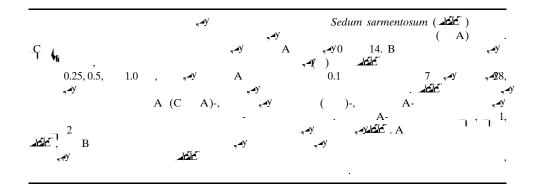
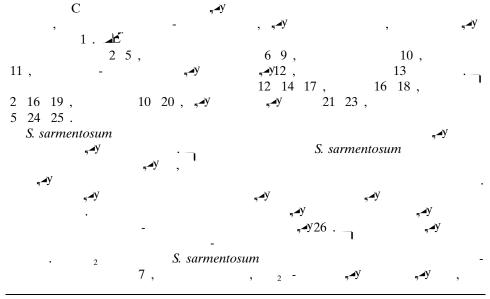
Immunosuppressive Activity of the Ethanol Extract of Sedum sarmentosum and Its Fractions on Specific Antibody and Cellular Responses to Ovalbumin in Mice

,-Feng Qin)) Hong-Xiang Sun*)

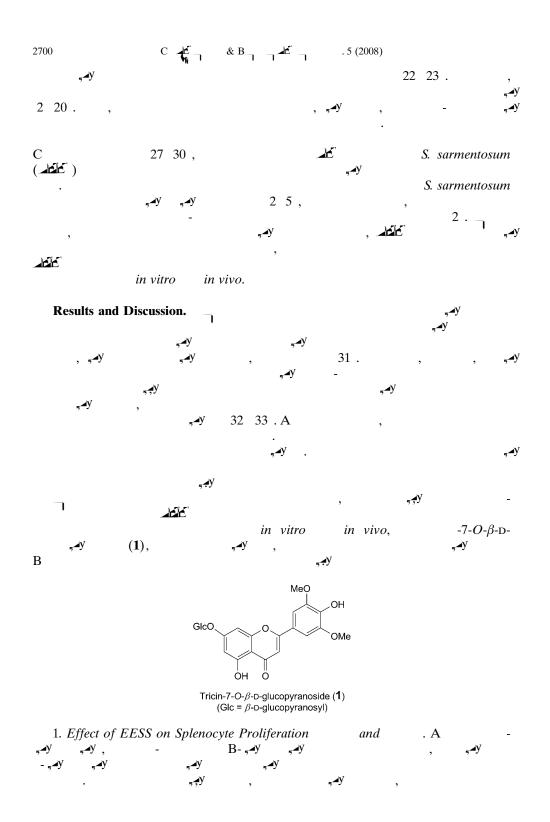
) C		Α	,Z	,, ,y	310029, C
(:	86-571-	869-71091; :	86-571-869-71091; -	: @)
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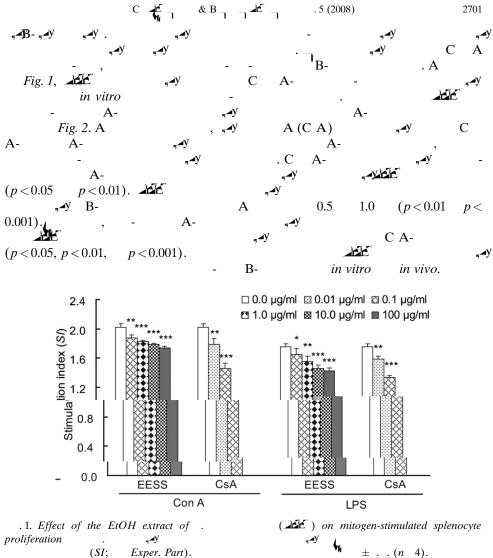


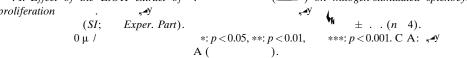
Introduction. Sedum sarmentosum BUNGE (C) -



