



INSTITUTE OF TECHNOLOGY  
**TRALEE**  
INSTITIÚID TEICNEOLAÍOCHTA TRÁ LÍ



# DR. NIALL BURKE

THE INSTITUTE OF TECHNOLOGY TRALEE WILL TEST THE SALICIN EXTRACTS FOR ANTI-INFLAMMATORY ACTIVITY

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## What will the Institute of Technology Tralee do?

- The Institute of Technology Tralee will use the extract developed from the unprocessed bark of the willow tree to characterise its biochemical antioxidant activity (ORAC) and biological anti-inflammatory activity (cell culture).
- This will provide a baseline activity level against which subsequent work can be benchmarked.
- Size exclusion chromatography (SEC) will be used to separate the willow bark extract according to molecular weight.
- Fractions collected from the SEC will be characterised for their biochemical antioxidant activity, biological antioxidant activity and biological anti-inflammatory activity.
- This will identify which fractions contain the highest levels of bioactivity with respect to antioxidant and anti-inflammatory activity.

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