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MECHANISM OF ACTION OF STATINS IN COLORECTAL CANCER

1. For any drug used for chemoprevention the risk/benefit ratio should be assessed carefully, especially when administered to healthy individuals. (this thesis)
2. Colorectal cancer is not one disease but a heterogeneous group of diseases with different underlying molecular mechanisms. It is likely that both prevention and therapy will need to be tailored to the molecular subtype of the cancer in question. (this thesis)
3. Statin use confers a significant reduction in the risk of colorectal cancers that expresses SMAD4, whereas statin use has no influence on tumors with weak or absent expression of SMAD4. (this thesis)
4. Statins are able to influence colorectal cancer cells at different levels from the level of BMP receptor expression and receptor cycling, effects on the entire kinome in cancer cells, to epigenetic changes via its ability to alter gene promoter methylation. (this thesis)
5. Statins present a very interesting and favorable agent for use in a chemopreventive or adjuvant setting in CRC. (this thesis)
6. Undetectable micro metastasis is the major hurdle in challenging with CRC. (Naumov I, Arber N; Exp Cell Res. 2012 Jan 15;318(2):160-8)
7. Apoptosis is an altruistic response in which cells die, rather than expose the organism to the cancer risk of incompletely repaired genetic damage. (C.S. Potten; Stem cells: the intestinal stem cell as a paradigm; Carcinogenesis. 2000 Mar;21(3):469-76)
8. Voor darmkanker is in verschillende Nederlandse proef-bevolkingsonderzoeken bewezen dat screening veel gezondheidswinst kan opleveren. (Landelijke Nota Gezondheidsbeleid 2011 – minister van volksgezondheid, welzijn en sport)
9. Iedere maatschappij die rijker wordt ziet steeds meer ziekte van Crohn. Een diagnose met de ziekte van Crohn is voor de patiënt slecht nieuws, maar voor het land is het goed nieuws (oratie prof. dr. M.P. Peppelenbosch; 2011)
10. There should be universal health care for everyone. (Stephen Hawking)
11. Anyone who has never made a mistake has never tried anything new. (Albert Einstein)
12. When someone gets sad, they should stop being sad and be awesome instead.. (Barney Stinson)

“Life is short, break the rules, forgive quickly, kiss slowly, love truly, laugh uncontrollably, and never regret anything that made you smile. Twenty years from now you will be more disappointed by the things you didn't do than by the ones you did. So throw off the bowlines. Sail away from the safe harbor. Catch the trade winds in your sails. Explore. Dream. Discover.”

(Mark Twain)