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**Date coverage** 2015 - present  
**Update frequency** Daily

**Geographic coverage** International
**Document types** Conference posters and abstracts

**Sources** Authors and conference organizers (societies, institutions, corporations and research organizations)

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Bilateral acute retinal necrosis following Shingrix vaccine in a locally immunosuppressed host

Wang, Yao. 2020 COS Annual Meeting and Exhibition (Jun 22, 2020)

Abstract (summary)

Purpose: To the best of our knowledge, we report the first case of acute retinal necrosis (ARN) following Hz/Su (Shingrix) shingles vaccine in a locally immunosuppressed 83-year-old host. Study Design: Observational case report in the setting of a tertiary care ophthalmology referral centre. Methods: The patient’s clinical records were reviewed including history, clinical examinations, imaging and investigations. A thorough review of the literature was conducted. Results: An 83-year-old man with an ocular history significant for herpes zoster keratouveitis

Indexing (details)

Identifier (keyword)  acute retinal necrosis, shingles, vaccine, immunocompromise
Title  Bilateral acute retinal necrosis following Shingrix vaccine in a locally immunosuppressed host
Author  Wang, Yao ¹
¹ Queen’s University
Conference title 2020 COS Annual Meeting and Exhibition
Conference start date 2020-06-26
Conference end date 2020-06-28
Conference location Online
Language English
Document type Conference Poster, Conference Abstract
Publication title 2020 COS Annual Meeting and Exhibition
Publication type Conference Papers & Proceedings
Publication date Jun 22, 2020
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Accession number 5e9852a0df8760da4ba07404
First available 2020-08-19
Updates 2020-08-19
Database Morressier Life Science Conference Abstracts and Posters (2015 - current)
Sample Document - poster

Pharmacophore-docking virtual screening of protein tyrosine phosphatase 1b identifies natural products with potential activity against diabetes mellitus type-2 and obesity

Ho Yueng Hsing1, Selensthin Rathsanamy1,2, Rozna Dianita1 and Habibah A. Wahab1,2
1School of Pharmaceutical Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia
2USM-RIKEN centre for Aging Science (URICAS), Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia

INTRODUCTION

Growing incidence of Type-2 Diabetes Mellitus (T2DM) together with obesity, shows the complexity and progressive nature of these metabolic disorders and alarms the necessity to explore new and alternative therapeutic pathways and drugs. Insulin and leptin resistance are the most common pathophysiologial link between T2DM and obesity. Protein tyrosine phosphatase 1b (PTP1B) is thought to interfere with glucose homeostasis and satiety through downregulation of insulin and leptin signaling pathways. Thus, drugs that are potent to impede this enzyme should be effective in treating T2DM and obesity.

RESULTS

![Graphs and figures showing the virtual screening results.]

Our virtual screening study and enzymatic assays indicated the promising PTP1B inhibitory activity of Pandanus amaryllifolius leaves, Vitis vinifera leaves and Piper nigrum fruit. Further fractionation or isolation of active principles from these plants can provide a good platform to develop promising anti-diabetic or -obesity drugs through PTP1B-targeted approach. However, taken into account the limitations targeting only the catalytic region of PTP1B, future experiments should include all possible binding pockets.

METHOD

*ChemDraw Ultra 8.0 and AutoDock 4.2 were used to illustrate ligand structure and run molecular docking simulation and virtual screening, respectively.

*Discovery Studio 2.5 and 4.0 Client were used for pharmacophore mapping and protein-ligand interactions visualization.

*4000 natural compounds from NADI database were screened for activity.

*Methanol crude extracts of selected plants were prepared using maceration technique.

*PTP1B calorimetric assay kit (cat. no: 539716) was used for in vitro assay

REFERENCES


ACKNOWLEDGEMENT

Thanks to RIKEN for financial support from USM RU TOP-DOWN project entitled "Sustainable USM-RIKEN National Platform (JICRMIP) for the Discovery of Innovative Molecules on Aging and Aging-Related Diseases", 01-01-01-0326-STG20.
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Document type, Author, Language, Publication title, Conference title, Subject, Publication date

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