FLUORESCENT BIS-TRIFLUOROMETHYL CARBORHODAMINE COMPOUNDS

Tech ID: 33587 / UC Case 2024-143-0

PATENT STATUS

Country	Type	Number	Dated	Case
Patent Cooperation Treaty	Published Application	WO 2026/050410	03/05/2026	2024-143

BRIEF DESCRIPTION

UCB researchers have developed a novel class of bright, fluorescent rhodamine dyes with a novel structural modification resulting in a deep red shift relative to the parent carborhodamine dye, with the new dye absorbing and emitting near-infrared light in the same region as the commercially successful silicon rhodamine dyes. Biological imaging with near-infrared light is advantageous for numerous biological and surgical applications.

Furthermore, bis-trifluoromethyl carborhodamines offer improved properties desirable for biological imaging applications due to their unique physical and electronic properties.

SUGGESTED USES

» Biological imaging with near-infrared light

CONTACT

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INVENTORS

» Miller, Evan W.

OTHER INFORMATION

CATEGORIZED AS

» **Imaging**
» Medical
» Other
» **Medical**
» Imaging
» **Research Tools**
» Reagents

RELATED CASES

2024-143-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

▶ Long Wavelength Voltage Sensitive Dyes
▶ Voltage-Sensitive Fluorescent (VF) Dyes For Neuronal Imaging
▶ FLUORESCENT PROBES AND USES THEREOF
▶ PHOTO-INDUCED ELECTRON TRANSFER VOLTAGE SENSITIVE DYES

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