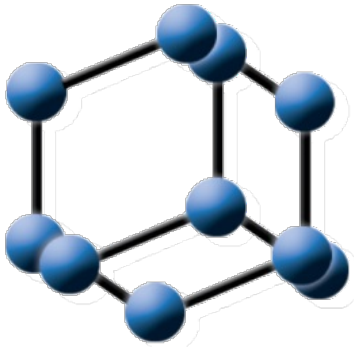

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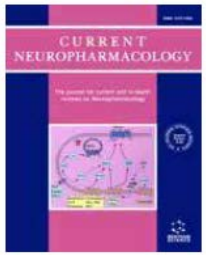

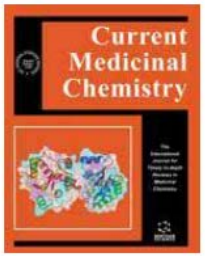

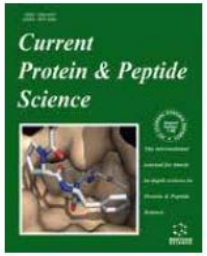

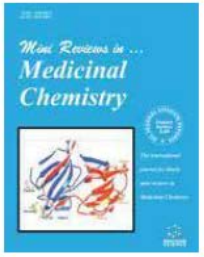

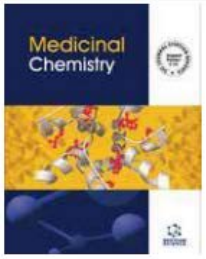

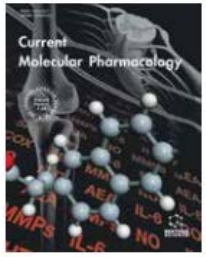

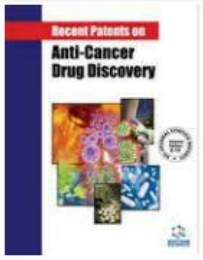

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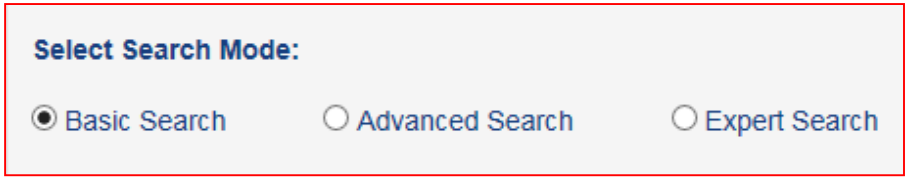

