

Exploring the benefits of inhibiting HIF and Notch to overcome resistance to cancer therapy

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Propositions

Belonging to the thesis entitled:

“Exploring the benefits of inhibiting HIF and Notch to overcome resistance to cancer therapy”

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Maastricht 2018

1. Specific inhibition of HIF-1a and/or HIF-2a contribute to relevant changes in several cellular properties which are crucial for the maintenance and regulation of many tumorigenic characteristics of non-small cell like cancer (NSCLC) cells (*this thesis*).
2. Our findings suggest a new promising use for Notch inhibitors as modulators of the response to DNA damage which in consequence would benefit the regenerative capacity of tissues subjected to irradiation (*this thesis*).
3. Understanding the involvement of the different gamma-secretase subunit organization in Notch processing may help to develop novel gamma-secretase inhibitors specifically aiming to one disease-related substrate, while sparing the other physiological substrates (*this thesis*).
4. Many biomarkers have been already identified to strategy patients for personalized treatment. Since many cancer patients receive radiation treatment, approaches that influence radiation therapy have a great impact on the outcome of the disease (*Valorization*).
5. “Unlike other diseases, the vulnerability to cancer lies in ourselves. We always thought of disease as exogenous, but research into cancer has turned that idea on its head - as long as we live, grow, age, there will be cancer” (*Siddhartha Mukherjee*).
6. “Every cancer looks different. Every cancer has similarities to other cancers. And we're trying to milk those differences and similarities to do a better job of predicting how things are going to work out and making new drugs” (*Harold. E. Varmus*).
7. “Cancer is like the common cold; there are so many different types. In the future we'll still have cancer, but we'll detect it very, very early, so that it won't kill anybody. We'll zap it at the molecular level decades before it grows into a tumor” (*Michio Kaku*).
8. “Right now, I am trying to be in a place of calm, a place where I can chill out and then handle the chaos of life better. You don't just get it overnight; you have to work at it. It's a daily struggle” (*Jackee Harry*).
9. “Develop a passion for learning. If you do, you will never cease to grow” (*Anthony J. D'Angelo*).
10. “Our greatest glory is not in never falling, but in rising every time we fall” (*Confucius*).