Ex-Vivo NETose induction model

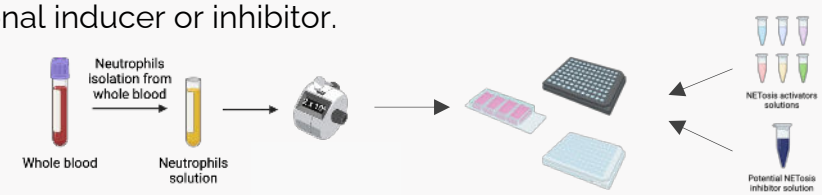
You are developing a drug and want to evaluate its impact on the NETosis?

QUALIblood proposes an **ex vivo NETosis induction model** to screen potential inducers or inhibitors of NETosis.

NETosis is a type of neutrophil death characterized by the release of decondensed chromatin and granular contents to the extracellular space normally occuring to combat pathogens such as bacteria, fungi, and viruse.
These releases create a web named **N**eutrophil **E**xtracellular **T**raps (NETs) which can be beneficials in case of infections but deleterious when excessive or dysregulated.
Indeed, they can lead to surrounding tissue damages, thrombosis and chronic inflammation.
It is therefore crucial to understand the impact of new therapies on NETose phenomenon

Protocol

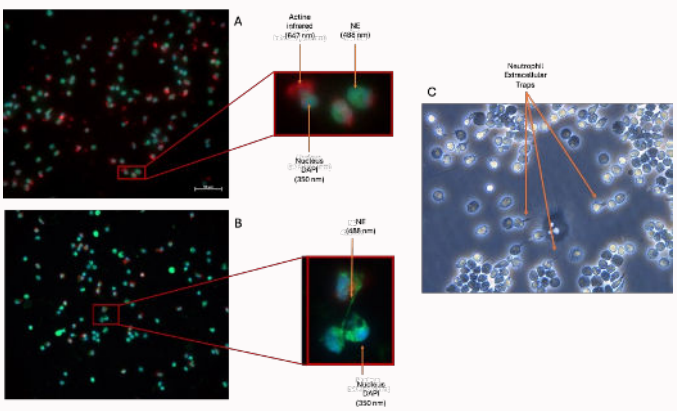
Neutrophils, freshly extracted from healthy donor blood, are brought into contact with the investigational inducer or inhibitor.



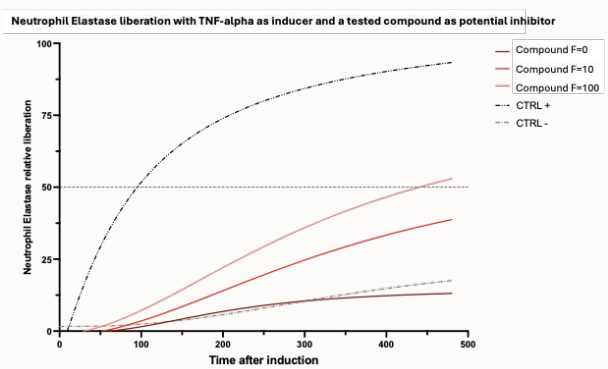
Three types of outcomes can be obtained:

(1) Qualitative images of NETs by immunofluorescence (A & B) and visible light (C),
(2) Kinetics of NET formation by tracking the release of different biomarkers, and
(3) Quantitative determination of NETosis biomarker in cell supernatants.

(1) Qualitative images



(2) NET formation kinetic



Contact us if you need additional information or a quotation:
contact@qualiblood.eu

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