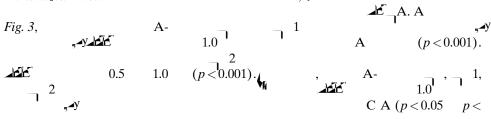
© 2008 C A A , Z

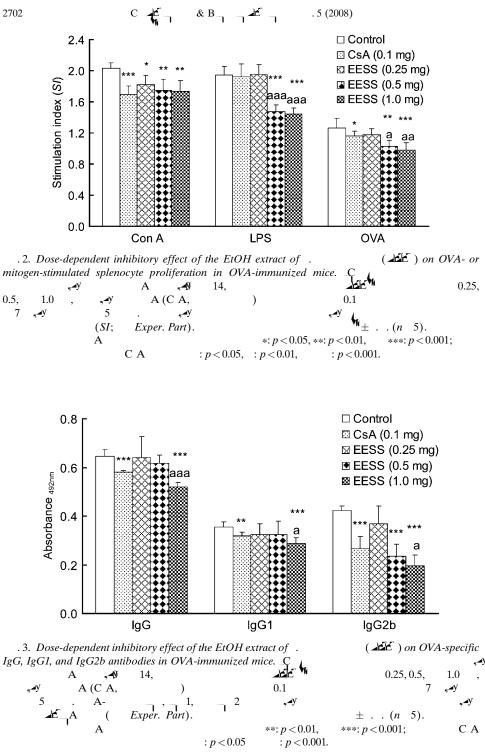


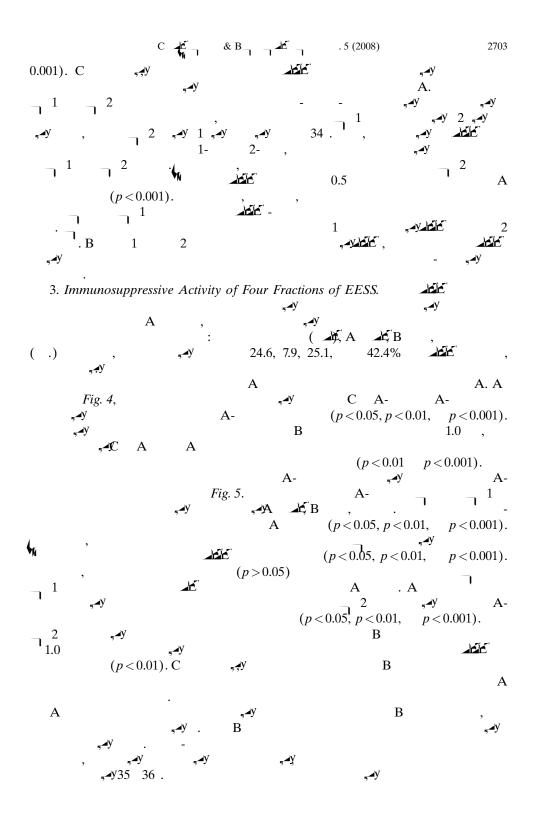


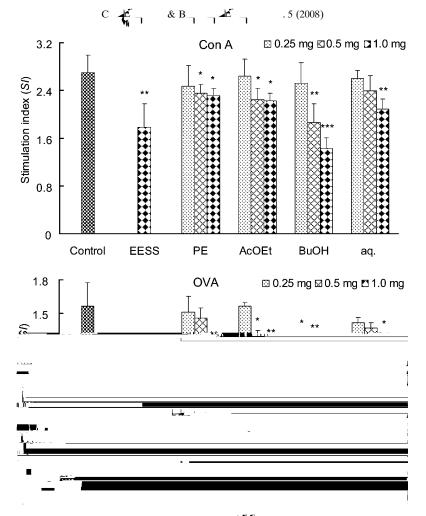


2. Effect of EESS on the OVA-Specific Serum Antibody Response in OVA-Immunized Mice. A-A-"⊿у



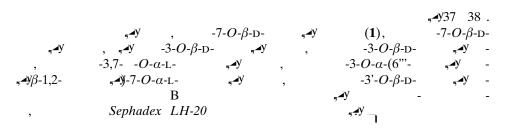




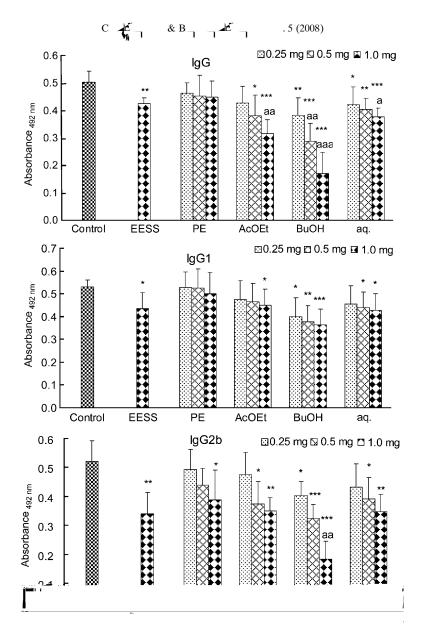


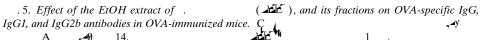
. 4. Effect of the EtOH extract of . (25%), and its fractions on Con A- and OVAstimulated splenocyte proliferation in OVA-immunized mice. C_{A}

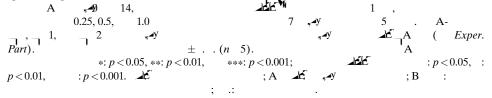
A ,-10 14,		1 ,
0.25, 0.5, 1.0	7 , -y	5. " -y
·	$(n \ 5).$	(SI; Exper. Part). A
*: <i>p</i> < 0.05, **: <i>p</i> < 0.01,	***: <i>p</i> < 0.001.	; A 🚣 🚚
; B	: ; .:	

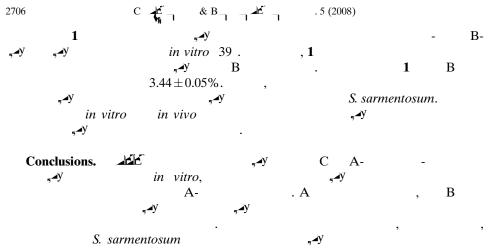


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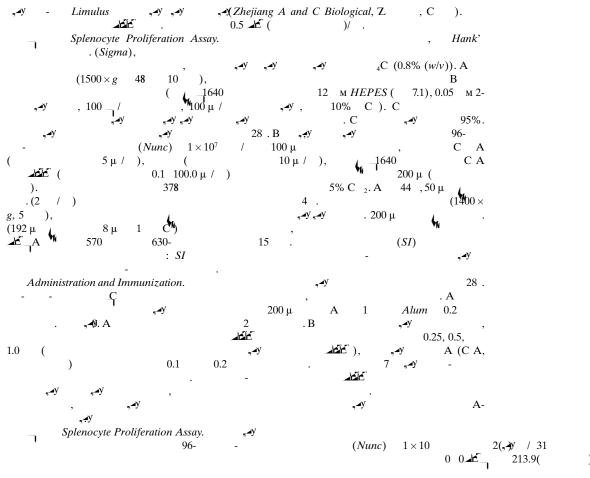
С

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Experimental Part

