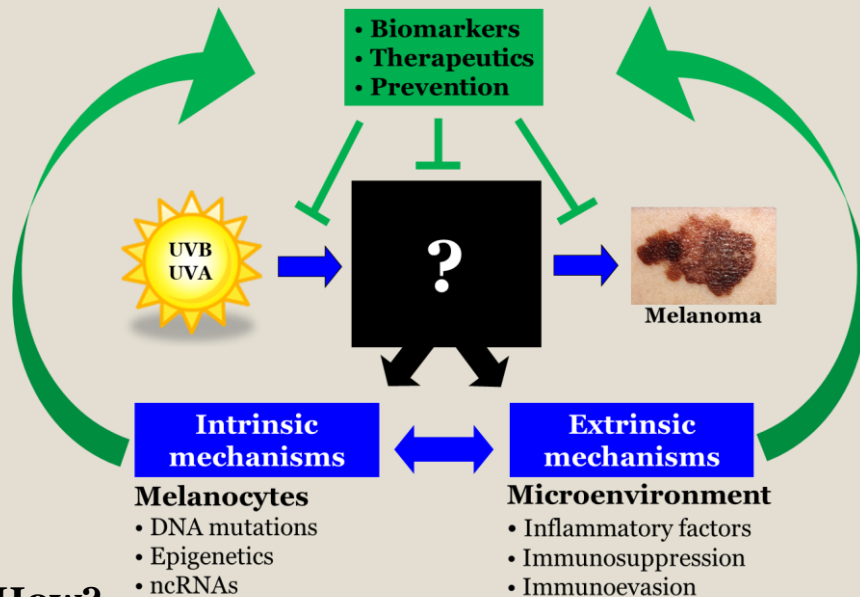


Deciphering the Molecular Mechanisms of Melanoma Initiation

Why?

- Melanoma is the deadliest type of skin cancer and is rapidly rising in incidence
- 85% of melanomas are caused by UV radiation
- The molecular mechanisms by which UV induced melanoma are largely unknown



How?

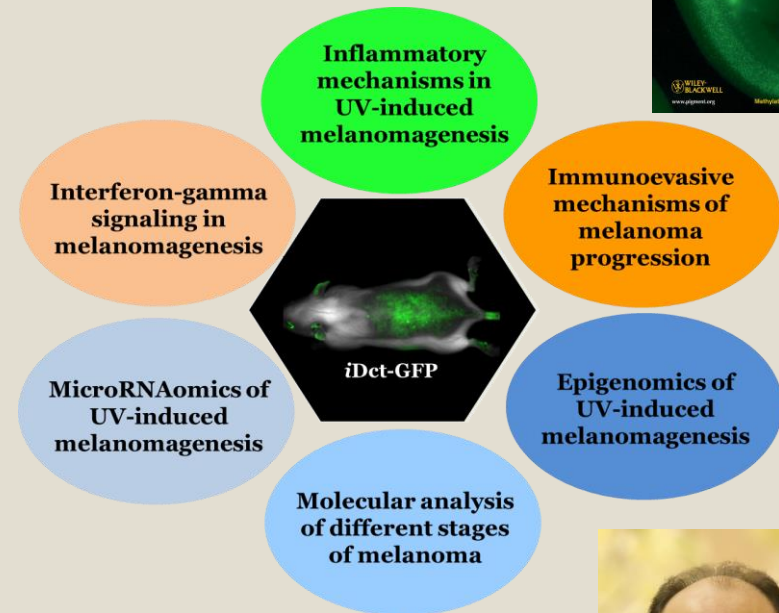
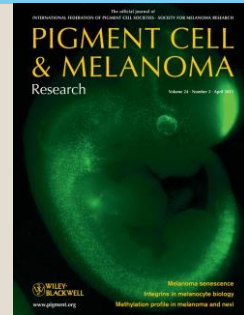
- We use mouse models of UV-induced melanomagenesis to investigate the genes and pathways that play causative roles in the initiation and progression of melanoma
- High-throughput genomics, epigenomics, and proteomics methodologies are being used to discover novel mechanisms involved in melanomagenesis

Relevant publications

- Mo et al. *Cancer Research* 78:436 (2018)
- Zaidi et al. *Nature* 469:548 (2011)
- Zaidi et al. *Cancer Research* 72:1591 (2012)

Recent Funding

- National Cancer Institute/NIH
- US Department of Defense
- Melanoma Research Foundation



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