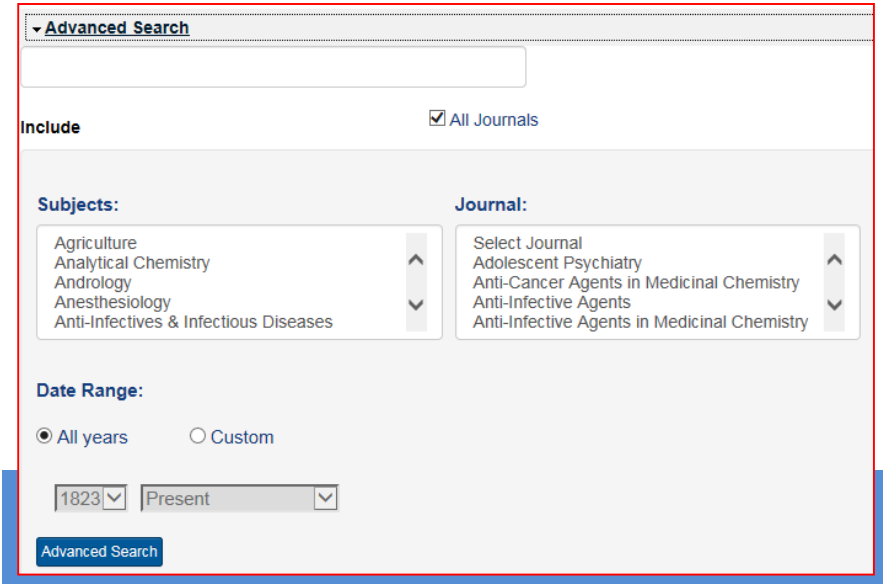

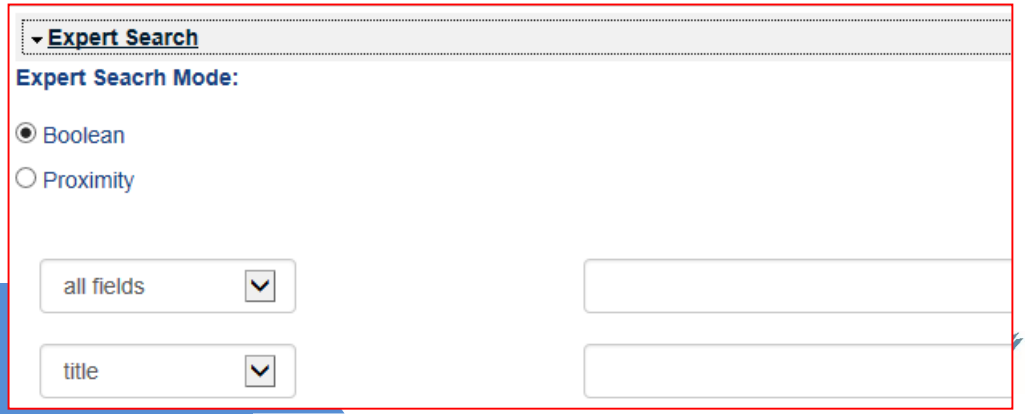

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A
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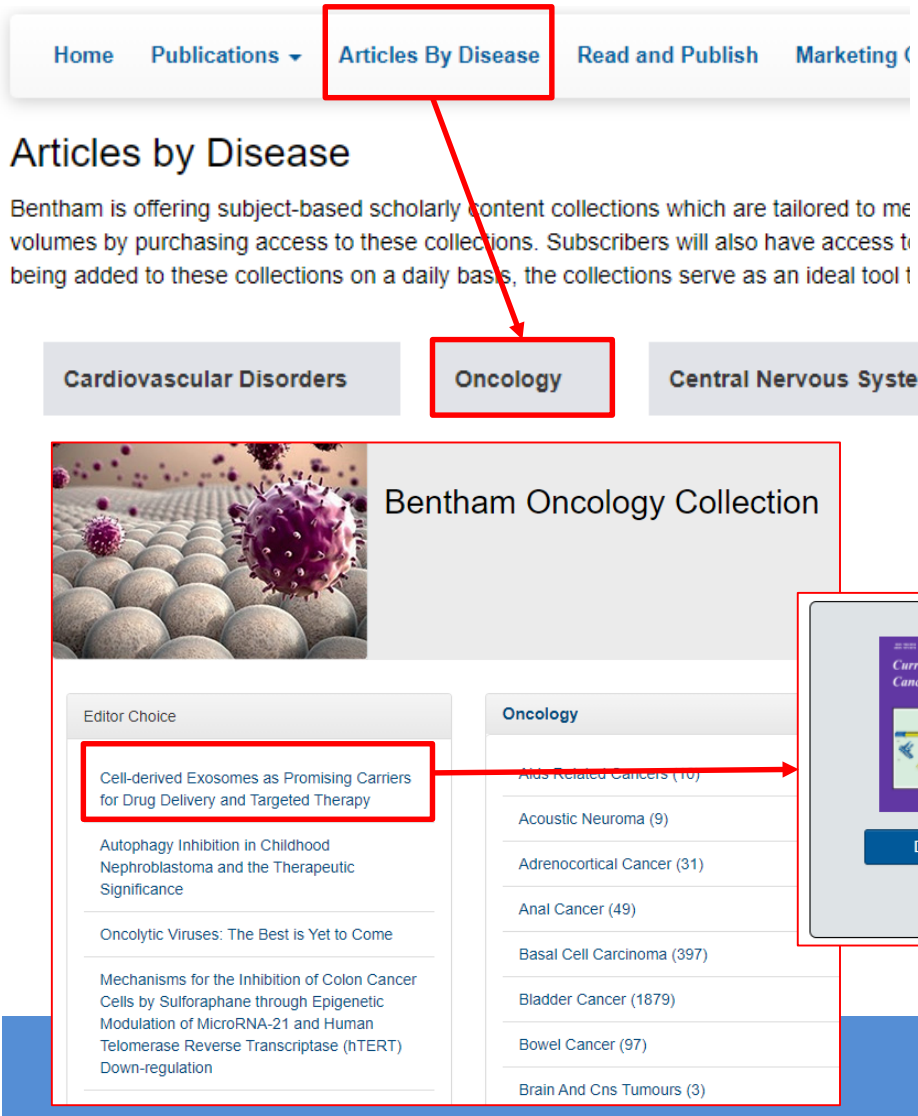
❖ Articles by Disease

