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**Manuscript NO:** 40267

**Manuscript Type:** MINIREVIEWS

**Resistance to FLT3 inhibitors in acute myeloid leukemia: Molecular mechanisms and resensitizing strategies**

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### Abstract

FMS-like tyrosine kinase 3 (FLT3) is classified as a Type III receptor tyrosine kinase (RTK), which exerts a key role in regulation of normal hematopoiesis. FLT3 mutation is the most common genetic mutation in acute myeloid leukemia (AML) and represents an attractive therapeutic target. Targeted therapy with FLT3 inhibitors in AML shows modest promising results in current ongoing clinical trials suggesting the complexity of FLT3 targeting in therapeutics.

### Match Overview

- |   |   |     |
|---|---|-----|
| 1 | <b>Crossref</b> 16 words<br>Tiziana Grafone. "Monitoring of FLT3 phosphorylation status and its response to drugs by flow cytometry in AML blast cells" | <1% |
| 2 | <b>Internet</b> 14 words<br>crawled on 19-Jun-2009<br><a href="http://bloodjournal.hematologylibrary.org">bloodjournal.hematologylibrary.org</a>        | <1% |

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## FLT3 inhibitors for acute myeloid leukemia: a review of their efficacy ...

<https://www.ncbi.nlm.nih.gov/pubmed/23613268> ▾ 翻译此页

作者: MR Grunwald - 2013 - 被引用次数: 109 - 相关文章

2018年4月24日 - FLT3 inhibitors for acute myeloid leukemia: a review of their efficacy ... Multiple small molecule TKIs are currently in development for FLT3-mutated AML, ... Understanding the mechanisms of resistance and overcoming these ...

缺少字词: resensitizing strategies

## Mechanisms of resistance to FLT3 inhibitors and the role of the bone ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5512588/> - 翻译此页

跳到 Strategies to prevent development of resistance or to sensitize cells to ... - Recently developed inhibitors are more specific and very potent. ... models of FLT3-ITD AML that would ... with small molecules showed ... Since the survival of FLT3-ITD leukemia ... resensitize resistant FLT3-ITD AML cells to TKI.

## The Current State of FLT3 Inhibition in Acute Myeloid Leukemia ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5964994/> - 翻译此页

作者: KA Minson - 2017 - 相关文章

2017年10月16日 - In acute myeloid leukemia (AML) the first successes have been in targeting ... Small molecule inhibitors targeting FLT3 have been in clinical use for the past ... Here we describe mechanisms of resistance to FLT3 inhibitors and ongoing .... A number of new inhibitors and dual inhibition strategies have been ...

## Treatment Emergent Resistance in MLL Rearranged Leukemia

[mct.aacrjournals.org/content/early/.../1535-7163.MCT-16-0693.full-text.pdf](http://mct.aacrjournals.org/content/early/.../1535-7163.MCT-16-0693.full-text.pdf) - 翻译此页

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<https://www.ncbi.nlm.nih.gov/pubmed/19162530> - 翻译此页

作者: SH Chu - 2009 - 被引用次数: 53 - 相关文章

2009年1月21日 - In **acute myeloid leukemias** (AMLs), the most frequent identified transforming ... the **mechanisms** of **resistance to FLT3 inhibitors** and possible **strategies** to ... **Leukemia, Myeloid, Acute/drug therapy\***; **Leukemia, Myeloid, Acute/** ...

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### Mechanisms of resistance to FLT3 inhibitors - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4891941/> - 翻译此页

作者: SH Chu - 2009 - 被引用次数: 53 - 相关文章

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### Mechanisms of Resistance to FLT3 Inhibitors and the Role of the Bone ...

<https://www.ncbi.nlm.nih.gov/pubmed/28673395> - 翻译此页

作者: G Ghiaur - 2017 - 被引用次数: 5 - 相关文章

2017年5月18日 - **Mechanisms of Resistance to FLT3 Inhibitors** and the Role of the Bone ... The presence of FLT3 mutations in **acute myeloid leukemia** (AML) carries a ... studies into **mechanisms** of **resistance** raise hope of new **strategies** to ...

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作者 : SH Chu - 2009 - 被引用次数 : 53 - 相关文章

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