

## **Inflammasomes: from fundamental biology to new therapeutics**

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Inflammasomes are signalling complexes that trigger inflammation and disease.

Inflammasomes activate the protease caspase-1 to induce cells to produce inflammatory mediators (e.g. interleukin-1 $\beta$ , IL-1 $\beta$ ) and undergo inflammatory cell death. Here, I will describe some of our lab's recent discoveries of mechanisms underpinning this unusual cell signalling pathway, and how we are using this knowledge to develop new anti-inflammatory drugs targeting single or multiple inflammasomes.