

## Stellingen

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1 The potent androgen 11-ketotestosterone is the most abundant active androgen in the circulation after castration.

*This thesis*

2 Conversion of adrenal precursor steroids, but not *de novo* steroidogenesis, predominantly drives the intratumoral accumulation of active androgens.

*This thesis*

3 Steroid-profiling in non-standard matrices may yield valuable insight into the steroid metabolome, while limiting the need for additional blood samples.

*This thesis*

4 Androgen receptor ligand-binding domain mutants are each activated by unique sets of canonical and non-canonical ligands, necessitating personalized treatment approaches.

*This thesis*

5 The western-style diet, with its high salt content, may modulate cortisol metabolism through a mechanism independent of adrenal cortisol production.

*This thesis*

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6 The most important goal in the immediate future for studies on steroidogenesis in prostate cancer is the selection of those patients that are susceptible for p450c17 or AR blockade. *Hans Hofland. Local control of steroid hormone biosynthesis, 2012.*

7 The androgen receptor antagonist enzalutamide is, in fact, also an inhibitor of steroidogenesis. *Alyamani et al., Annals of Oncology, 2020.*

8 Liquid biopsies can provide crucial insight into the presence of resistance mechanisms, which can be used to inform optimal treatment strategies. *Hanna Tukachinsky et al., Clinical Cancer Research, 2021.*

9 The inter-assay variability between commercially available AMH-assays suggests that a true reference method is needed. *Leif Bungum et al., Frontiers in Endocrinology, 2018.*

10 Androgen receptor signalling may protect against the detrimental effects of COVID-19 infection in men. *Margherita Baldassarri et al., EBioMedicine, 2021*

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11. The most important step a man can take. It's not the first one, is it? It's the next one. Always the next step. *Brandon Sanderson, Oathbringer. 2017*