Preliminary Small Molecule-mediated Protein Heterodimerization

Tech ID: 25565 / UC Case 2016-046-0

INVENTION NOVELTY

This technology provides a novel method to effectively modulate protein heterodimerization in a cell by utilizing small molecules.

TECHNOLOGY DESCRIPTION

Researchers at University of California, San Francisco have developed a method of regulated protein heterodimerization that utilizes components from an inducible transcriptional regulatory complex. Heterodimerizer modules can provide a potential way to control engineered cell activity, but there are no FDA approved heterodimerizer drugs yet. The presented technology may address this unmet need; however, this novel invention will still need some scientific and commercial validation with a goal of bringing it to market.

APPLICATION

- Potentially control synthetic receptors, signaling molecules, and other molecules in response to the cognate small molecules
- May be used for regulating activity of engineered therapeutic cells

STAGE OF DEVELOPMENT

Proof of concept

DATA AVAILABILITY

Under CDA/NDA

IP STATUS

Pending

PATENT STATUS

Country	Type	Number	Dated	Case
Israel	Issued Patent	259514	05/02/2023	2016-046
Hong Kong	Issued Patent	HK40000445	03/31/2023	2016-046
Mexico	Issued Patent	399964	02/08/2023	2016-046
United States Of America	Issued Patent	11,136,562	10/05/2021	2016-046
Hong Kong	Published Application	40000578	02/14/2020	2016-046
India	Published Application	37/2018	09/14/2018	2016-046
Eurasian Patent Office	Published Application			2016-046

CONTACT

Todd M. Pazdera

todd.pazdera@ucsf.edu

tel: 415-502-1636.

OTHER INFORMATION

KEYWORDS

Small molecule, Protein heterodimerization

CATEGORIZED AS

- Medical
  - Therapeutics

RELATED CASES

2016-046-0

Additional Patents Pending

OTHER INFORMATION

Unpublished at this time

ADDRESS

UCSF

Innovation Ventures

600 16th St, Genentech Hall, S-272,

San Francisco,CA 94158

CONTACT

Tel:

innovation@ucsf.edu

https://innovation.ucsf.edu

Fax:

CONNECT

Follow Connect