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## Deciphering Molecular Consequences of the Proprotein Convertase 1/3 Inhibition in Macrophages for Application in Anti-tumour Immunotherapy

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### Highlights

- Reactivation of macrophages inside the tumour site.
- Orientation of macrophages towards an pro-inflammatory phenotype through PC1/3 inhibition
- In PC1/3 KD macrophages, TLR4 and TLR9 signaling pathways is enhanced
- PC1/3 KD after TLR4 and TLR9 stimulation secrete pro-inflammatory factors and anti-tumour factors.
- PC1/3 regulates TLR9 trafficking through indirect cleavage of GRAMD4

### Abstract

During tumour development, macrophages are recruited to the tumour site and orientated towards an anti-inflammatory phenotype. Due to their immunosuppressive function, tumour associated macrophages (TAMs) are recognized as major components in tumour progression. Changing these macrophages to a pro-

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