

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Karya Ilmiah (Artikel) : Association of Hair Total Mercury with Serum Ferritin Level Among Indonesian Pregnant Woman: A preliminary Study

Jumlah Penulis : 6 Orang

Status Pengusul : Muflihatul Muniroh, Saekhol Bakri, Ainun R. Gumay, Julian Dewantiningrum, Mulyono Mulyono, Hardian Hardian

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Frontiers in Pharmacology
- b. Nomor ISSN : 16639812
- c. Vol, Nomor, halaman : 9,
- d. Edisi :
- e. Penerbit : Frontiers Media S.A
- f. Jumlah halaman : 3
- g. DOI artikel (jika ada) : 10.3389/conf.fphar.2018.63.00095
- h. Alamat web jurnal : [https://www.frontiersin.org/events/International_Conference_on_Drug_Discovery_and_Translational_Medicine_2018_\(ICDDTM_18\)Seizing_Op/6116/abstracts](https://www.frontiersin.org/events/International_Conference_on_Drug_Discovery_and_Translational_Medicine_2018_(ICDDTM_18)Seizing_Op/6116/abstracts)
- i. Terindeks di : SCOPUS Q1; SJR 1,23
- j. On line turnitin :

Kategori Publikasi Jurnal Ilmiah : ☒ **Jurnal Ilmiah Internasional / Internasional Bereputasi ****
(beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional/Nasional

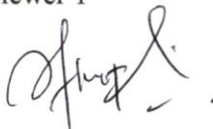
Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional / Internasional Bereputasi ** 5	Nasional Terakreditasi 	Nasional *** 	
a. Kelengkapan unsur isi artikel (10%)	0,5			0,5
b. Ruang lingkup dan kedalaman pembahasan (30%)	1,5			1,5
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	1,5			1,5
d. Kelengkapan unsur dan kualitas terbitan/ jurnal (30%)	1,5			1,5
Total = (100%)	5			5
Nilai Pengusul =	(40 % X5/5) =			0,4

Catatan penilaian Artikel oleh Reviewer :

- a. Kelengkapan unsur isi artikel : Merupakan structure abstract, ditemukan grammar errors.
- b. Ruang lingkup dan kedalaman pembahasan : sulit melihat kedalaman penelitian, karena hanya berupa abstrak
- c. Kecukupan dan kemutahiran data/informasi dan metodologi: pemeriksaan Serum ferritin dan kadar Hg pada rambut pada ibu hamil
- d. Kelengkapan unsur dan kualitas terbitan/ jurnal: Kualitas penerbit baik, menerbitkan abstract hasil dari pertemuan ilmiah:International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18) “Seizing Opportunities and Addressing Challenges of Precision Medicine”, Putrajaya, Malaysia, 3 Dec - 5 Feb, 2019

.....
Reviewer 1



dr. Muflihatul Muniroh, Msi.Med, PhD
NIP.198302182009122004

Bidang kerja : Fakultas Kedokteran Undip
Unit ilmu : Ilmu Kedokteran
Jabatan pangkat : Lektor/Penata IIIC

LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Karya Ilmiah (Artikel) : Association of Hair Total Mercury with Serum Ferritin Level Among Indonesian Pregnant Woman: A preliminary Study

Jumlah Penulis : 6 Orang
Status Pengusul : Muflihatul Muniroh, Saekhol Bakri, Ainun R. Gumay, Julian Dewantiningrum, Mulyono Mulyono, Hardian Hardian

