Epigenetics of Colorectal carcinoma and Precision oncology

Colorectal carcinoma represents a heterogeneous entity, with only a fraction of the tumours responding to available therapies, requiring a better molecular understanding of the disease in precision oncology[1](#_ENREF_1).

DNA methylation significantly related with the environment. For example, twins study on the methylation research on NASA astronaut Scott and Mark shown spaceflight will decrease the DNA methylation level and it will be recovered after the astronaut return to earth.

1. Schutte, M. *et al.* Molecular dissection of colorectal cancer in pre-clinical models identifies biomarkers predicting sensitivity to EGFR inhibitors. *Nat Commun* **8**, 14262 (2017).