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Universiteit Leiden



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Title: Cancer and glioma : an integrated approach of gene therapy and bioluminescence imaging

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STELLINGEN BEHOREND BIJ HET PROEFSCHRIFT GLIOMA AND CANCER - SARAH BOVENBERG, 27 MEI 2014

SPECIFIEK

1. The secreted blood reporters Gaussia Luciferase (GLUC), Vargulla Hilgendorffii (VLUC) and Secreted Alkanine Phosphatase (SEAP) can be used simultaneously to non-invasively monitor multiple biological parameters in the same experimental animal, thereby enhancing understanding of tumor response to therapy, while reducing the number of test animals required. (*This thesis*)

2. Adeno-associated virus (AAV) mediated delivery of soluble tumor necrosis factor-related apoptosis-inducing ligand (sTRAIL) to the healthy brain tissue can be used to create a zone of resistance around brain tumor tissue to minimize metastasis. (*This thesis + CA Maguire, MolTher. 2008; 16(10)1695-1702:*)

3. Specific mutations in Gaussia Luciferase's first active domain (L30S, L40P M43V) dramatically increase signal stability and make Gaussia more suitable for high throughput applications. (*This thesis*)

4. Stem cells may be superior to viral vectors as vehicles to deliver therapeutic agents to the brain. (*This thesis + A. Ahmed, Expert Rev Neurother. 2011; 11(6):1-3*)

VAKGEBIED

5. The NSA may be held responsible for the comeback of the famous, illegible doctor's scribble as electronic privacy protection appears to be an illusion.

6. In a time when we're comfortable with sharing every aspect of our personal lives freely on the internet, it would greatly benefit science if we would adapt the same attitude towards our research data.

7. The scientific community should DREAM more.

8. The fact that we can put a man on the moon but cannot find a cure for brain cancer, shows that the expression 'it's not brain surgery' to describe a doable task has more validity than 'it's not rocket science.'

ALGEMEEN

9. An expert is a person who has made all the mistakes that can be made in a very narrow field.

- *Niels Bohr, Danish physicist and Nobel prize winner in Physics for foundational contributions to understanding atomic structure and quantum theory.*

10. Perfection is not when there is no more to add, but no more to take away.
- *Antoine de Saint-Exupery, author of Le Petit Prince*

11. Nothing is impossible; the word itself says 'I'm possible.'
- *Audrey Hepburn*

12. Women are the largest untapped reservoir of talent in the world.
- *Hillary Clinton*