6가지 질병 별 기사 검색 및 원문 이용 가능

1. Cardiovascular Disorers
2. Oncology
3. Central Nervous System
4. Diabetes
5. Anti Inflammatory
6. Coronavirus



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❖ Articles by Disease

Editor Choice

- Cell-derived Exosomes as Promising Carriers for Drug Delivery and Targeted Therapy
- Autophagy Inhibition in Childhood Nephroblastoma and the Therapeutic Significance
- Oncolytic Viruses: The Best is Yet to Come
- Mechanisms for the Inhibition of Colon Cancer Cells by Sulforaphane through Epigenetic Modulation of MicroRNA-21 and Human Telomerase Reverse Transcriptase (hTERT) Down-regulation

Oncology

- Aids Related Cancers (10)
- Acoustic Neuroma (9)
- Adrenocortical Cancer (31)
- Anal Cancer (49)
- Basal Cell Carcinoma (397)
- Bladder Cancer (1879)
- Bowel Cancer (97)

BLADDER CANCER

Oncology 내 주제분야별 Article 검색 및 이용 가능

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Salidroside - Can it be a Multifunctional Drug?

Journal: Current Drug Metabolism
Volume: 21, **Issue:** 7
Page: 512-524
Authors: Sri Krishna Jayadev Magani, Sri Durgambica Mupparthi, Bhanu Prakash Gollapalli, Dhananjay Shukla, AK Tiwari, Jyotsna Gorantala, Nagendra Sastry Yarla and Srinivasan Tantravahi*

Advances in the use of MOFs for Cancer Diagnosis and Treatment: An Overview

Journal: Current Pharmaceutical Design
Volume: 26, **Issue:** 33
Page: 4174-4184
Authors: Marina P. Abuçafy, Bruna L. da Silva, João A. Oshiro-Junior, Eloisa B. Manaia, Bruna G. Chiari-Andréo, Renan A. M. Armando, Regina C. G. Frem and Leila A. Chiavacci*

