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Pumping new life into preclinical pharmacokinetics: exploring the pharmacokinetic application of ex vivo organ perfusion

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Stellingen behorende bij het proefschrift getiteld:

“Pumping new life into preclinical pharmacokinetics; exploring the pharmacokinetic application of ex vivo organ perfusion”

1. Perfusion of diseased human organs increases the knowledge on drug pharmacokinetics for patients with end stage liver disease (this thesis)
2. The effect of hepatic drug-drug interaction on plasma pharmacokinetics can be predicted using porcine liver perfusion (this thesis)
3. Optimization of physiological conditions by suppletion of endogenous compounds is an overlooked aspect and is as important as technological improvements during (long-term) normothermic machine perfusion (this thesis)
4. Multi-organ perfusion generates novel insights into drug ADME processes which otherwise could not be studied in human subjects (this thesis)
5. Ex vivo perfusion models are an understudied and under-used preclinical model
6. Streamlining the accessibility of discarded human tissues and whole organs is needed to enhance pharmacological and toxicological research
7. With the current developments in organ perfusion combined with biological and pharmacological insights, it is possible to perfuse any organ on a perfusion machine
8. There is much to be gained through mutual learning and collaboration between the fields of transplantation, cell biology and pharmacology
9. By approaching a PhD as a series of sprints rather than a marathon, you can achieve sharper focus, sustain high motivation and produce higher quality of work
10. To eat meat responsibly, consumers must dare to face the slaughterhouse thereby understanding and accepting the processes involved
11. The philosophy of ‘You go faster when you smile’ applies to the PhD journey highlighting the importance of a positive attitude and humor to enhance performance and well-being

Lianne Stevens

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