

Evaluation of in vitro immunotoxicity tests using transcriptomics

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Propositions

1. The mouse CTLL-2 and the EL-4 cell lines do not yield an added value over the human Jurkat T cell line in immunotoxicity screenings (this thesis).
2. Toxicogenomics is a useful tool to compare and evaluate possible modes of actions of compounds (this thesis).
3. A limited set of biomarkers can be used to screen for human immunotoxicity (this thesis).
4. The best way to exploit the good prediction of biomarkers in human Jurkat T cells, is to combine this assay with screenings in other immune cell types (this thesis).
5. Organ-on-a-chip techniques will accelerate the understanding of the human body using *in vitro* models, however, this will not easily be achieved for immunotoxicity.
6. Without programmed cell death, all multicellular life would be impossible (Philip Bell).
7. One way to speed up the process for approving alternative test methods is to ban all animal tests.
8. Negative results are just as valuable as positive results. You can never find the thing that does the job best until you find the ones that don't (Thomas A. Edison).
9. Doubt is a scientist's greatest feature.
10. Sitting for prolonged periods of time can be seen as the new smoking.