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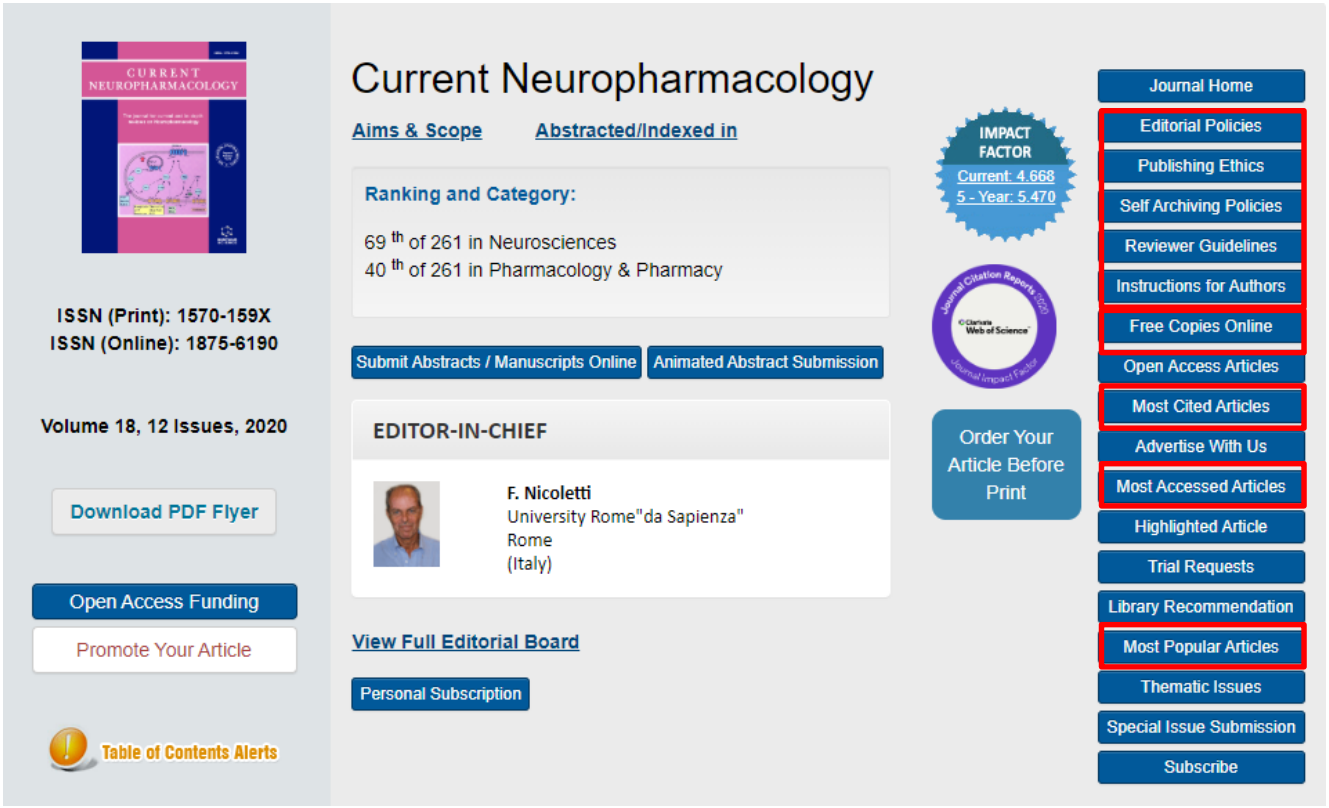

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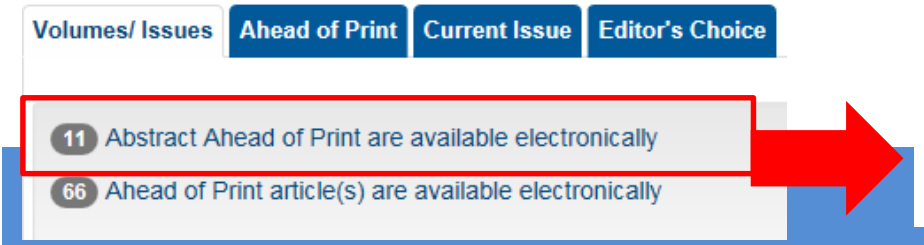

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REVIEW ARTICLE

Does Ceruloplasmin Defend Against Neurodegenerative Diseases?

BENTHAM SCIENCE

Bo Wang[1,2] and Xiao-Ping Wang[1,3,*]

[1]Shanghai General Hospital of Nanjing Medical University, Shanghai, 200080, China; [2]Department of Neurology Baoshan Branch, Shanghai General Hospital, Shanghai, 200940, China; [3]Department of Neurology, Shanghai Tong-Ren Hospital, Shanghai Jiao-Tong University School of Medicine, Shanghai, 200080, China

Abstract: Ceruloplasmin (CP) is the major copper transport protein in plasma, mainly produced by the liver. Glycosylphosphatidylinositol-linked CP (GPI-CP) is the predominant form expressed in astrocytes of the brain. A growing body of evidence has demonstrated that CP is an essential protein in the body with multiple functions such as regulating the homeostasis of copper and iron ions, ferroxidase activity, oxidizing organic amines, and preventing the formation of free radicals. In addition, as an acute-phase protein, CP is induced during inflammation and infection. The fact that patients with genetic disorder aceruloplasminemia do not suffer from tissue copper deficiency, but rather from disruptions in iron metabolism shows essential roles of CP in iron metabolism rather than copper. Furthermore, abnormal metabolism of metal ions and oxidative stress are found in other neurodegenerative diseases, such as Wilson's disease, Alzheimer's disease and Parkinson's disease. Brain iron accumulation and decreased activity of CP have been shown to be associated with neurodegeneration. We hypothesize that CP may play a protective role in neurodegenerative diseases. However, whether iron accumulation is a cause or a result of neurodegeneration remains unclear. Further research on molecular mechanisms is required before a consensus can be reached regarding a neuroprotective role for CP in neurodegeneration. This review article summarizes the main physiological functions of CP and the current knowledge of its role in neurodegenerative diseases.

