

Microfluidic paper based analytical devices for point-of-care biochemical assays of chronic diseases biomarkers



CATOLICA
ESCOLA SUPERIOR
DE BIOTECNOLOGIA

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PORTO

BIOSENSORS 2025
35th Anniversary World Congress on Biosensors

Chronic Diseases

μ (micro)fluidic Paper-based Analytical Devices



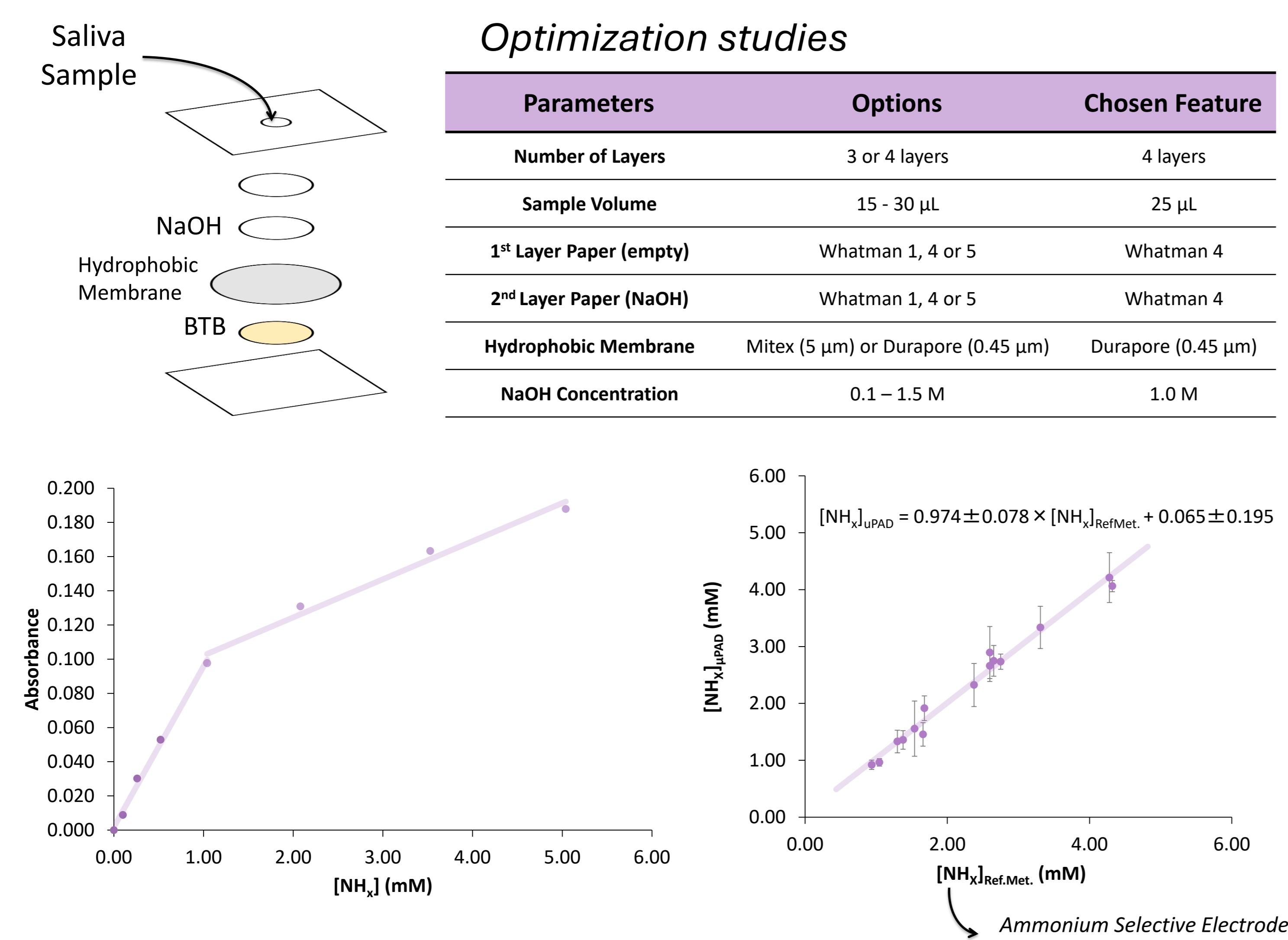
In 2019, 74% of deaths worldwide were due to chronic diseases



