

## Supporting Information for

### ORIGINAL ARTICLE

## Glycoside scutellarin enhanced CD-MOF anchoring for laryngeal delivery

Kena Zhao<sup>a,b,†</sup>, Tao Guo<sup>b,†</sup>, Caifen Wang<sup>b,†</sup>, Yong Zhou<sup>b,d</sup>, Ting Xiong<sup>b,d</sup>, Li Wu<sup>b</sup>, Xue Li<sup>e</sup>, Priyanka Mittal<sup>b,f</sup>, Senlin Shi<sup>a,\*</sup>, Ruxandra Gref<sup>e,\*</sup>, Jiwen Zhang<sup>b,c,d,f,\*</sup>

<sup>a</sup>*College of Pharmaceutical Sciences, Zhejiang Chinese Medical University, Hangzhou 311402, China*

<sup>b</sup>*Center for Drug Delivery System, Shanghai Institute of Materia Medica, State Key Laboratory of Drug Research, Chinese Academy of Sciences, Shanghai 201203, China*

<sup>c</sup>*NMPA Key Laboratory for Quality Research and Evaluation of Pharmaceutical Excipients, National Institutes for Food and Drug Control, Beijing 100050, China*

<sup>d</sup>*Key Laboratory of Modern Chinese Medicine Preparations, Ministry of Education, Jiangxi University of Traditional Chinese Medicine, Nanchang 330004, China*

<sup>e</sup>*Université Paris-Saclay, CNRS 8214, Institut des Sciences Moléculaires d'Orsay, Orsay 91405, France*

<sup>f</sup>*University of Chinese Academy of Sciences, Beijing 100049, China*

Received 8 March 2020; received in revised form 3 April 2020; accepted 16 April 2020

<sup>†</sup>The authors made equal contributions to this work.

<sup>\*</sup>**Corresponding authors.** Tel./fax: +86 571 86613524 (Senlin Shi); +86 21 50805901 (Jiwen Zhang).

E-mail addresses: pjstone@163.com (Senlin Shi), ruxandra.gref@u-psud.fr (Ruxandra Gref), jwzhang@simm.ac.cn (Jiwen Zhang).

Running title: Glycoside scutellarin enhanced CD-MOF anchoring for laryngeal delivery

**Table S1** The emptying rate of SCU@CD-MOF (*n*=10).

Number	Empty capsule weight (mg)	Capsule weight after filling (mg)	Capsule weight after NGI (mg)	Emptying rate (%)		
				Result	Average	SD
1	47.10	57.21	47.23	98.71	98.56	0.30
2	48.53	58.49	48.72	98.09		
3	47.48	57.42	47.62	98.59		
4	48.95	59.09	49.13	98.22		
5	46.74	56.42	46.84	98.97		
6	49.04	59.00	49.18	98.59		
7	46.84	56.63	46.97	98.67		
8	46.86	56.60	47.04	98.15		
9	47.45	57.22	47.56	98.87		
10	47.28	57.25	47.41	98.70		