

Accepted Manuscript

Prenatal nicotine exposure intergenerationally programs imperfect articular cartilage via histone deacetylation through maternal lineage

Zhe Xie, Zhe Zhao, Xu Yang, Linguo Pei, Hanwen Luo, Qubo Ni, Bin Li, Yongjian Qi, Kai Tie, Jacques Magdalou, Liaobin Chen, Hui Wang

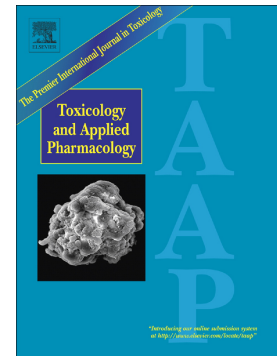
PII: S0041-008X(18)30104-2
DOI: doi:[10.1016/j.taap.2018.03.018](https://doi.org/10.1016/j.taap.2018.03.018)
Reference: YTAAP 14201

To appear in: *Toxicology and Applied Pharmacology*

Received date: 11 November 2017
Revised date: 15 February 2018
Accepted date: 14 March 2018

Please cite this article as: Zhe Xie, Zhe Zhao, Xu Yang, Linguo Pei, Hanwen Luo, Qubo Ni, Bin Li, Yongjian Qi, Kai Tie, Jacques Magdalou, Liaobin Chen, Hui Wang , Prenatal nicotine exposure intergenerationally programs imperfect articular cartilage via histone deacetylation through maternal lineage. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Ytaap(2018), doi:[10.1016/j.taap.2018.03.018](https://doi.org/10.1016/j.taap.2018.03.018)

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.



TITLE

Prenatal nicotine exposure intergenerationally programs imperfect articular cartilage *via* histone deacetylation through maternal lineage

Zhe Xie ^{*,†,1}, Zhe Zhao ^{*,1}, Xu Yang ^{*,†}, Linguo Pei [§], Hanwen Luo ^{*}, Qubo Ni ^{*,†}, Bin Li ^{*}, Yongjian Qi ^{*,†}, Kai Tie ^{*,†}, Jacques Magdalou [‡], Liaobin Chen ^{*,†,2}, Hui Wang ^{*,§,†,2}

^{*} Department of Orthopedic Surgery, Zhongnan Hospital of Wuhan University, Wuhan 430071, China

[§] Department of Pharmacology, Basic Medical School of Wuhan University, Wuhan 430071, China

[†] Hubei Provincial Key Laboratory of Developmentally Originated Diseases, 185 Donghu Road, Wuchang District, Wuhan 430071, China

[‡] UMR 7561CNRS-Université de Lorraine, Faculté de Médecine, Vandoeuvre-lès-Nancy, France

¹ These authors contributed equally to this work.

² Correspondences: L.C., Department of Orthopaedic Surgery, Zhongnan Hospital of Wuhan University, Wuhan 430071, China. Telephone: +86-13618610516; E-mail: lbchen@whu.edu.cn; H.W., Department of Pharmacology, Basic Medical School of Wuhan University, Wuhan 430071, China. Telephone: +86-13627232557; E-mail: wanghui19@whu.edu.cn.

ABBREVIATIONS

ACAN, aggrecan; ECM, extracellular matrix; PNE, prenatal nicotine exposure; GC, glucocorticoid; H3K9, lysine 9 of histone H3; GD, gestational day; PW, postnatal week; SOX9, SRY-type high mobility group box 9; TGF β , transforming growth factor β ; TGF β R1, transforming growth factor β receptor 1.

Download English Version:

<https://daneshyari.com/en/article/8538378>

Download Persian Version:

<https://daneshyari.com/article/8538378>

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