub>; EP2, E-prostanoid receptor 2; cAMP, cyclic adenosine monophosphate; PGs, prostaglandins

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