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Repurposing ubiquitination for innovative antibody conjugation

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Stellingen behorende bij het proefschrift getiteld

Repurposing ubiquitination for innovative antibody conjugation

1. Repurposing concepts from one field for another fosters rewarding interdisciplinary discoveries.
2. In the dynamic world of proteins, a his-tag's promise of protection is as reliable as a weather forecast. (This thesis, Chapter 2)
3. By harnessing ubiquitin's biological role in antigen presentation by DCs and its technical utility as a conjugation tag, ubi-tagging offers a synergistic approach to targeted vaccine delivery. (This thesis, Chapter 3 and 4)
4. The unexpected antigen specific T cell activation of untargeted ubiquitin-antigen fusions, both in vitro and in vivo, redefines the traditional beliefs about of ubiquitin's cell permeability and its potential applications in immunology. (This thesis, Chapter 3 and 4)
5. Ubiquitin's ability to stabilize and solubilize hydrophobic peptides has the potency to facilitate the development of peptide-based reagents and therapeutics that were previously limited by poor solubility. (This thesis, Chapter 4)
6. As we decode more of the ubiquitin system and expand its synthetic toolbox, the applications for ubi-tagging will expand exponentially.
7. Despite the functional success of chemically synthesized GFP nanobodies, the viability of replacing recombinant methods broadly remains uncertain. (This thesis, Chapter 5)
8. Small stature, big impact: Ubiquitin, nanobodies and Huib Ovaa. (This thesis)
9. Desperation ignites creativity, turning research crises into opportunities.
10. The value of completion with minor imperfections outweighs the pursuit of perfection.