Upgrading Cyanines dyes: Non-Kekulé ketocyanines and related patterns

Fact Sheet

Project Information

KETOCYAN
Grant agreement ID: 892162

Funded under
EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost
€ 184 707.84

EU contribution
€ 184 707.84

Project terminated on 31 December 2021

Coordinated by
UNIVERSITE GRENOBLE ALPES
France

Start date
1 August 2020

End date
31 July 2022

Project description

A radical paradigm shift in the field of organic dyes

The electron configuration of a molecule determines its structure and reactivity. Organic molecules with unpaired electrons are typically highly reactive species with short lifetimes and very interesting physicochemical properties. Among them, diradicaloids have been the focus of growing attention, particularly for advanced applications in molecular electronics and spintronics. The EU-funded KETOCYAN project is opening the door to the possibilities offered by a novel class of diradicaloids called non-Kekulé ketocyanines. Their peculiar structures suggest unusual and potentially commercially useful properties. However, they have been considered as
synthetically non-viable targets. Building on recent successes in the host lab, scientists plan to synthesise and characterise such novel cyanines with potential impact in the fields of optoelectronics and photoredox chemistry.

**Fields of science**

natural sciences > chemical sciences > **electrochemistry**

natural sciences > chemical sciences > **organic chemistry**

natural sciences > mathematics > pure mathematics > **topology**

**Keywords**

KETOCYAN

**Programme(s)**

H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility

**Topic(s)**

MSCA-IF-2019 - Individual Fellowships

**Call for proposal**

H2020-MSCA-IF-2019

See other projects for this call

**Funding Scheme**

MSCA-IF - Marie Skłodowska-Curie Individual Fellowships (IF)

**Coordinator**
UNIVERSITE GRENOBLE ALPES

Net EU contribution
€ 184 707,84

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Region
Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

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