Identitas Jurnal Ilmiah : a. Nama Jurnal : Frontiers in Pharmacology
b. Nomor ISSN : 16639812
c. Vol, Nomor, halaman : 9,
d. Edisi :
e. Penerbit : Frontiers Media S.A
f. Jumlah halaman : 3
g. DOI artikel (jika ada) : 10.3389/conf.fphar.2018.63.00095
h. Alamat web jurnal :
[https://www.frontiersin.org/events/International_Conference_on_Drug_Discovery_and_Translational_Medicine_2018_\(ICDDTM_18\)Seizing_Op/6116/abstracts](https://www.frontiersin.org/events/International_Conference_on_Drug_Discovery_and_Translational_Medicine_2018_(ICDDTM_18)Seizing_Op/6116/abstracts)
i. Terindeks di : SCOPUS Q1; SJR 1,23
j. On line turnitin :

Kategori Publikasi Jurnal Ilmiah : ☒ Jurnal Ilmiah Internasional / Internasional Bereputasi **
(beri ✓ pada kategori yang tepat) ☐ Jurnal Ilmiah Nasional Terakreditasi
☐ Jurnal Ilmiah Nasional/Nasional

Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional / Internasional Bereputasi ** 40	Nasional Terakreditasi 	Nasional *** 	
a. Kelengkapan unsur isi artikel (10%)	4 2			
b. Ruang lingkup dan kedalaman pembahasan (30%)	12 10			
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12 10			
d. Kelengkapan unsur dan kualitas terbitan/ jurnal (30%)	12 10			
Total = (100%)	40			
Nilai Pengusul =	(40 % X 22 / 5) = 2.4			

Catatan penilaian Artikel oleh Reviewer :

a. Kelengkapan unsur isi artikel :

Nilai maksimal 5
dikurangi kekurangan yg terdapat

b. Ruang lingkup dan kedalaman pembahasan :

c. Kecukupan dan kemutahiran data/informasi dan metodologi:

40 x 5
5 = 0.8

d. Kelengkapan unsur dan kualitas terbitan/ jurnal:

Tidak dapat dinilai

semang 08/11/21

Reviewer 2

dr. Amallia Nuggetsiana Setyawati, M.Si.Med,Sp.A
NIP. 198212012008122004
Bidang kerja : Fakultas Kedokteran Undip
Unit ilmu : Ilmu Kedokteran
Jabatan pangkat : Lektor/Penata IIIc

[About us](#) ▾[All journals](#)[All articles](#)[Submit your research](#)[F.](#)[Sections](#) ▾[Articles](#)[Research Topics](#)[Editorial Board](#)[About journal](#) ▾

Frontiers in Pharmacology

6.6

CiteScore

187,923

Citations

[Submit](#) →

We use cookies

Our website uses cookies that are necessary for its operation and to improve your experience. You can review and control your cookies by clicking on "Accept Cookies" or on "Cookies Settings".

[Cookies Settings](#)[Accept Cookies](#)