ARTICLE HISTORY

Keywords: Ceruloplasmin, iron, copper, oxidative stress, free radicals, neurodegeneration, neurodegenerative diseases.

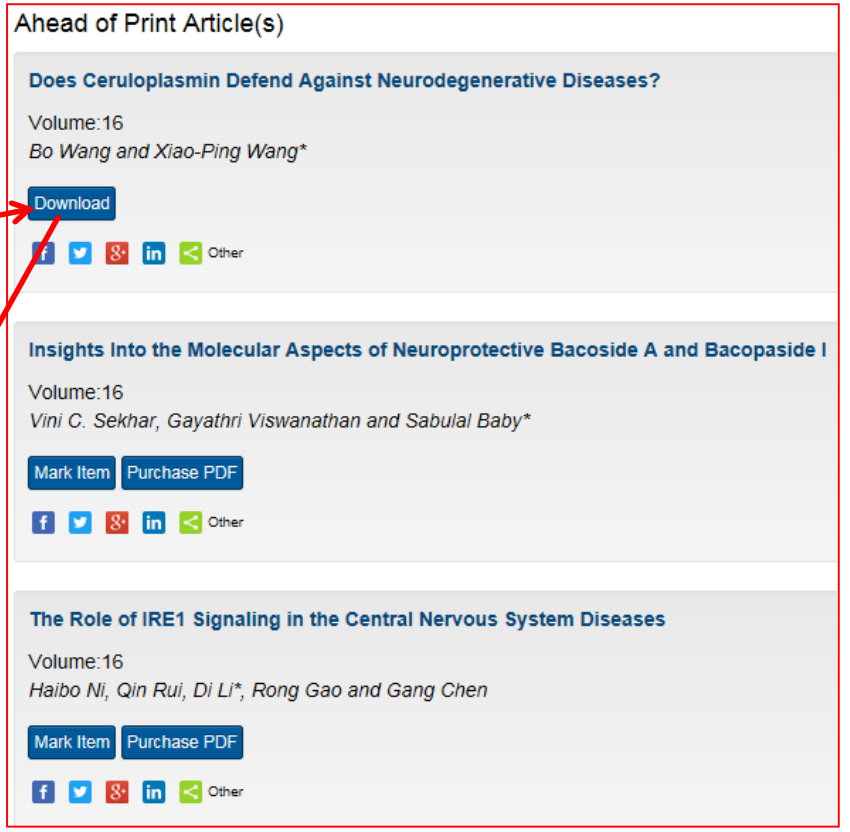
1. INTRODUCTION

Ceruloplasmin (CP) is a glycoprotein of the serum and was first isolated from plasma by Holmberg and Laurell in 1948 [1]. It is characterized as a copper (Cu)-containing protein binding 40-70% of Cu in the plasma and is mainly produced by the liver [2, 3]. Notably, its membrane-anchored form glycosylphosphatidylinositol (GPI)-linked CP has been found in glial cells (central nervous system and retina) and Sertoli cells (testis) [4-6]. To date, many physiological functions of CP have been demonstrated (Table 1), including transportation of Cu, regulation of iron homeostasis, ferroxidase activity, oxidation of organic amines and ascorbate oxidase activities, as well as antioxidant activity through the prevention of free radicals formation [7, 8]. In turn, CP has

In addition, an increasing evidence suggests that abnormal metabolism of Cu and iron is observed in many neurodegenerative diseases, such as Wilson's disease (WD), aceruloplasminemia, Alzheimer's disease (AD) and Parkinson's disease (PD) [13-16]. Therefore, it is reasonable to hypothesize that CP might play a neuroprotective role in neurodegenerative diseases by regulating homeostasis of cellular Cu and iron and protecting tissues from oxidative damage. Herein, we reviewed the most recent findings on the physiological functions of CP, and discussed its roles in neurodegenerative diseases.

2. CP STRUCTURE AND EXPRESSION

CP is widely distributed in various types of eukaryotes,



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