,⊿y General. (A), 3-(4,5--2-**,-1)**-2,5-**,**⊿¥2H--1640 (), <u>-1640</u> Sigma Chemical Co. (A), (), A(C A),**,**⊿y ר ² 1 Southern Biotech. Assoc. (B Α, ☐ Â), (C) *"Hangzhou Sijiqing Corp.*, Zhejiang Wanma Pharm Co. Ltd, 🖋 A (C A, (A) ,-Hangzhou Huadong Medicine Co. Ltd, Z , C . xperimental Animals. -C (_n⁵) 18 22 Experimental Animals. C (15Zhejiang Experimental Animal Center (C . 22-2001001, , C) **,**⊿y 1 ad libitum, . **,⊿**y 50±10%, $. 24 \pm 18$, 12-/12-,⊿у.А . . C Ay Institute for Experimental Animals **"**⊿ÿ **,**⊿y **,**⊿y Z _**⊿**y Plant Material. Sedum sarmentosum BUNGE ,Z , C , **, ,2**004. A (. 20040612) ,Z **,**⊿y Laboratory of Nature Drug, C А **, "**УС . Xiang-Ji Xue C ,Z **,**≁y Preparation and Analysis of Extract. S. sarmentosum 408 _⊿y (3) 70% 上 $(1700 \times g, 30)$ 2 . A). 458 ⊿y ca. 157.15 5.24% (w/w)). (**add** ; **,** 4y , AC (🛋 , A В **,**⊿y Ì.⊿É **,**⊿y .**▲C**, B ķΆ В 0.22-µ Millipore **,**⊿y C. 4 Symmetry[®] C18 (250 1 В × 5μ), . ., / 2 35:65 4.6 Waters 2996 PDA Water 600E С 10 / Α. 0.89% **,**⊿y .