frontiers in Pharmacology

18 sections

Impact Factor 4.225 | CiteScore 5.0
More on impact >

JOURNAL ABOUT ARTICLES RESEARCH TOPICS FOR AUTHORS EDITORIAL BOARD ARTICLE ALERTS

Submit your manuscript

Search in this journal

All sections

All Roles

6,664 Editor(s) found

By role

Most viewed

Most publications

FIELD
CHIEF
EDITOR(S) >>



Heike Wulff

University of California,
Davis
Davis, United States

Field Chief Editor
Frontiers in Pharmacology

SPECIALTY
CHIEF
EDITOR(S) >>



José A G Agúndez

Institute of Molecular
Pathology Biomarkers,
University of

Specialty Chief Editor
Pharmacogenetics and
Pharmacogenomics



Nicholas M Barnes

University of
Birmingham
Birmingham, United

Specialty Chief Editor
Neuropharmacology



**Jeffrey Scott
Barrett**

Critical Path Institute
Tucson, United States

Specialty Chief Editor
Obstetric and Pediatric
Pharmacology

253 publications
18,344 views
222 followers

74 keywords

Follow

286 publications
149,003 views
219 followers

467 keywords

Follow

117 publications
10,765 views
203 followers

306 keywords

Follow

150 publications
14,091 views
114 followers

437 keywords

Follow



Jean-Marie Boeynaems

Université libre de Bruxelles
Brussels, Belgium

Specialty Chief Editor
Pharmaceutical Medicine and Outcomes Research

195 publications
14,773 views
76 followers

127 keywords

Follow



Alex F. Chen

Xiangya Hospital, Central South University

Specialty Chief Editor
Integrative and Regenerative Pharmacology

81 publications
15,379 views
158 followers

349 keywords

Follow



George Joseph Christ

University of Virginia Charlottesville, United States

Specialty Chief Editor
Integrative and Regenerative Pharmacology

213 publications
24,477 views
95 followers

494 keywords

Follow



Diana Conte Camerino

University of Bari Aldo Moro
Bari, Italy

Specialty Chief Editor
Pharmacology of Ion Channels and Channelopathies

116 publications
64,747 views
47 followers

26 keywords

Follow



Olivier Feron

Pôle de Pharmacologie et de Thérapeutique, Institut de Recherche

Specialty Chief Editor
Pharmacology of Anti-Cancer Drugs

293 publications
30,313 views
165 followers

5 keywords

Follow



Brian Godman

Strathclyde Institute of Pharmacy and Biomedical Sciences,

Specialty Chief Editor
Pharmaceutical Medicine and Outcomes Research

374 publications
168,672 views
188 followers

420 keywords

Follow



Dov Greenbaum

Yale University
New Haven, United States

Specialty Chief Editor
ELSI in Science and Genetics

65 publications
84,724 views
64 followers

124 keywords

Follow



Ursula Gundert-Remy

Charité –
Universitätsmedizin
Berlin

Specialty Chief Editor
Predictive Toxicology

315 publications
17,249 views
60 followers

519 keywords

Follow



Michael Heinrich

UCL School of
Pharmacy
London, United

Specialty Chief Editor
Ethnopharmacology

280 publications
211,862 views
255 followers

18 keywords

Follow



Angelo A Izzo

University of Naples
Federico II
Naples, Italy

Specialty Chief Editor
Gastrointestinal and
Hepatic Pharmacology

199 publications
30,102 views
99 followers

592 keywords

Follow



Jaime Kapitulnik

Hebrew University of
Jerusalem
Jerusalem, Israel

Specialty Chief Editor
Drug Metabolism and
Transport

65 publications
55,188 views
74 followers

249 keywords

Follow



Philippe Lory

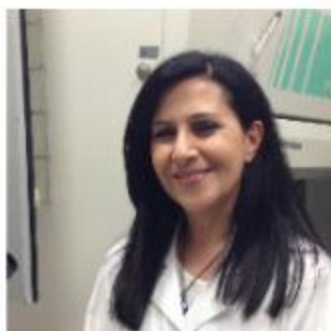
Centre National de la
Recherche Scientifique
(CNRS)

Specialty Chief Editor
Pharmacology of Ion
Channels and
Channelopathies

80 publications
20,956 views
82 followers

259 keywords

Follow



Paolo Montuschi

Catholic University of the Sacred Heart
Milano, Italy

Specialty Chief Editor
Respiratory Pharmacology

182 publications
73,219 views
87 followers

270 keywords [Follow](#)

Eliot Ohlstein

Drexel University
Philadelphia, United States

Specialty Chief Editor
Cardiovascular and Smooth Muscle Pharmacology

3 publications
15,490 views
23 followers

11 keywords [Follow](#)

Paola Patrignani

University of Studies G. d'Annunzio Chieti and Pescara

Specialty Chief Editor
Inflammation Pharmacology

161 publications
75,234 views
158 followers

428 keywords [Follow](#)

Giuseppe Remuzzi

Istituto di Ricerche Farmacologiche Mario Negri (IRCCS)

Specialty Chief Editor
Renal Pharmacology

1,123 publications
15,472 views
424 followers

1,682 keywords [Follow](#)

