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3D liver models in tissue engineering and toxicology

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2016

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Starokozhko, V. (2016). *3D liver models in tissue engineering and toxicology*. University of Groningen.

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Stellingen



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3D Liver Models in Tissue Engineering and Toxicology

Viktorii Starokozhko

1. As with the artist, the job of the scientist is to deepen the mystery (adapted from Francis Bacon).
2. The words of Michelangelo “I saw the angel in the marble and carved until I set him free” are a guide to any scientist: when you have an idea, work hard to bring it to life.
3. A bioartificial liver based on human induced pluripotent stem cells has great potential to be used in the clinic or in the drug-development process in the near future.
4. Building a bioartificial liver without non-parenchymal cells is like building a brickhouse without cement: it will not last long.
5. If you do not understand your model, you cannot interpret your data.
6. Enriched media can greatly prolong functionality of liver slices. However, the absence of information on the composition of these media hinders scientific progress.
7. Exploring your experimental model is like exploring the universe: you always discover something new.
8. Bile salt export pump inhibition and the resulting increase in intracellular concentration of total bile acids might not be the only major player in the development of cholestatic liver injury.
9. The quality of a publication is not always the most decisive argument for its acceptance.
10. As with an artist, a good scientist has less time than ideas (adapted from Martin Kippenberger).
11. In Ukrainian, the phrase “As you sow, so shall you reap” reminds us that there are consequences associated with how we work and live. These words can also be applied to science: plan good experiments and you will get good data.
12. Do not be afraid to make mistakes: every top scientist was first an amateur.
13. When you have all the answers, the questions change (adapted from Paulo Coelho).