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Preclinical validation and mechanistic understanding of drug repurposing candidates for polycystic kidney disease

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Stellingen

Behorend bij het proefschrift getiteld

Preclinical validation and mechanistic understanding of drug repurposing candidates for polycystic kidney disease

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1. Pioglitazone is not effective in slowing down cyst growth (this thesis)
2. Interspecies differences are to be considered in more detail in the planning, execution and analysis of preclinical research of ADPKD drug candidates (this thesis)
3. Salsalate is a viable candidate for development into an ADPKD treatment (this thesis)
4. Multitarget approaches for targeting the dysregulated signalling machinery deserve more consideration in ADPKD preclinical research (this thesis)
5. A ketogenic diet might hold therapeutic potential for the treatment of ADPKD (Cukoski S. et al., *Cell Rep Med* 2023 Nov 21;4(11):101283)
6. The largely unsuccessful translation of preclinically effective ADPKD drugs to human models mandates testing in multiple preclinical *in vivo* models before clinical testing (Sieben CJ & Harris PC, *Kidney360* 2023 Aug 1;4(8):1155-1173)
7. Polycystic kidney disease can be reversed in mice upon re-expression of the polycystin genes (Dong K et al., *Nat Genet* 2021 Dec;53(12):1649-1663)
8. The discovery and positive preclinical evaluation of RGLS4326 opens up possibilities for its development as the first disease gene-modifying drug treatment for ADPKD (Lee EC et al., *Nat Commun* 2019 Sep 12;10(1):4148)
9. A bad first impression can take a long time to repair and come back from
10. In both life and cystic kidney disease, your environment and connections influence your development and personal growth