Francesco Rossi

University of Campania Luigi Vanvitelli
Caserta, Italy

Specialty Chief Editor
Cardiovascular and Smooth Muscle Pharmacology

226 publications
40,880 views
145 followers

950 keywords [Follow](#)

Salvatore Salomone

University of Catania
Catania, Italy

Specialty Chief Editor
Experimental Pharmacology and Drug Discovery

163 publications
118,659 views
189 followers

380 keywords [Follow](#)



Catherine M T Sherwin

Wright State University
Dayton, United States

Specialty Chief Editor
Obstetric and Pediatric



Dieter Steinhilber

Goethe University
Frankfurt, Germany

Specialty Chief Editor
Inflammation



Alastair George Stewart

The University of Melbourne
Parkville, Australia

Specialty Chief Editor
Translational



Javier Echeverria

University of Santiago
Santiago, Chile

Assistant Specialty Chief Editor

ASSOCIATE EDITOR(S) »



Raquel Abalo

Rey Juan Carlos University
Móstoles, Spain

Associate Editor
Gastrointestinal and

frontiersin.org

preview - Scopus - Biomedical...Biomedical Reports(2.933 belum dibaca) - dr_muffli...SSO - DashboardE-Journal UNDIPScopus - Document detailsFrontiers in Pharmacology

ABOUTJOURNALSRESEARCH TOPICSARTICLES

SUBMIT

LOGIN / REGISTER

Obstetric and Pediatric Pharmacology

145 publications
25,253 views
30 followers

235 keywordsFollow

Inflammation Pharmacology

226 publications
111,558 views
133 followers

642 keywordsFollow

Translational Pharmacology

212 publications
10,478 views
83 followers

531 keywordsFollow

Editor
Ethnopharmacology

69 publications
100,340 views
92 followers

23 keywordsFollow

Gastrointestinal and Hepatic Pharmacology

54 publications
76,065 views
54 followers

135 keywordsFollow



Abdel Abdel-Rahman
The Brody School of Medicine at East Carolina University

Associate Editor
Cardiovascular and Smooth Muscle Pharmacology

101 publications
336 views

5 keywordsFollow



Susan M. Abdel-Rahman
Children's Mercy Hospital
Kansas City, United

Associate Editor
Obstetric and Pediatric Pharmacology

1 publications
3,921 views
15 followers

5 keywordsFollow



Prof. Dr. Mosaad A Abdel-Wahhab
National Research Centre (Egypt)
Cairo, Egypt

Associate Editor
Predictive Toxicology

139 publications
2,036 views
16 followers

298 keywordsFollow

[LOGIN / REGISTER](#)[ABOUT](#)[JOURNALS](#)[RESEARCH TOPICS](#)[ARTICLES](#)[SUBMIT](#)[LOGIN / REGISTER](#)[SUBMIT](#)

Conference Abstract, Published on 17 Jan 2019

Evaluation of antibacterial activity and chemical constituents of *Melicope glabra* (Blume) T. G. Hartley

Hafizah Mohd Zaini, Nur Kartinee Kassim, Zamirah Zainal Abidin, Wan Noorina Jaafar and Nurul Nuha Kamal Bahrain

Front. Pharmacol. doi: 10.3389/conf.fphar.2018.63.00115

Conference Abstract, Published on 17 Jan 2019

***Lactobacillus plantarum* LAB12 enhances cognitive function via modulation of neurotransmitters and neuropeptides in antibiotic- and LPS-challenged rats**

Muhammad Syukri Noor Azman, Siong Meng Lim, Fei Tieng Lim and Kalavathy Ramasamy

Front. Pharmacol. doi: 10.3389/conf.fphar.2018.63.00074

Conference Abstract, Published on 17 Jan 2019

Demystifying Aspirin Toxicity Through Pharmacometabonomics

Abubakar Sha'Aban, Hadzliana Zainal, Muhamad Ali SK Abdul Kader and Baharudin Ibrahim

