

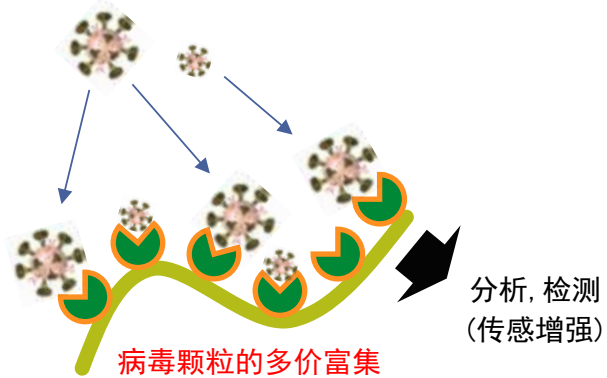
# 对抗SARS-CoV-2的抗病毒凝集素 GRFT(Griffithsin)

## Recombinant *Griffithsia sp. lectin* (= rGRFT)

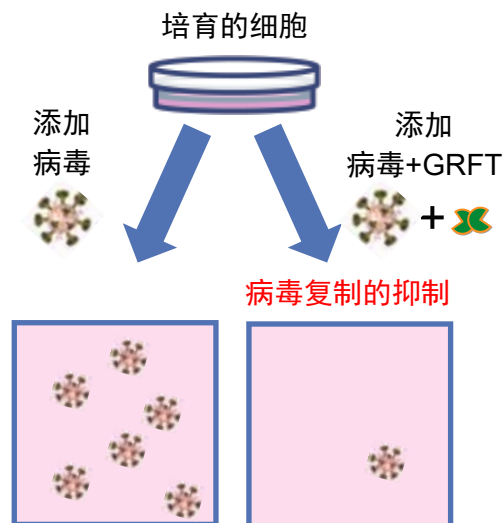
GRFT (Griffithsin) 来源于红藻，是一种抗病毒凝集素(聚糖结合蛋白)，有望用来对抗HIV等致病病毒。最近，据报道，GRFT对SARS-CoV-2具有多种抗病毒作用。TCI可大量供应重组GRFT。



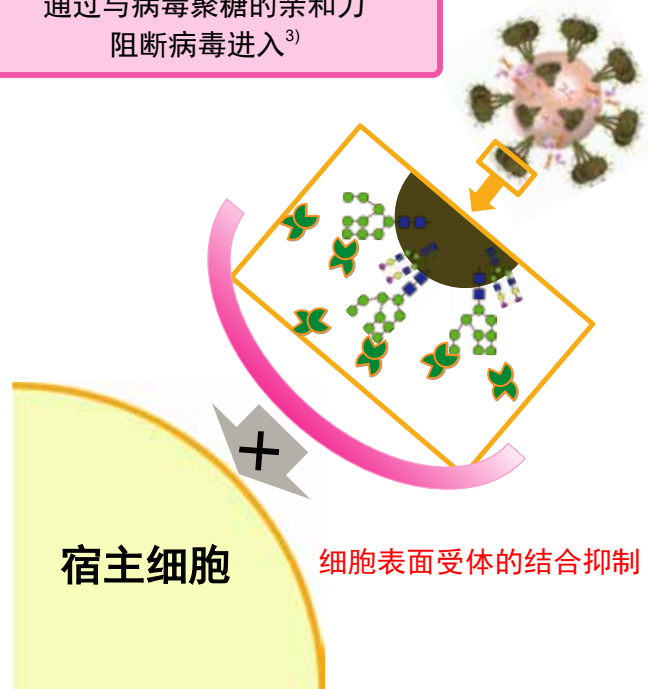
通过多价固定来  
捕获病毒颗粒<sup>1)</sup>(富集)



在共培养中抑制病毒生长<sup>2)</sup>



通过与病毒聚糖的亲合力  
阻断病毒进入<sup>3)</sup>



参考文献

- 1) G. Özkul *et al.*, *Adv. Mater. Interfaces* **2022**, 13, 2201126.
- 2) S. Alsaidi *et al.*, *Mar. Drugs* **2021**, 19, 418.
- 3) R.E. Ahan *et al.*, *ACS Infect. Dis.* **2022**, 8, 1253.

# 对抗SARS-CoV-2的抗病毒凝集素GRFT(Griffithsin)

## 修饰的GRFT

### Agarose-immobilized GRFT

rGRFT-LecBeads [for Man $\alpha$ (1-2)Man] 1mL/vial [R0239]

### Biotinylated GRFT

rGRFT-Biotin [for Man $\alpha$ (1-2)Man] 1mL/vial [R0234]

## 凝集素(聚糖结合蛋白)

### LecBeads (Lectin-agarose)

rPSL1a-LecBeads [for Sia $\alpha$ (2-6)Gal] 1mL/vial [R0235]

rLSL-N-LecBeads [for Gal $\beta$ (1-4)GlcNAc, poly LacNAc] 1mL/vial [R0236]

rMOA-LecBeads [for Gal $\alpha$ (1-3)Gal] 1mL/vial [R0237]

rSRL-LecBeads [for GlcNAc $\beta$ (1-2)Man, Gal $\beta$ (1-3)GalNAc] 1mL/vial [R0238]

AOL-LecBeads [for Fuca(1-6)/ $\alpha$ (1-4)/ $\alpha$ (1-3)/ $\alpha$ (1-2)] 1mL/vial [A3331]

R0235、R0236、R0237、R0238、R0239是与日本产业技术综合研究所(AIST)合作开发的。

### Biotinylated Lectins

rPSL1a-Biotin [for Sia $\alpha$ (2-6)Gal] 1mL/vial [R0230]

rLSL-N-Biotin [for Gal $\beta$ (1-4)GlcNAc, poly LacNAc] 1mL/vial [R0231]

rMOA-Biotin [for Gal $\alpha$ (1-3)Gal] 1mL/vial [R0232]

rSRL-Biotin [for GlcNAc $\beta$ (1-2)Man, Gal $\beta$ (1-3)GalNAc] 1mL/vial [R0233]

AOL-Biotin Conjugate 1mL/vial [A2659]

### Lectins (Unmodified Lectin)

Recombinant *Polyporus squamosus* lectin (= rPSL1a) expressed in *Escherichia coli* 1mL/vial [R0225]

Recombinant *Laetiporus sulphureus* lectin N-Terminal Domain (= rLSL-N) expressed in *Escherichia coli* 1mL/vial [R0226]

Recombinant *Marasmius oreades* agglutinin (= rMOA) expressed in *Escherichia coli* 1mL/vial [R0227]

Recombinant *Sclerotium rolfisii* lectin (= rSRL) expressed in *Escherichia coli* 1mL/vial [R0228]

Lectin, Fucose specific (= AOL) from *Aspergillus oryzae* 1mL/vial [L0169]

R0225、R0226、R0227、R0228、R0229在日本产业技术综合研究所(AIST)的许可下实现商业化。

L0169是在与GEKKEIKAN SAKE COMPANY, LTD.的技术合作下销售的。