

From: Martin, Christine

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Plant Foods Hum Nutr. 2011 Mar;66(1):22-6.

White tea (*Camellia sinensis* Kuntze) exerts neuroprotection against hydrogen peroxide-induced toxicity in PC12 cells.

López V, Calvo M.
Faculty of Health Sciences, San Jorge University, Villanueva de Gállego, Zaragoza, Spain. ilopez@usj.es

Abstract
Tea is a popular beverage whose consumption is associated with prevention of certain disorders. The objective of the study was to investigate the potential neuroprotective effect of white tea extract (WTE) on hydrogen peroxide induced toxicity in PC12 cells. Cells were treated with various doses of WTE (10-250 µg/ml) before exposition to 250 µM hydrogen peroxide and cell survival was determined through the MTT and LDH assays. Oxidative stress was quantified in the cells after treatments as intracellular reactive oxygen species (ROS) production and the antioxidant activity of the extract was assessed in a cell free system in terms of free radical scavenging capacity. Results showed that WTE has a significant protective effect in the PC12 cell line against hydrogen peroxide as cell survival was significantly superior in WTE-treated cells compared to hydrogen peroxide-treated cells. A reduction on intracellular oxidative stress as well as radical scavenging properties were produced by WTE. Results suggest that WTE protects PC12 cells against H₂O₂-induced toxicity, and that an antioxidant mechanism through ROS scavenging may be in part responsible for cells neuroprotection.

PMID: 21271291 [PubMed - indexed for MEDLINE]

⊕ Publication Types, MeSH Terms, Substances

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In vitro protective effects of colon-available extract o [Phytomedicine. 2011]
Antioxidant properties and protective effects of a standardized [Life Sci. 2004]
Protection against hydrogen peroxide-induced injury by Z [Exp Brain Res. 2008]
Protective effect of 3-butyl-6-bromo-1 (3H)-isobenzofuranone [Brain Res. 2010]
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J Food Sci. 2010 Aug 1;75(6):C541-8.

White and green teas (*Camellia sinensis* var. *sinensis*): variation in phenolic, methylxanthine, and antioxidant profiles.

Unachukwu UJ, Ahmed S, Kavalier A, Lyles JT, Kennelly EJ.
Dept. of Biological Sciences, Lehman College, Bronx, NY 10468, USA.

Abstract
Recent investigations have associated white teas with anti-carcinogenic, immune-boosting, and antioxidative properties that may impact human health in a manner comparable to green teas. An in-depth chemical analysis of white tea types was conducted to quantify polyphenols and antioxidant potential of 8 commercially available white teas, and compare them to green tea. Extraction and HPLC protocols were optimized and validated for the quantification of 9 phenolic and 3 methylxanthine compounds to examine inter- and intra-variation in white and green tea types and subtypes. A sampling strategy was devised to assess various subtypes procured from different commercial sources. Variation in antioxidant activity and total phenolic content (TPC) of both tea types was further assessed by the 1-1-diphenyl-2-picrylhydrazyl (DPPH) and Folin-Ciocalteu (F-C) assays, respectively. Total catechin content (TCC) for white teas ranged widely from 14.40 to 369.60 mg/g of dry plant material for water extracts and 47.16 to 163.94 mg/g for methanol extracts. TCC for green teas also ranged more than 10-fold, from 21.38 to 228.20 mg/g of dry plant material for water extracts and 32.23 to 141.24 mg/g for methanol extracts. These findings indicate that statements suggesting a hierarchical order of catechin content among tea types are inconclusive and should be made with attention to a sampling strategy that specifies the tea subtype and its source. Certain white teas have comparable quantities of total catechins to some green teas, but lesser antioxidant capacity, suggesting that white teas have fewer non-catechin antioxidants present. Practical Application: In this investigation white and green teas were extracted in ways that mimic common tea preparation practices, and their chemical profiles were determined using validated analytical chemistry methods. The results suggest certain green and white tea types have comparable levels of catechins with potential health promoting qualities. Specifically, the polyphenolic content of green teas was found to be similar to certain white tea varieties, which makes the latter tea type a potential substitute for people interested in consuming polyphenols for health reasons. Moreover, this study is among the first to demonstrate the effect subtype sampling, source of procurement, cultivation, and processing practices have on the final white tea product, as such analysis has previously been mostly carried out on green teas.

PMID: 20722909 [PubMed - indexed for MEDLINE]

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Comparison of the nutrient and chemical contents of [Plant Foods Hum Nutr. 2010]
Factors affecting the levels of tea polyphenols [J Agric Food Chem. 2003]
Catechin and caffeine content of green tea dietary su [J Agric Food Chem. 2006]
Review Recent patents on Camellia sinen [Recent Pat Food Nutr Agric. 2009]
Review Beneficial effects of green tea--a review. [J Am Coll Nutr. 2006]
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