Front. Pharmacol. doi: 10.3389/conf.fphar.2018.63.00001

Conference Abstract, Published on 17 Jan 2019

THYMOQUINONE AMELIORATES NICOTINE-INDUCED SPERM DAMAGE IN RATS

Farah Dayana Rosli, Noor Hashida Hashim, Yusmin Mohd Yusuf, Khairul Osman, Siti Fatimah Ibrahim and Nurul Kabir

Front. Pharmacol. doi: 10.3389/conf.fphar.2019.63.00001

Conference Abstract, Published on 17 Jan 2019

THERAPEUTIC EFFECT OF DATES (PHOENIX DACTYLIFERA) ON THE MORPHINE-TREATED MALE RAT: A HISTOMORPHOMETRIC ANALYSIS

Amirah Baharin

Front. Pharmacol. doi: 10.3389/conf.fphar.2019.63.00017

Conference Abstract, Published on 17 Jan 2019

Profiling of exosomal circular RNA in Folfox-resistant colon cancer cells

Kha Wai Hon, Nadiyah Abu, Nurul-Syakima Ab Mutalib and Rahman Jamal

Front. Pharmacol. doi: 10.3389/conf.fphar.2018.63.00143

Conference Abstract, Published on 17 Jan 2019

The effect of autonomous sensory meridian response stimulation on sleep quality

Sari Satya Febriani, Hardian Hardian and Tanjung Ayu Sumekar

Front. Pharmacol. doi: 10.3389/conf.fphar.2018.63.00141

Conference Abstract, Published on 17 Jan 2019

The development of ReFOLDa a new rapid iterative protein refinement protocol guided by state-of-the-art quality assessment programs for the selection of optimal refined model.

Ahmad Naqib Shuid and Liam James McGuffin

Front. Pharmacol. doi: 10.3389/conf.fphar.2019.63.00039

Conference Abstract, Published on 17 Jan 2019

The effect of Som Jawa (Talinum triangulare) on BALB/c mice swimming time

Hardian Hardian, Yosef Purwoko, Ainun Rahmasari Gumay, Muflihatul Muniroh, Darmawati Ayu Indraswari and Armita Ayu Apsari

Front. Pharmacol. doi: 10.3389/conf.fphar.2019.63.00002

Conference Abstract, Published on 17 Jan 2019

Effects of *Morinda citrifolia* on Diabetic-Induced Renal Tissue Apoptosis

Indranila Kustarini Samsuria and Hardian Hardian

Front. Pharmacol. doi: 10.3389/conf.fphar.2019.63.00008

Conference Abstract, Published on 17 Jan 2019

Association of hair total mercury with serum ferritin level among Indonesian pregnant woman: a preliminary study

Muflihatul Muniroh, Saekhol Bakri, Ainun Rahmasari Gumay, Julian Dewantiningrum, Mulyono Mulyono and Hardian Hardian

Front. Pharmacol. doi: 10.3389/conf.fphar.2018.63.00095

Conference Abstract, Published on 17 Jan 2019

Anti-inflammatory effect of celery squeezed juice on carrageenan induced rat paw edema

Syarief Hudaya and Hardian Hardian

Front. Pharmacol. doi: 10.3389/conf.fphar.2019.63.00024

Displaying 151 - 175 out of 188 Abstracts

[«](#) [<](#) [6](#) | [7](#) | [8](#) [»](#) [»](#)[« Back](#)



Profiling of exosomal circular RNA in Folfox-resistant colon cancer cells

Kha Wai Hon¹, Nadiah Abu^{1*}, Nurul-Syakima Ab Mutalib¹ and Rahman Jamal¹

¹ UKM Medical Molecular Biology Institute (UMBI), Malaysia

Background

Exosomes are extracellular nanovesicles released by almost all living cells including colorectal cancer cells (CRC) into biological fluids. Exosomes are natural carriers of proteins and nucleic acids that reflects parent cells. Exosomes have been investigated extensively as potential biomarkers and therapeutic targets for various diseases. However, the potential of exosomes as biomarkers to detect Folfox-resistant CRC has not been fully explored and validated. This research aimed to characterise exosomes derived from Folfox-resistant HCT116 CRC cell line as potential targets for further development of biomarkers among CRC patients with chemoresistance.