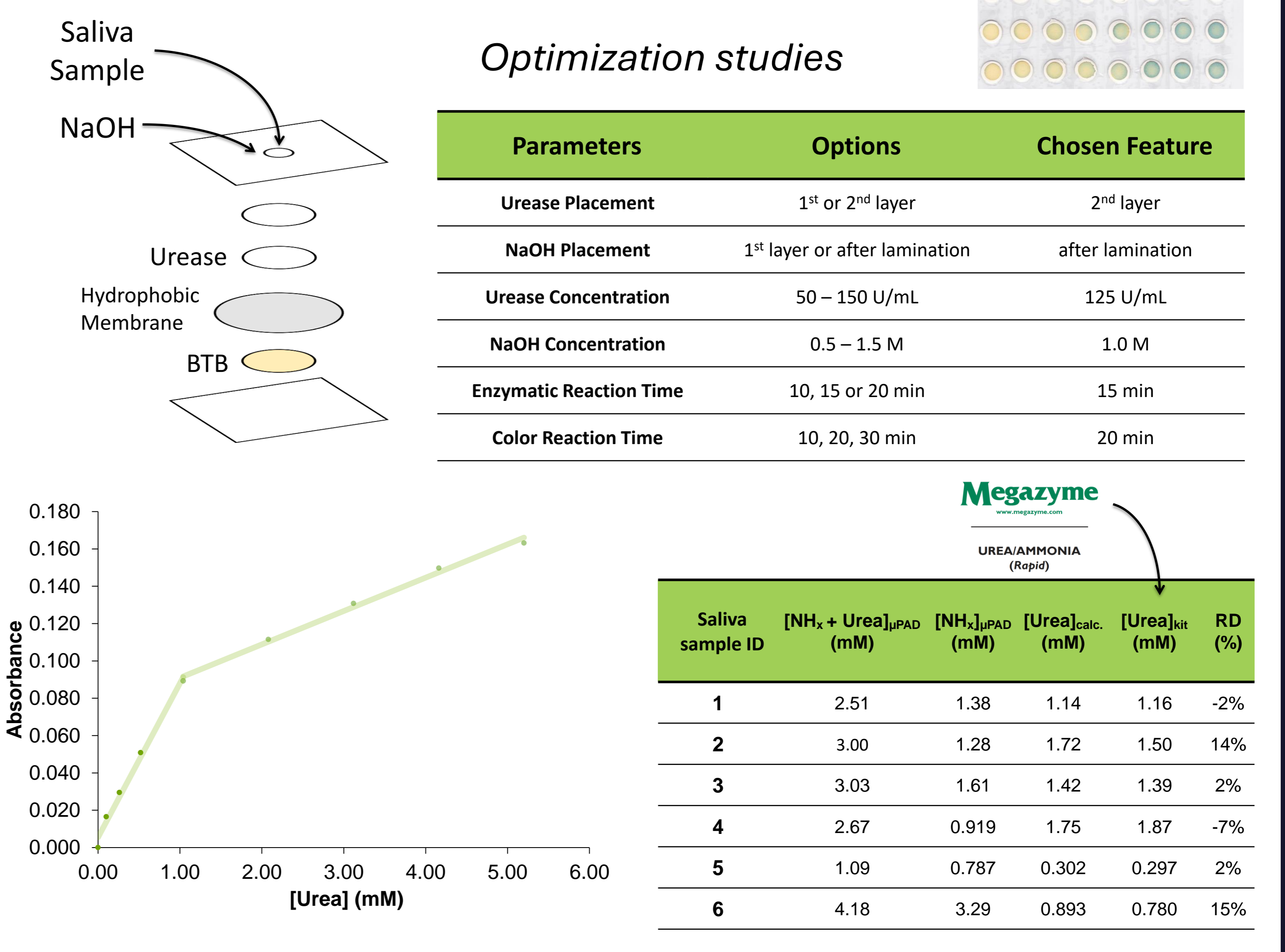
Accurate quantification
User-friendly
Affordable
Portable
Disposable

