

Match Overview

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2	Crossref 13 words Yuan Qu, Dan Liu, Huimin Jia, Zhonghua Yang. "Circular RN A rno_circ_0004002 regulates cell proliferation, apoptosis, an	<1%
3	Crossref 13 words Bing Han, Jie Chao, Honghong Yao. "Circular RNA and its i... echanisms in disease: From the bench to the clinic", Pharma	<1%
4	Crossref 12 words Hang Tuo, Yufeng Wang, Liang Wang, Bowen Yao et al. "MiR -324-3p promotes tumor growth through targeting DACT1 i...	<1%

Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 54554

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Rno_circ_0005139 regulates apoptosis by targeting *Wnt5a* in rat anorectal malformations

Liu D *et al.* Circ_0005139 plays roles in ARM

Dan Liu, Yuan Qu, Zheng-Nong Cao, Hui-Min Jia

Abstract

BACKGROUND

The molecular mechanisms underlying anorectal malformations (ARM) are not fully established. Circular RNAs (circRNAs) are new born non-coding RNAs, and their role in ARM is unclear. We assumed rno_circ_0005139

Rno_circ_0005139 regulates proliferation and apoptosis



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4069947>

Wnt5a, a significant member of Wnt family, has been implicated in the **regulation of development, proliferation**, and cell differentiation [21-26]. Besides, it was revealed that **Wnt5a** played an important role in human hindgut and the down **regulation of Wnt5a** might partly be related to the maldevelopment of terminal hindgut in **ARMs** [27 , 28].

Cited by: 2**Author:** Jie Mi, Dong Chen, Xiantan Ren, Huimin...**Publish Year:** 2014

Dysregulation of Wnt inhibitory factor 1 (Wif1) expression ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4013516>

Deletion of **Shh**, **Wnt5a** or **Bmp7** in **mouse embryos** resulted in **reduced proliferation** of the urs mesenchyme, incomplete urs elongation and septation defects. In addition, the cm was either disintegrated or remained intact in these null **embryos**, giving rise to **hypospadias-like** or persistent cloaca phenotypes (Figure 1).

Cited by: 24**Author:** R C-L Ng, D Matsumaru, A S-H Ho, M-...**Publish Year:** 2014

Involvement of proliferative and apoptotic factors in the ...

<https://www.sciencedirect.com/science/article/pii/S0065128119304520>

Chen et al. found that the **pro-apoptotic gene BCL2** associated **X apoptosis regulator** was significantly upregulated in the pelvic floor muscles of **ARMs** rats, while the **antiapoptotic gene BCL2 apoptosis regulator** was downregulated, suggesting that dysregulation of apoptosis may be a factor in **ARMs** development (**Chen et al.**, 2009).

Author: Caiyun Long, Yunxia Xiao, Siying Li, ...**Publish Year:** 2020

Expression of Wnt5a during development of anorectal ...

https://www.researchgate.net/publication/263014974_Expression_of_Wnt5a_during



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Rno_circ_0005139 regulates apoptosis by targeting Wn



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Spatiotemporal expression of Wnt5a during the development ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4069947>

Wnt signal pathway is extremely important for **MRFs regulation**. This study was designed to investigate the spatiotemporal expression pattern of **Wnt5a** in **SMC in ARMs rat embryos**.
Materials and Methods: **Anorectal malformation embryos** were induced by ethylene thiourea on embryonic day 10 (E10).

Cited by: 2

Author: Jie Mi, Dong Chen, Xiantan Ren, Huimin...

Publish Year: 2014

Dysregulation of Wnt inhibitory ... - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4013516>

However, deletion of Shh eradicated the cm, exposing the unseptated cloaca exteriorly, whereas the cm remained intact in the loss of Gli2. 7, 13 **Wnt5a** is crucial for urorectal development and **regulates** the outgrowth of GT. 8, 10 Studies suggest that **Wnt- β -catenin signaling activity** is tightly **regulated** in urorectal development. 14, 15 Furthermore, β -catenin expression was ...

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Author: R C-L Ng, D Matsumaru, A S-H Ho, M-...

Publish Year: 2014

Expression of Wnt5a during development of anorectal ...

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Involvement of proliferative and apoptotic factors in the ...

<https://www.sciencedirect.com/science/article/pii/S0065128119304520>

Chen et al. found that the pro-apoptotic gene BCL2 associated **X apoptosis regulator** was significantly upregulated in the pelvic floor muscles of ARMs rats, while the **antiapoptotic gene BCL2 apoptosis regulator** was downregulated, suggesting that dysregulation of apoptosis may be



Rno_circ_0005139 regulates apoptosis by targeting



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[Spatiotemporal expression of Wnt5a during the development ...](#)

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Wnt signal pathway is extremely important for **MRFs regulation**. This study was designed to investigate the spatiotemporal expression pattern of **Wnt5a** in **SMC in ARMs rat embryos**. Materials and Methods: **Anorectal malformation embryos** were induced by ethylene thiourea on embryonic day 10 (E10).

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Publish Year: 2014

[Dysregulation of Wnt inhibitory ... - PubMed Central \(PMC\)](#)

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Cited by: 24 **Author:** R C-L Ng, D Matsumaru, A S-H Ho, M-M ...

Publish Year: 2014

[Wnt5a expression in the hindgut of fetal rats with ...](#)

<https://link.springer.com/article/10.1007/s00384-010-1125-0> ▾

Jan 07, 2011 - **Wnt5a** is involved in the initiating and patterning morphological adaptations of gut. However, its role remained unknown during terminal hindgut development in the normal and **anorectal malformation (ARM) rat embryos**. This study was designed to investigate the expression pattern of **Wnt5a** in the terminal hindgut in ARM **rat embryos**. Ethylenethiourea-induced ARM model was ...

Cited by: 11 **Author:** Huimin Jia, Qingjiang Chen, Tao Zhang, ...

Publish Year: 2011

[Expression of Wnt5a during development of anorectal ...](#)

<https://www.researchgate.net/publication/263014974...>

The expression pattern of **Wnt5a** and the **ARM phenotype** seen in **Wnt5a(-/-) mutants** demonstrate the **anorectal development**. This study establishes a new model of **ARM** ...