Methods

Normal CRC cell line HCT116 (HCT116-C) was induced with 5 cycles of drug treatment to develop corresponding Folfox-resistant derivative clones (HCT116-R). HCT116-C and HCT116-R cell lines were compared for cell viability in 5-FU and oxaliplatin, wound healing assay, migration and invasion. Exosomes derived from both cell lines were characterised by transmission electron microscopy, particle size measurement, zeta potential analysis and Western Blot. Total RNA isolated from the exosomes of each cell line was subjected for circular RNA microarray. Selected circular RNAs were validated in clinical samples via RT-PCR.

Results

As compared to normal HCT116-C cell line, HCT116-R cell line had higher IC₅₀ values with 2.5 to 6-fold change. Migration rate of HCT116-R cell line was 19 percent higher than HCT116-C cell line in wound healing assay. Exosomes from both cell lines were morphologically cup-shaped nanovesicles that range from 60 to 370nm in size with zeta potential between -29.1mV and -16.3mV. 105 circular RNAs were upregulated and 34 circular RNAs were downregulated in exosomes derived from HCT116-R against HCT116-C cells.

Conclusion

We developed a stable HCT116-Folfox resistant CRC cells, and the characteristics of exosomes derived from parental and resistant cell lines is in concordance with the literature. We have identified several circular RNAs in exosomes as potential biomarkers to predict Folfox-responsiveness.

Acknowledgements

This project was funded by the Dana Impak Perdana Grant (DIP-2016-013) awarded by Universiti Kebangsaan Malaysia.

Keywords: Exosomes, colorectal cancer, molecular target, FOLFOX, biomarker

Conference: International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18) "Seizing Opportunities and Addressing Challenges of Precision Medicine", Putrajaya, Malaysia, 3 Dec - 5 Feb, 2019.

Presentation Type: Poster Presentation **Topic:** Cancer

Citation: Hon K, Abu N, Ab Mutalib N and Jamal R (2019). Profiling of exosomal circular RNA in Folfox-resistant colon cancer cells. *Front. Pharmacol. Conference Abstract: International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18) "Seizing Opportunities and Addressing Challenges of Precision Medicine"*. doi: 10.3389/conf.fphar.2018.63.00143

Copyright: The abstracts in this collection have not been subject to any Frontiers peer review or checks, and are not endorsed by Frontiers. They are made available through the Frontiers publishing platform as a service to conference organizers and presenters.

The copyright in the individual abstracts is owned by the author of each abstract or his/her employer unless otherwise stated.

Each abstract, as well as the collection of abstracts, are published under a Creative Commons CC-BY 4.0 (attribution) licence

(<https://creativecommons.org/licenses/by/4.0/>) and may thus be reproduced, translated, adapted and be the subject of derivative works provided the authors and Frontiers are attributed.

For Frontiers' terms and conditions please see <https://www.frontiersin.org/legal/terms-and-conditions>. Received: 29 Nov 2018; Published Online: 17 Jan 2019.

