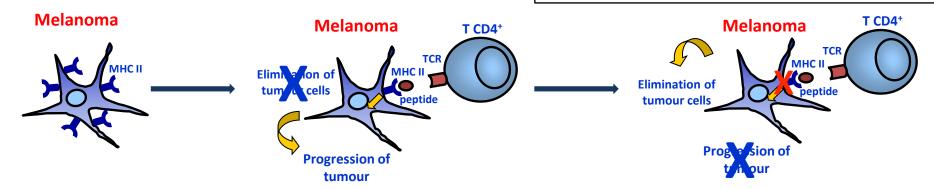


F. Costantini, G. Barbieri. Cell. Sign., 36, 2017, 189-203.

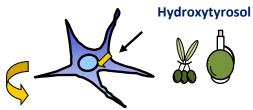
Constitutive expression of MHC class II in melanoma is associated to bad prognosis.

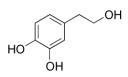
Targeting HLA-DR mediated signalling could inhibit melanoma progression and immune escape.



Natural and synthetic molecules to inhibit the cellular growth.

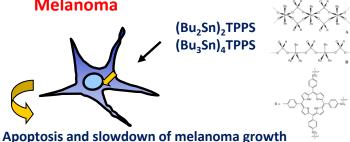
Melanoma







(Bu₂Sn)₂TPPS (Bu₃Sn)₄TPPS



Apoptosis and increase of ROS

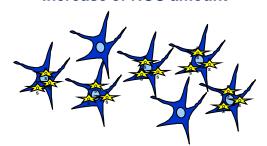
The cleavage of PARP-1 and the increased expression of γH2AX elicit the hypothesis that Hydroxytyrosol induces **DNA** double strand breaks damage.





(Bu₂Sn)₂TPPS and (Bu₃Sn)₄TPPS bypass **BRAF** functions. mainly targeting **STAT3** signalling protein.

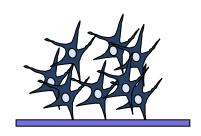
Increase of ROS amount







Inhibition of cell migration



F. Costantini, C. Di Sano, G. Barbieri. Int. J. Mol. Sci., 2020, 21, 8074.

The lack of toxicity at high concentrations, the ability to inhibit growth, proliferation and invasiveness cancer cells. makes hydroxytyrosol a promising therapeutic option for the treatment of melanoma.



F. Costantini, F. Di Leo, C. Di Sano, T. Fiore, C. Pellerito, G. Barbieri. Cells, 2019, 8, 1547.

(Bu₂Sn)₂TPPS and (Bu₃Sn)₄TPPS for their role in the regression of the growth and melanoma migration, deeply interfere with the melanoma progression as new strategies for an effective treatment of this highly invasive tumour.