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**Manuscript Type:** ORIGINAL ARTICLE

*Clinical Trials Study*

**Comparison of *TPMT* and *NUDT15* polymorphisms in Chinese patients with inflammatory bowel disease**

Hong-Hui Wang, Ying He, Hong-Xian Wang, Cheng-Ling Liao, Yu Peng, Li-Jian Tao, Wei Zhang, Hui-Xiang Yang

**Abstract**

**AIM**

To observe gene polymorphisms of *TPMT* and *NUDT15*, and compare their predictive value for azathioprine-induced leukopenia in inflammatory bowel disease (IBD).

**METHODS**

### Match Overview

1 **Crossref** 21 words  
Yoichi Kakuta, Yoshitaka Kinouchi, Tooru Shimosegawa. "P  
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### Impact of NUDT15 polymorphisms on thiopurines-induced ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5355121/> - 翻译此页

作者 : D Yin - 2017 - 被引用次数 : 3 - 相关文章

2017年1月11日 - Paradoxically, thiopurines-induced leukopenia is more common in Asians, and quite a few patients with wild-type TPMT are intolerant to full dose of thiopurine drugs ... Arg139Cys) to be associated with intolerance to thiopurines or thiopurines-induced ADR in patients with ALL and IBD, respectively [2, 12].

### A common missense variant in NUDT15 confers susceptibility to ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4999337/> - 翻译此页

作者 : SK Yang - 2014 - 被引用次数 : 118 - 相关文章

2014年8月10日 - Although rare, this SNP was also strongly associated with thiopurine-induced leukopenia in subjects with inflammatory bowel disease of European descent (OR ... Azathioprine (AZA) and its close analog 6-mercaptopurine (6-MP) are thiopurines widely used in the treatment of patients with cancers, organ ...

### NUDT15 variant and thiopurine-induced leukopenia in Hong Kong ...

[www.hkmj.org/abstracts/v22n2/185.htm](http://www.hkmj.org/abstracts/v22n2/185.htm) - 翻译此页

The association of NUDT15 R139C with thiopurine-induced leukopenia has subsequently been demonstrated in Japanese patients with inflammatory bowel disease<sup>15</sup> and Taiwan Chinese patients with childhood acute lymphoblastic leukaemia (ALL).<sup>16</sup> NUDT15 R139C is much more common than the TPMT\*3C variant in ...

### Pharmacogenetics of thiopurines for inflammatory bowel disease in ...

<https://link.springer.com/content/pdf/10.1007/s00535-017-1416-0.pdf> - 翻译此页

作者 : Y Kakuta

2017年11月19日 - patients with Crohn's disease revealed that a non-synony- mous single nucleotide polymorphism in nucleoside diphosphate-linked moiety X-type motif 15 (NUDT15) which causes p.Arg139Cys was strongly associated with thiopurine-induced early leukopenia. Six common haplo-

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### NUDT15 polymorphisms are better than thiopurine S ... - NCBI

<https://www.ncbi.nlm.nih.gov/pubmed/27604507> - 翻译此页

作者 : X Zhu - 2016 - 被引用次数 : 17 - 相关文章

2016年9月8日 - **NUDT15 polymorphisms** are better than thiopurine S-methyltransferase as predictor of risk for thiopurine-induced leukopenia in **Chinese patients with Crohn's ...** R139C, thiopurine S-methyltransferase (**TPMT**), 6-TGN and 6-MMPR on thiopurine-induced leukopenia in **Chinese patients with Crohn's disease**.

### Impact of NUDT15 polymorphisms on thiopurines-induced ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5355121/> - 翻译此页

作者 : D Yin - 2017 - 被引用次数 : 3 - 相关文章

2017年1月11日 - **Compared** to CC carriers (as reference group), T allele carriers (CT and TT genotypes) required 28% ( $P < 0.00001$ , 95% CI: [-0.34, -0.21]) lower mean daily thiopurines dose. Because thiopurine dosage used in ALL **patients** is significantly higher than that in **IBD patients**, we separated the **patients** into two ...

### NUDT15, FTO, and RUNX1 genetic variants and thiopurine ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5478757/> - 翻译此页

作者 : T Sato - 2017 - 被引用次数 : 1

2017年6月12日 - Therefore, genetic risk factors predictive of such thiopurine-induced effects have been studied in **patients with IBD**.3 Certain **polymorphisms** of thiopurine methyltransferase (**TPMT**) are well-characterized genetic markers of risk of thiopurine-induced adverse events, and **TPMT** genotyping prior to initiation of ...

### NUDT15 polymorphisms are better than thiopurine S ... - ResearchGate

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On Sep 1, 2016 X. Zhu (and others) published: **NUDT15 polymorphisms** are better than thiopurine S-methyltransferase as predictor of risk for thiopurine-induced leukopenia in **Chinese patients with Crohn's disease**.

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... missense variant in NUDT15 confers susceptibility to ... - Yang - 被引用次数: 122

... cohort of patients with inflammatory bowel disease - Hindorf - 被引用次数: 147

... in the treatment of inflammatory bowel disease - Ansari - 被引用次数: 164

### NUDT15 polymorphisms are better than thiopurine S ... - ResearchGate

[https://www.researchgate.net/.../307953978\\_NUDT15\\_polymorphisms\\_are\\_...](https://www.researchgate.net/.../307953978_NUDT15_polymorphisms_are_...) - 翻译此页

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### Thiopurine S-Methyltransferase Polymorphisms in ... - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5597644/> - 翻译此页

作者: M Lee - 2017