* **Correspondence:** Dr. Nadiah Abu, UKM Medical Molecular Biology Institute (UMBI), Kuala Lumpur, Malaysia, nadiah.abu@ppukm.ukm.edu.my





Preliminary Studies of the Prevalence and Possible Clinical Consequences of Potential Simple and Multifactorial Drug and Gene Interactions of Anti-depressants in Older Australians

Mohitosh Biswas^{1*}, Thilani H Dias², Elizabeth Holliday², Stephen Hancock², John Attia², Rodney J. Scott², David Newby², Karen P Kerr² and Liz Milward²

¹ University of Rajshahi, Bangladesh

² University of Newcastle, Australia

Introduction

Antidepressant drugs are often prescribed to treat psychiatric disorders in cancer patients. The safety or efficacy of these drugs may be affected by clinically significant drug-drug interactions (DDIs), drug gene interactions (DGIs) or combinations of these (multifactorial DGIs). The present study aimed to determine the prevalence of potential simple or multifactorial DGIs of participants taking antidepressant drugs of interest (TCAs or SSRIs) in older Australians where polypharmacy is common.

Methods

Co-prescribed interacting medications were identified from self-reported medication data of 2,642 participants aged over 55 in the Australian Hunter community study. Predicted drug and gene interactions were identified from genotyping data using Affymetrix Kaiser Axiom arrays and imputed data from the 1000 Genomes and HapMap Phase II European reference panels. Clinically significant pharmacogenotypes were identified from Clinical Pharmacogenetics Implementation Consortium (CPIC) pharmacogenomics based dosing guidelines.

Results

Of the 270 participants on antidepressant drugs of interest (TCAs or SSRIs), 174 (64.4%; 95% CI 59%-70%) were co-prescribed at least one potential clinically significant interacting drug, with a mean of 1.6 ± 0.8 possible interactions per participant. Genotype data were available for 128 of the 270 participants taking antidepressant drugs, with 15 participants (11.7%; 95% CI 6%-17%) identified as being at risk of clinically significant simple DGIs and 20 participants (15.6%; 95% CI 9%-22%) at risk of clinically significant multifactorial DGIs. These findings suggest a considerable proportion of participants using TCAs or SSRIs are at risk of drug and gene interactions affecting the safety or efficacy of these drugs.

Discussion

Over 1/4 participants on antidepressants may be at increased risk of adverse reactions involving drug-gene interactions that may justify dose adjustment. This emphasizes the potential value of considering the pharmacogenomics of antidepressants in conjunction with drug interaction analyses. This should be taken into consideration when applying precision medicine approaches to improve outcomes in cancer patients.

Keywords: psychiatric disorders, Antidepressants, DDI, pharmacogenomics, precision medicine

Conference: International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18) "Seizing Opportunities and Addressing Challenges of Precision Medicine", Putrajaya, Malaysia, 3 Dec - 5 Feb, 2019.

Presentation Type: Oral Presentation **Topic:** Neurodegenerative diseases

Citation: Biswas M, Dias T, Holliday E, Hancock S, Attia J, Scott RJ, Newby D, Kerr K and Milward L (2019). Preliminary Studies of the Prevalence and Possible Clinical Consequences of Potential Simple and Multifactorial Drug and Gene Interactions of Anti-depressants in Older Australians. *Front. Pharmacol. Conference Abstract: International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18) "Seizing Opportunities and Addressing Challenges of Precision Medicine"*. doi: 10.3389/conf.fphar.2018.63.00021

Copyright: The abstracts in this collection have not been subject to any Frontiers peer review or checks, and are not endorsed by Frontiers. They are made available through the Frontiers publishing platform as a service to conference organizers and presenters.

The copyright in the individual abstracts is owned by the author of each abstract or his/her employer unless otherwise stated.

Each abstract, as well as the collection of abstracts, are published under a Creative Commons CC-BY 4.0 (attribution) licence

(<https://creativecommons.org/licenses/by/4.0/>) and may thus be reproduced, translated, adapted and be the subject of derivative works provided the authors and Frontiers are attributed.

For Frontiers' terms and conditions please see <https://www.frontiersin.org/legal/terms-and-conditions>. Received: 15 Nov 2018; Published Online: 17 Jan 2019.

* **Correspondence:** Dr. Mohitosh Biswas, University of Rajshahi, Rajshahi, Bangladesh, biswas_07pharm@ru.ac.bd

