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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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TI

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

AU, PUB

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

Highlighting: Off | Single | Multi

AB

Abstract (summary) Translate

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) Cite

IF	**Identifier (keyword)**	acute retinal necrosis, shingles, vaccine, immunocompromise
TI	**Title**	Bilateral acute retinal necrosis following Shingrix vaccine in a locally immunosuppressed host
AU	**Author**	Wang, Yao [1]
		[1] Queen's University
CFTI	**Conference title**	2020 COS Annual Meeting and Exhibition
ESDT	**Conference start date**	2020-06-26
EVDT	**Conference end date**	2020-06-28
CG, CCNT	**Conference location**	Online
LA	**Language**	English
DTYPE	**Document type**	Conference Poster, Conference Abstract
PUB	**Publication title**	2020 COS Annual Meeting and Exhibition
PSTYPE	**Publication type**	Conference Papers & Proceedings
DT, YR	**Publication date**	Jun 22, 2020
	Source attribution	Morressier Life Science Conference Abstracts and Posters, © Publisher specific
AN	**Accession number**	5e9852a0df8760da4ba87404
	Document URL	https://dialog.proquest.com/professional/docview/2435077726?accountid=174335
FAV	**First available**	2020-08-19
UD	**Updates**	2020-08-19
	Database	Morressier Life Science Conference Abstracts and Posters (2015 - current)

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

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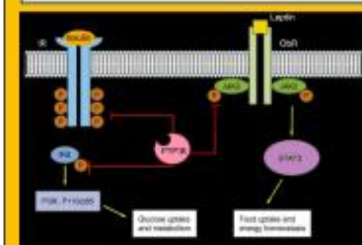
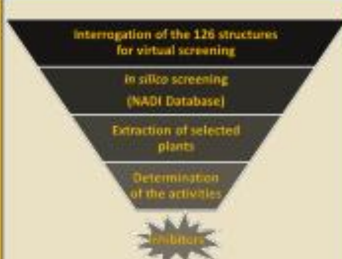
INTRODUCTION

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 pathophysiological 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.



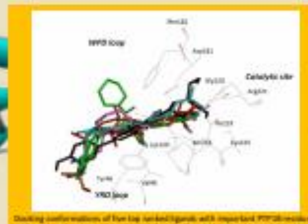
METHOD



*PDB structure with ID 1C83 in complex with the ligand 6-(oxalyl-amino)-1h-indole-5-carboxylic acid (OAI) was used for this study.

RESULTS

Compounds that showed best docking interactions with PTP1B structure



Docking conformations of five top ranked ligands with important PTP1B residues. The order of ranking of compounds from highest to lowest: [illegible]

Twelve top ranked ligands in pharmacophore mapping

Inhibitory activity of selected plant extracts using 2.5% DMSO as solvent against PTP1B.

Sample	% Inhibition	Sample	% Inhibition
Suramin	87.94 ± 1.02	*Manilkara zapota* (L)	39.16 ± 18.88
P. amaryllifolius (L)	94.20 ± 2.43	*Psidium guajava* (L)	38.73 ± 8.22
Vitex negundo (L)	89.83 ± 3.65	*Oryza sativa* (WP)	38.24 ± 6.78
Piper nigrum (F)	81.29 ± 20.28	*Garcinia mangostana* (L)	23.54 ± 19.98
Cymbopogon nardus (L)	79.78 ± 6.12	*Artocarpus heterophyllus* (B)	9.82 ± 22.23
Cymbopogon nardus (P)	66.90 ± 6.43	*Myristica fragrans* (F)	2.81 ± 6.97
Cymbopogon nardus (L)	66.02 ± 13.20	*Barringtonia asiatica* (F)	2.28 ± 23.82
Manilkara zapota (F)	62.06 ± 20.87	*Murraya koenigii* (L)	CBD
Calophyllum inophyllum (L)	48.58 ± 21.85	*Artocarpus heterophyllus* (L)	CBD
Momordica charantia (F)	42.88 ± 14.62	*Anacardium occidentale* (L)	CBD
Morinda citrifolia (L)	42.08 ± 7.71	-	-

CBD: cannot be determined, (L): leaves, (F): fruit, (P): peel, (B): bark, (WP): whole plant

Fitting conformations of [illegible] in pharmacophore mapping.

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: 539736) was used for in vitro assay

CONCLUSION

Our virtual screening study and enzymatic assays indicated the promising PTP1B inhibitory activity of *Pandanus amaryllifolius* leaves, *Vitex negundo* 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.

REFERENCES

1. WHO. Global report on diabetes [Internet]. World Health Organization; 2016 [Cited 2019 Feb 20]. 88 p.
2. Sharma, D. and Singh, R. (2018). Protein tyrosine phosphatase-1B (PTP-1B): a novel and challenging therapeutic target for type-2 diabetes and obesity. *International Journal of Advanced Research and Development*. 3(4), p 53-62.

ACKNOWLEDGEMENT

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Author[1]	AU	au(rathnasamy) au(wahab) wang	Sometimes only the first author is included in the AU field, but the other authors may be included on the poster, so a search without any field qualification may return more results
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