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Proteomics and Functional Investigation of SUMO and Ubiquitin E3 ligases

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Citation

Salas Lloret, D. (2023, October 10). *Proteomics and Functional Investigation of SUMO and Ubiquitin E3 ligases*. Retrieved from <https://hdl.handle.net/1887/3643201>

Version: Publisher's Version

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Stellingen
Behorend bij het proefschrift getiteld

Proteomics and functional investigation of SUMO and ubiquitin E3 ligases

1. TULIP2 methodology allows the identification of E3 and E2 ubiquitination substrates (this thesis).
2. Overexpression of SUMO E3 ligases leads to SUMO2 depletion within the cell (this thesis).
3. BRCA1/BARD1 E3 ligase is dispensable for Homologous Recombination pathway (this thesis | Nakamura et al., 2019, Nat Cell Biol | Kraiss et al., 2021, Nat Commun | Sherker et al., 2021, EMBO Rep).
4. BRCA1/BARD1 ubiquitinates PCNA on lysine 165 in RPE-1 cells (this thesis).
5. Mass Spectrometry is a powerful tool that will be used regularly in the clinic for diagnosis and analysis of patient samples (e.g. MassSpec Pen) (Sans et al., 2019, Clin Chem).
6. One unresolved key question is how some proteins can be modified by multiple E3 ligases while others can only be modified by an exclusive E3.
7. Most cellular processes are regulated by either the presence or the absence of key proteins, identifying and regulating those proteins is crucial to fight diseases
8. In a research project, the hardest part is usually the most exciting one, asking the right questions.
9. An important principle of science is the observation, observe interesting things to find interesting answers. That will never change.
10. Investing time in thinking is undervalued.