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Synthesis and anticancer activity evaluation of novel azacalix[2]arene[2]pyrimidines

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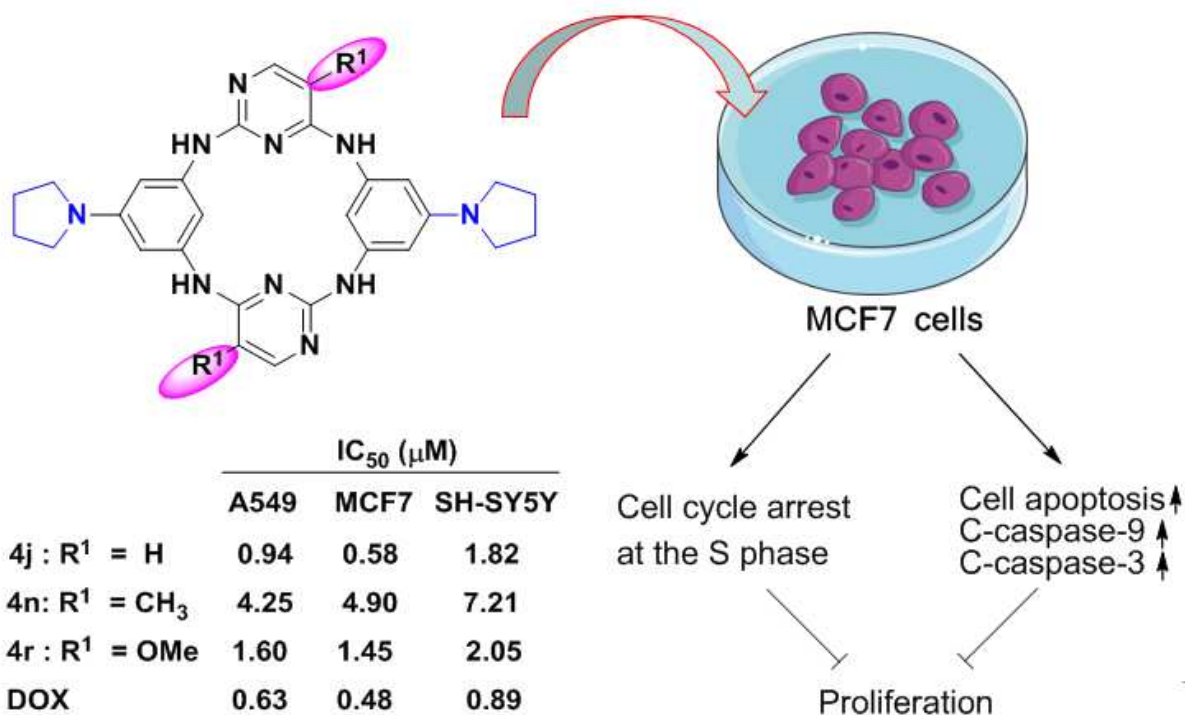
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### Graphical abstract

Novel azacalix[2]arene[2]pyrimidines were designed and synthesized. Compound **4j** exhibited strong inhibitory activity against MCF7 cells, and its mechanisms were involved in inducing apoptosis via up-regulation of caspase-3 and caspase-9 cell and cycle arrest at the S phase.



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