

Accepted Manuscript

Tensile strain increased COX-2 expression and PGE₂ release leading to weakening of the human amniotic membrane

B. Chowdhury, A.L. David, C. Thrasivoulou, D.L. Becker, D.L. Bader, Dr T.T. Chowdhury

PII: S0143-4004(14)00782-6

DOI: [10.1016/j.placenta.2014.09.006](https://doi.org/10.1016/j.placenta.2014.09.006)

Reference: YPLAC 3055

To appear in: *Placenta*

Received Date: 26 March 2014

Revised Date: 14 July 2014

Accepted Date: 11 September 2014



Please cite this article as: Chowdhury B, David A, Thrasivoulou C, Becker D, Bader D, Chowdhury T, Tensile strain increased COX-2 expression and PGE₂ release leading to weakening of the human amniotic membrane, *Placenta* (2014), doi: 10.1016/j.placenta.2014.09.006.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Tensile strain increased COX-2 expression and PGE₂ release leading to weakening of the human amniotic membrane

Chowdhury B¹, David AL¹, Thrassivoulou C³, Becker DL⁴, Bader DL^{2,5} and Chowdhury TT².

¹Institute for Women's Health, University College London, 86-96 Chenies Mews, London, WC1E 6HX.

²Institute of Bioengineering, School of Engineering and Material Science, Queen Mary University of London, Mile End Road, London, E1 4NS.

³Department of Cell and Developmental Biology, UCL, Gower Street, London, WC1E 6BT.

⁴Lee Kong Chian School of Medicine, Nanyang Technological University, 11, Mandalay Road, Singapore.

⁵Faculty of Health Sciences, University of Southampton, Southampton General Hospital, Southampton, SO16 6YD.

Corresponding author details:

Dr Tina Chowdhury, Institute of Bioengineering, School of Engineering and Material Science, Queen Mary University of London, Mile End Road, London, E1 4NS. Tel: +44 0207 8827560

Keywords: Tensile strain; collagen; connexin 43, prostaglandin E₂; amniotic membrane; preterm premature rupture of the membrane; preterm labour.

Abbreviations: Preterm premature rupture of the membrane (PPROM), connexin 43 (Cx43), prostaglandin E₂ (PGE₂), cyclo-oxygenase 2 (COX-2).

Download English Version:

<https://daneshyari.com/en/article/5895066>

Download Persian Version:

<https://daneshyari.com/article/5895066>

[Daneshyari.com](https://daneshyari.com)