. **5-**Υ 0.22-μ Millipore , **5-**Υ



- 222)-451.9()- Statistical Analysis.

± . ., *Student*' *t*- , p < 0.05

Zhejiang Provincial Science and Technology Council (. **"**⊿y 2004 13 1360002)

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- , Z., . , J. Tradit. Chin. Vet. Med. 2006, 6, 33. 1
- A. , .- . , .-C. Z ,^C . . , *Phytochemistry* **1998**, 49, 2607. 2
- 3 .-, .
- , Lishizhen Med. Mater. Med. Res. 2001, 12, 888. 4 , . , .**L**h 5 "⊿γ , Chem.
- , .**L** Υh. ' Pharm. Bull. 2007, 55, 1185.
- <u>.</u>{ ··· , ·· 24 , Chin. J. Microbiol. Immunol. 1982. 1, 145. 6 .
- 7 , <u>'</u>. , Pharmacol. Clin. Chin. Mater. Med. 1995, 5, 30.
- , .- . Z , ζ , ζ , . , *Pharmacol. Clin. Chin. Mater. Med.* **2000**, *16*, 19. 8 .-
- , Pharmacol. Clin. Chin. Mater. Med. 2001, 12, 430. 9 B.-7. 7.
- $, \ldots , C. , \ldots , C.$ 10 . .* **2000**, *70*, 177.
- $\mathcal{L}_{\mathbf{h}}$, \mathcal{L} . Κ 11 , . . 50, 100.
- , . .^ζ , . . , . B. , . . , *Biol. Pharm. Bull.* **2004**, <u>`</u>{ 12 27. 2035.
- Z. , . , .- . , .- .Z , Food Sci. **2006**, 27, 89. , ℋ . ℋ , A. B , Phytochemistry **1996**, 41, 503. 13 .- .
- 14
- , Chin. Tradit. Herb. Drugs 1997, 28, 517. 15 Α 4
- , .-. Z , .-. , Chin. Tradit. Herb. Drugs 2001, 32, 305. 16
- , .- . , .- . , J. Beijing Univ. Tradit. Chin. Med. 2003, 26, 17 21 - -59
- , .-C. Z , J. China Pharm. Univ. 1997, 28, 271. 18 .- .
- , China J. Chin. Mater. Med. 2006, 31, 41. 19
- , Phytochemistry 1996, 41, 1319. 20
- , . , Z. , . , Acta Pharmacol. Sin. **1982**, 40, 273. .- . Z , .- . B , Bioorg. Med. Chem. Lett. **1993**, 3, 1343. 21
- 22
- 23 . Z , Z.-. , .-. B , .-. , Bioorg. Med. Chem. Lett.
- 24 , .Z , Chem. Pharm. Bull. , . 2017. 55. 435.
- 25 , .Z , J. Nat. Prod. 2007, **%**0, 575.
- , J. Mol. Med. 26 . C. , . . , .Z , .**(**, . . 'h **1998**, 74, 583.
- , J. Ethnopharmacol. 2005, 102, 424. 27 , <u>a</u> .
- , . , .- . , J. Ethnopharmacol. 2005, 101, 31. 28 ā ·
- , Chem. Biodivers. 2006, 3, 754. 29 , .
- 30
- .-B. Z , . , , , , , , , , , *Chem. Biodivers.* 2007, 3, 967. , , . . , *Nat. Rev. Drug Discovery* 2002, 1, 229. 31
- . . C , Int. Immunopharmacol. 2005, 5, 1. 32

- 33
 A.
 , ...
 C
 , Drugs 2007, 67, 1167.

 34
 .C. C
 , A. C
 , Vaccine 1997, 15, 48.

 35
 .
 , A. C.
 , JEA.
 , ...
 , Biochem.

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 .

 , Biochem. Pharmacol. 2004, 68, 621.

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