

Accepted Manuscript

Phytochemistry and pharmacological activities of the genus *Prunella*

Yubing Bai, Bohou Xia, Wenjian Xie, Yamin Zhou, Jiachi Xie, Hongquan Li,
Duanfang Liao, Limei Lin, Chun Li

PII: S0308-8146(16)30208-4
DOI: <http://dx.doi.org/10.1016/j.foodchem.2016.02.047>
Reference: FOCH 18767

To appear in: *Food Chemistry*

Received Date: 10 September 2015
Revised Date: 1 January 2016
Accepted Date: 8 February 2016



Please cite this article as: Bai, Y., Xia, B., Xie, W., Zhou, Y., Xie, J., Li, H., Liao, D., Lin, L., Li, C., Phytochemistry and pharmacological activities of the genus *Prunella*, *Food Chemistry* (2016), doi: <http://dx.doi.org/10.1016/j.foodchem.2016.02.047>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Phytochemistry and pharmacological activities of the genus *Prunella*

Yubing Bai ^a, Bohou Xia ^a, WenjianXie^a, Yamin Zhou ^a, JiachiXie^a, Hongquan Li ^a, Duanfang Liao ^a, Limei Lin ^{a,*},
Chun Li ^{b,**1}

^aSchool of Pharmaceutical Sciences, Hunan University of Chinese Medicine, Changsha 410208, China

^bInstitute of Chinese Material Medica, China Academy of Chinese Medical Sciences, Beijing 100700, China

Abstract

Prunella is a genus of perennial herbaceous plants in the Labiatae family. There are approximately 15 species worldwide, distributed widely in the temperate regions and tropical mountains of Europe and Asia. In the genus *Prunella*, *P. vulgaris* is the most studied, following a several thousand-year history as a traditional antipyretic and antidotal Chinese herb. Furthermore, since ancient times, *P. vulgaris* has been widely used as a cool tea ingredient and consumed as a vegetable. The genus *Prunella* contains triterpenoids and their saponins, phenolic acids, sterols and associated glycosides, flavonoids, organic acids, volatile oil and saccharides. Modern pharmacological studies have revealed that *Prunella* possess antiviral, antibacterial, anti-inflammatory, immunoregulatory, anti-oxidative, anti-tumor, antihypertensive and hypoglycemic functions. The active components related to these functions are mainly triterpenoids, phenolic acids, flavonoids and polysaccharides. This review mainly summarizes recent advances in traditional usage, chemical components and pharmacological functions.

Keywords: *Prunella* genus, chemical constituents; pharmacological activity

The contribution rate of Y. Bai & B. Xia is equal.

*Corresponding author. Tel.: +86 13873172862, fax: +86 0731 88458227. E-mail address: linlimeiywfx@163.com (L. Lin).

**Corresponding author. Tel.: +86 13910436611, fax: +86 01064013996. E-mail address: yujiaolong1977@aliyun.com. (C. Li).

Download English Version:

<https://daneshyari.com/en/article/7588760>

Download Persian Version:

<https://daneshyari.com/article/7588760>

[Daneshyari.com](https://daneshyari.com)