



A Genetically and Histologically Accurate Mouse Model of Basal Cell Carcinoma

TECHNOLOGY NUMBER: 2020-294



INNOVATION

In human basal cell carcinomas (BCC), mutations in the Hedgehog pathway (most commonly, loss of the tumor suppressor PTCH1) and NOTCH1 are commonly seen. These mice contain mutation deleting both of these genes simultaneously in hair follicle stem cells in the skin. Importantly, formation of palpable BCCs that resemble human tumors histologically have been observed in these mice. Thus, for the first time, a "second generation," immunocompetent mouse tumor model that both mimics the genetics and morphology of human BCC has been created.

Technology ID

2020-294

Category

Research Tools and Reagents

Inventor

Markus Eberl

Kenneth Trieu

Sunny Wong

Further information

Emily Bowers

bowersea@umich.edu

Learn more

