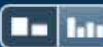


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| 1 | <b>Crossref</b> 72 words<br>Hammad Tashkandi, Erika M. Moore, Benjamin Tomlinson, Teresa Goebel, Navid Sadri. "Co-occurrence of type I CALR al...   | 4% |
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**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 55851

**Manuscript Type:** CASE REPORT

**Primary myelofibrosis with concurrent *CALR* and *MPL* mutations: A case report**

Zhou FP *et al.* Co-mutation of *CALR* and *MPL* genes

Feng-Ping Zhou, Cheng-Cheng Wang, Hua-Ping Du, Shan-Bo Cao, Jin Zhang



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<https://onlinelibrary.wiley.com/doi/full/10.1002/ajh.25230>

Jul 23, 2018 · Primary myelofibrosis (PMF) is a myeloproliferative neoplasm (MPN) characterized by stem cell-derived clonal myeloproliferation that is often but not always accompanied by JAK2, CALR, or MPL mutations; additional disease features include **bone marrow stromal reaction** including **reticulin fibrosis**, **abnormal cytokine expression**, **anemia**, **hepatosplenomegaly**, **extramedullary hematopoiesis** ...

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Somatic mutations in CALR gene have been reported in 60%–88% of patients with **essential thrombocythemia (ET)** and **primary myelofibrosis (PMF)** who are negative for JAK2 and MPL mutations. Most of the CALR mutations analyzed to date are **heterozygous mutations** in **exon 9** ...

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### PEOPLE ALSO ASK

Are there any universal guidelines for JAK2 and CALR?