

SDG keywords

The United Nations Sustainable Development Goals (SDGs)

50 Key phases from SciVal.com

SUSTAINABLE DEVELOPMENT GOALS



บทความนี้ SCOPUS จัดให้อยู่ใน SDG 3

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(ขอใช้บทคัดย่อจากบทความวิจัยของ รศ.วีระศักดิ์ สามี เป็นตัวอย่าง)

on-small cell lung cancer (NSCLC) is a challenging disease, with the epidermal growth factor receptor (EGFR) being a key target for new, effective treatments crucial for the signaling pathways regulating cancer cell survival. Targeting EGFR-mediated signaling offers promising strategies to improve NSCLC therapies, particularly in overcoming resistance in EGFR-mutant lung cancer. In this study, we investigated the anticancer effects of panduratin A, a naturally occurring flavonoid from *Boesenbergia rotunda*, on human NSCLC cell lines expressing both wild-type EGFR (A549) and mutant EGFR (H1975) using in vitro experiments and molecular docking approaches. Cytotoxicity screening revealed that panduratin A exhibits potent effects on both A549 (IC₅₀ of 6.03 ± 0.21 µg/mL) and H1975 (IC₅₀ of 5.58 ± 0.15 µg/mL) cell lines while demonstrating low toxicity to normal MRC5 lung cells (12.96 ± 0.36 µg/mL). Furthermore, western blotting and flow cytometric analyses indicated that panduratin A induces apoptosis by inhibiting p-EGFR and its downstream effectors, p-STAT3 and p-Akt, in lung cancer cells. Additionally, the docking study showed lower binding energy between panduratin A and the target proteins, comparable to that of epidermal growth factor receptor tyrosine kinase inhibitors (EGFR TKIs). The ADMET prediction also highlighted panduratin A's exceptional drug-like properties. This study concludes that panduratin A shows significant promise as an anti-lung cancer candidate for NSCLC, offering an economical and effective strategy.

50 Key phases SDG 3 Good Health and Well-being			
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COVID-19	Cancer Therapy	Vaccination	Non-Small Cell Lung Carcinoma

50 Key phases SDG 3 Good Health and Well-being			
Cancer	Metastasis	Pneumonia	Betacoronavirus
COVID-19	Cancer Therapy	Vaccination	Non-Small Cell Lung Carcinoma
Prognosis	Non Insulin Dependent Diabetes Mellitus	MicroRNA	Tuberculosis
Pandemic	Case Report	Colorectal Neoplasms	Stomach Neoplasms
Diabetes Mellitus	Systematic Review	Oncology	Melanoma
Biomarkers	Orthocoronavirinae	Middle East Respiratory Syndrome	Immune Checkpoint Inhibitors
Severe Acute Respiratory Syndrome Coronavirus 2	Severe Acute Respiratory Syndrome	Liver Cell Carcinoma	Long Noncoding RNA
Cancer Cell	Vaccine	Prostatic Neoplasms	Uterine Cervical Neoplasms
Breast Neoplasms	Immunotherapy	Virus Pneumonia	Pancreatic Neoplasms
Cancer Patients	Meta-Analysis	Tumor Microenvironment	Atrial Fibrillation
Obesity	Radiotherapy	Chronic Kidney Failure	Ovarian Neoplasms
Cardiovascular Disease	Human Immunodeficiency Virus 1	Brain Ischemia	
Stroke	Lung Neoplasms	Asthma	



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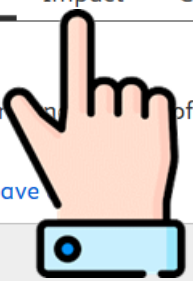
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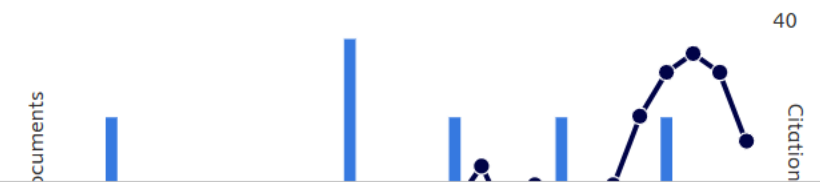
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Goal 3: Good health and well-being

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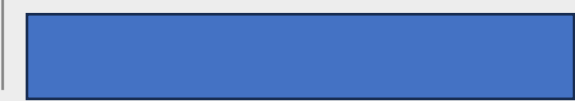


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 Goal 3: Good health and well-being

What is the goal?

Ensure healthy lives and promote well-being for all at all ages.

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Generation of free radical intermediates from traditional medicine herbal extracts
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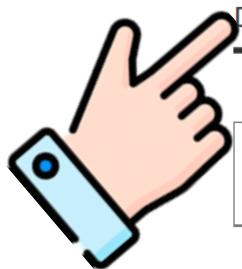
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Generation of free radical intermediates from traditional medicine herbal extracts

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^aThailand Institute of Nuclear Technology (Public Organization), Ongkharak, Nakhon Nayok, Thailand

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Abstract

Varieties of medicinal plants are well-known to possess powerful antioxidants and often considered for use as cancer preventing agents. Dietary supplements from plant extracts are made available for the purpose of scavenging free radicals. However, due to their strong reactivity, herbal extracts may also produce free radicals which lead to other effects such as cell killing as observed in studies showing cell death caused by herbal treatments. In this study, we examined a range of herbs commonly used in traditional medicine for their ability to generate radical intermediates in both aqueous and ethanolic extracts using Electron Paramagnetic Resonance (EPR) spectroscopy. Crude aqueous and ethanolic extracts of *Phyllanthus emblica* Linn, *Phyllanthus urinaria* Linn, *Houttuynia cordata* Thumb, *Acanthus ebracteatus* Vahl, *Rhinacanthus nasutus* Kurz, *Thunbergia laurifolia* Linn, and *Moringa oleifera* Lam were tested for their ability to generate free radicals under different conditions. The results showed that all of the herbal extracts could act as prooxidants under extreme alkali condition (pH12); *P. emblica*, *P. urinaria* and *A. ebracteatus* extracts were able to produce free radical in phosphate buffer at near neutral pH (pH7.4). At near physiological conditions where H_2O_2 and peroxidase are available, *H. cordata* in addition to the three herbs mentioned prior was able to generate a free radical product. The HPTLC data also showed that gallic acid, chlorogenic acid and quercetin were present as constituents of these plants and thus could play a role in their free radical production. This study provides evidence that herbal extracts can produce free radicals and cause cellular toxicity rather than simply scavenging free radicals. © 2017 Suwimol Jetawattana et al.

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Goal 3: Good health and well-being

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