Monitoring and diagnosis of chronic diseases

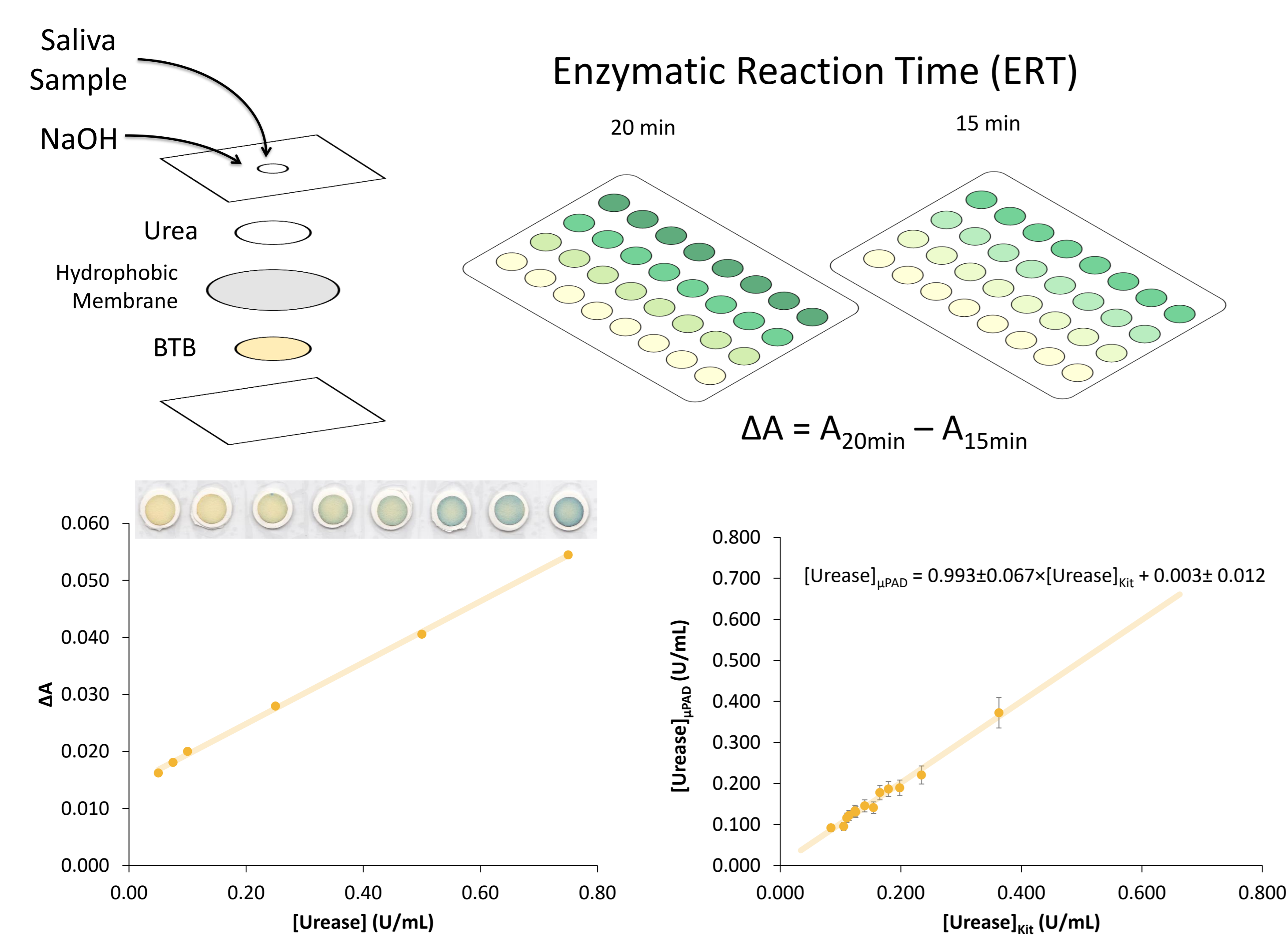
AMMONIA NITROGEN DETERMINATION



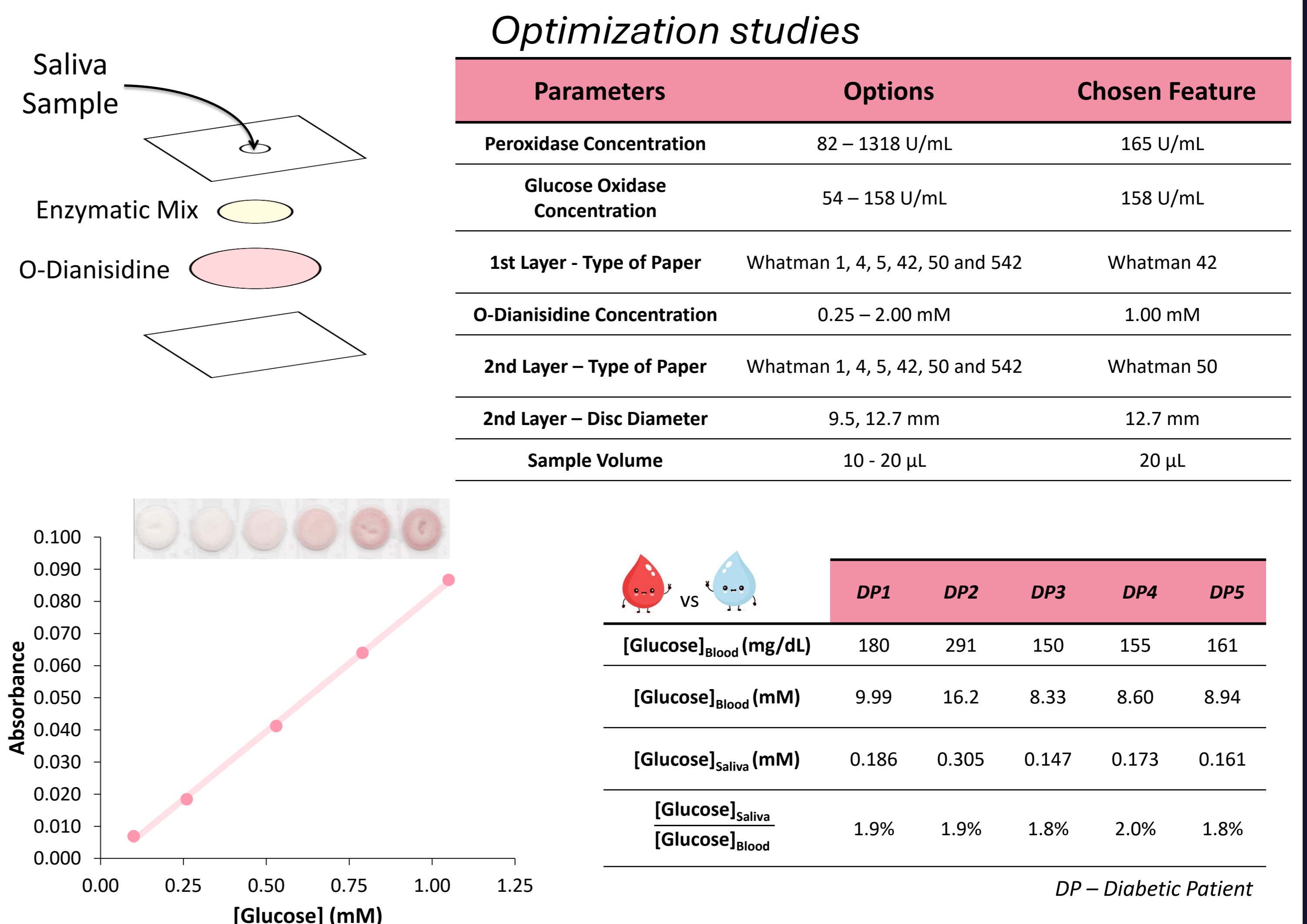
UREA DETERMINATION



UREASE ACTIVITY DETERMINATION



GLUCOSE DETERMINATION



Acknowledgements

F. T. S. M. Ferreira thanks FCT- Fundação para a Ciência e a Tecnologia for the grant SFRH/BD/144962/2019. This work was also supported by National Funds from FCT - Fundação para a Ciência e a Tecnologia through project UIDB/50016/2020.



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