Atat1 is a tubulin acetyltransferase knockout mice that lack the tubulin acetylation are not able to perceive mechanical pain however, proprioception and the response to thermal pain remain unaffected the absence of mechanical pain in the knockout lines is related to a reduced mechanotransduction caused by stiffer neuronal membranes due to the lack of tubulin acetylation

Atat1 is a new target for the development of analgesics

Challenge
- neuropathic pain afflicts millions of people worldwide
- the condition reduces the patients’ overall health-related quality of life
- only 40-60% of the patients experience relief after pharmacological therapy
- there is an unmet need for novel analgesics to treat neuropathic pain

Commercial Opportunity
- collaboration opportunities
- licensing opportunities

Technology
- Atat1 is a tubulin acetyltransferase
- knockout mice that lack the tubulin acetylation are not able to perceive mechanical pain
- however, proprioception and the response to thermal pain remain unaffected
- the absence of mechanical pain in the knockout lines is related to a reduced mechanotransduction caused by stiffer neuronal membranes due to the lack of tubulin acetylation

Contact
Dr. Jürgen Bauer, bauer@embl-em.de

Key Inventors
Paul Heppenstall, EMBL Monterotondo

Intellectual Property
EP priority application submitted January 2016