

Environmental Science: Advances

GOLD
OPEN
ACCESS

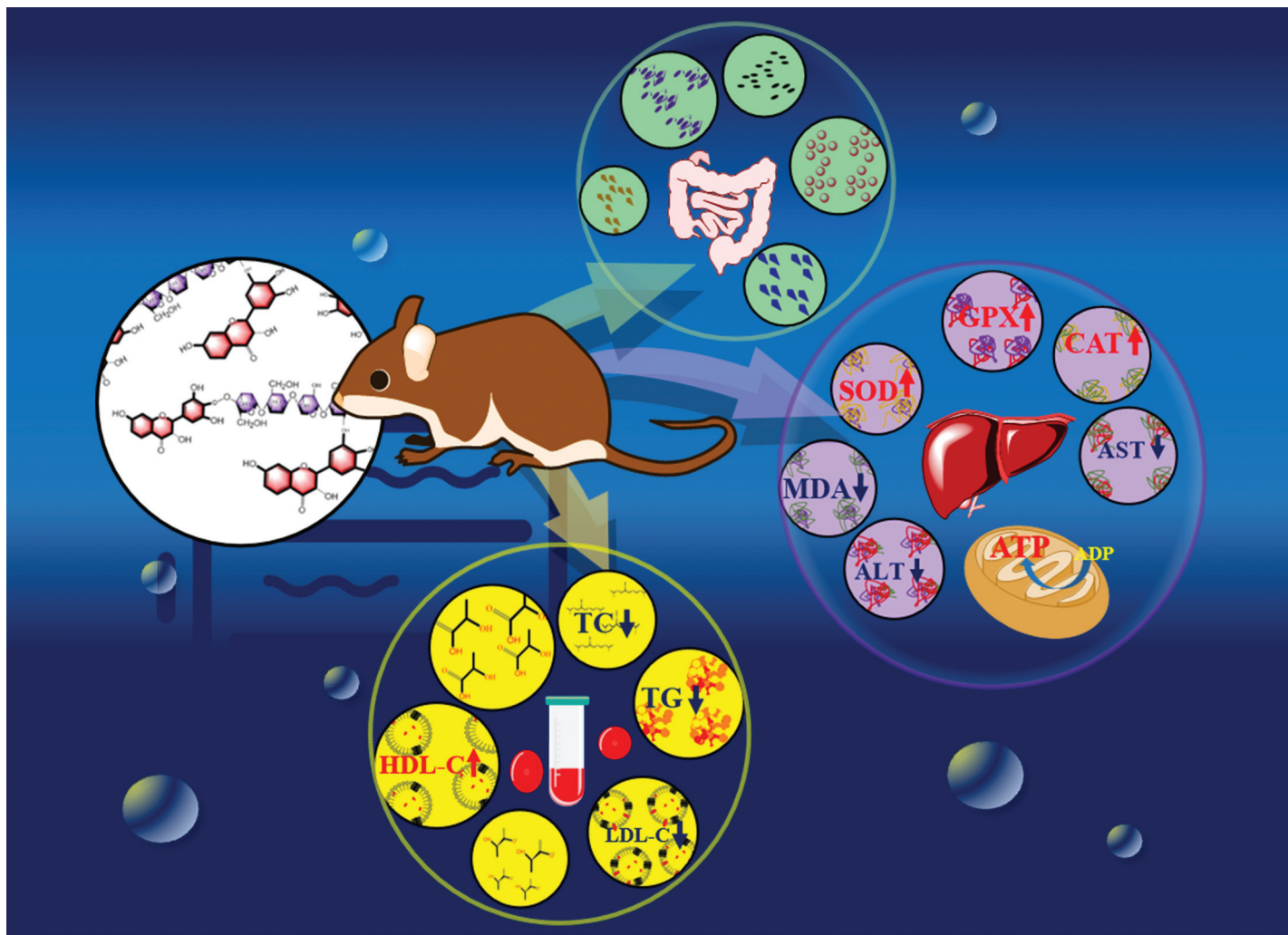
Uniting disciplines to solve
environmental challenges

APCs waived until mid-2024

rsc.li/esadvances

 @EnvSciRSC

Fundamental questions
Elemental answers



Showcasing research from Associated Professor
Jing Tian's laboratory, College of Food Science and
Technology, Huazhong Agricultural University, Wuhan,
China.

The synergistic effects and mechanism of KGM-DMY complex
in the prevention of obesity and enhancement of fatigue
resistance in mice

The konjac glucomannan (KGM)-dihydromyricetin (DMY)
complex showed synergistic effects on the reduction of
serum triglyceride, total glycerol content in high-fat-diet-
fed mice and extension of time to exhausting swimming
in normal-chow-fed mice. The synergistically enhanced
antioxidant enzymes activities, ATP conversion and
modulation of gut microbiota abundances contributed to the
synergic effects of KGM-DMY on lipid metabolism regulation
and fatigue resistance enhancement.

As featured in:



See Jing Tian *et al.*, *Food Funct.*,
2023, **14**, 2607.