

CURRICULUM VITAE

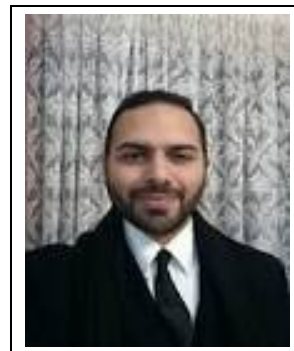
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Al-Zaytoonah University of Jordan, Amman, Jordan*

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1. Personal Data

Date of Birth: 28th of May, 1985

Nationality: Jordanian

2. Education

1- Doctorate degree: 09/2010-02/2015
Pharmacology
Faculty of Medicine
Inje University, South Korea
Grade: 4.3 out of 4.5 (Excellent)

2- Master degree: 09/2007 - 07/2009
Pharmacology
Faculty of Medicine
University of Jordan, Jordan
Grade: 4 out of 4 (Excellent)

3- B.Sc. Degree: 09/2002 - 07/2007
Pharmacy
Faculty of Pharmacy
University of Jordan
3.5 out of 4 (very good)

3. Ph.D. Dissertation



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Genetic Polymorphisms of Cytochrome P450s and UPD-Glucuronosyltransferases Involved in Arahidonic acid Metabolism

4. Employment

Academic Positions

Associate professor in Pharmacology,

Faculty of Pharmacy
Al-Zaytoonah University
Amman, Jordan
Started : 1/09/2020

Lecturer of Pharmacology (Part time),

Faculty of Medicine
University of Jordan
Amman, Jordan
Started : 1/09/2019

Previous Positions Held

Assistant professor in Pharmacology,

Faulty of Pharmacy
Al-Zaytoonah University
Amman, Jordan
Duration : 1/09/2015-30/08/2020

Lecturer in Pharmacology,

College of Pharmacy
University of Jordan
Amman, Jordan
Duration: One semester (9/2016-1/2017)

Lecturer in Pharmacology,

College of Pharmacy
Al-Jouf University
Skaka, Saudi Arabia



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Duration: One year (2009 – 2010)

Administrative Positions

- Not Applicable

5. Research Interests

- Pharmacogenetics and genomics of drug metabolizing enzymes.

6. Membership in Scientific Societies and Associations

- Jordan Pharmacists Association
- European Society of Pharmacogenomics and Personalized Medicine.

7. Honors and Awards

-13/03/2015: Best Abstract of the GOLDEN HELIX SYMPOSIA: NEXT-GENERATION PHARMACOGENOMICS. Malay University, Malaysia.
The abstract title is: Genetic influences of UDP-Glucuronosyltransferase genes on 20-HETE glucuronidation in human liver microsome.

-15/12/2011: First prize of superior oral presentation in the ninth Annual Inje English Paper and Poster Contest. Inje University, South Korea.

8. Fellowships and Scholarships

- Post-doctoral fellowship, College of Medicine, Inje University, South Korea (2015).

9. Teaching Experience

- ***Graduate Courses***

1. Advanced Pharmacology for Nurse Students

- ***Undergraduate Courses***

1. Pharmacology 1
2. Pharmacology 2
3. Pharmacology 3
4. Pharmacology lab
5. Clinical Pharmacy lab, medical cases



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6. Biotechnology

10. Supervision of Graduate Research

1. Abdul-Qader Abed, The Protective Effect of Metformin Against Oxandrolone-Induced Infertility, Hepatotoxicity, and Depression. 2020. Main supervisor.
2. Maysoon Khamais, The Association of Epoxide Hydrolyase Genetic Variants with Hypertension Among Type II Diabetic Patients. 2020. Main supervisor.
3. Sara Abdullah, The Influence Of Endothelial Nitric Oxide Synthase (Enos) Genetic Polymorphisms On Cholesterol Blood Levels Among Type 2 Diabetic Patients On Atorvastatin Therapy. 2020. Main supervisor.
4. Eyada Hneet, How the cytochrome 7a1 (CYP7A1) and ATP-binding cassette G8 (ABCG8) genetic variants affect atorvastatin response among type 2 diabetic patients attending the University of Jordan Hospital. 2020. Main supervisor.
5. Ayat Balasmeh, Identification of Novel Genetic Variant on N-Acetyltransferase 2 Gene (NAT2) with In Silico Functionality among Jordanian Population, 2017. Main supervisor.
6. Abdul hasib Kilani, Alterations in the gene expression of drug and arachidonic acid-metabolizing Cyp450 in the livers of controlled and uncontrolled insulin-dependent diabetic mice, 2018. Main supervisor.
7. Maria ghishan, The Nudix Hydrolase 15 (NUDT15) Gene Variants among Jordanian Arab Population, 2018. Main supervisor.
8. May AL-Majawleh, DNA Methylation Levels and the Effect on Gene Expression of Several Genes Involved in Breast Cancer Using PCR Array, 2016. Co-supervisor.

11. Grants

1. Identification of the cardiotoxicity mechanism of rosiglitazone drugs in mouse hearts, 2020, Al-Zaytoonah University of Jordan, 8,000 JD.
2. *DNA Methylation of Different Genes in Breast Cancer Cell Lines and the Effect on Gene Expression in Response to Several Chemotherapy Agents*, 2016, Al-Zaytoonah University of Jordan, 72,700 JD.
3. *Chronic Hypoxic MCF7 Breast Cancer Cell line: Tracking the Alterations on Cellular Metabolism Level, Scientific Research Support/Ministry of High Education*, 2017, 28,400 JD.
4. *Effects of Non-Steroidal Anti-Inflammatory Drugs on The Gene Expression of Arachidonic Acid Metabolizing Enzymes in Mice Hearts*, 2018, King Abdullah II Center for Investment and Development, 4,000 JD.

12. Patents



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- Not Applicable

13. Membership of Committees

- **National and International:**
 - **Examination Committee of the following postgraduate students:**
 - 1) *Biological Evaluation of the antimicrobial and antihyperlipidemic activity of novel 3,5-disubstitutedamido - 1,2,4-thiadiazole and 2,5-disubstitutedamido -1,3,4-thiadiazole, Luma Adel Abd Al-Samed, ALZaytoonah University of Jordan, 2017.*
 - 2) *Design, Synthesis and In Vivo Biological Evaluation of Novel Benzimidazole-2-carboxamide Derivatives as Antihyperlipidemic Agents, Hanin Mohammad K. Kalloush, Al-Zaytoonah University of Jordan, 2016.*
 - 3) *Design, Synthesis, and Biological Evaluation of Benzoin Schiff's Bases as Antitumor Agents, Fatima Mahmoud Al-Tarawneh, AlZaytoonah University of Jordan 2016.*
- **University:**
 - *Safety and Community Service committee (chair).*
 - *Laboratory animal ethics committee (member).*
 - *The Committee for Curriculum and Educational Resources, a Faculty committee (member).*
 - *The Committee for Curricular Equivalence and Academic Advisement, and Training, and Alumni Follow-up, a Faculty committee (member).*

14. Professional and Scientific Meetings

Scientific Meetings Organized

- *Pharmacogenomic Testing: Toward Personalized Therapy, ACDEMA, Amman, Jordan, 2th to 3th of August, 2019.*
- *Academic Exchange program in Poweslanski University, Kwidzyn, Poland, 20th to 25th May, 2019.*
- *Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2017), Amman, Jordan, 29th to 30th of November, 2017.*
- *Al-Zaytoonah University of Jordan & The University of Toledo International Pharmaceutical Conference (ZTIPC 2015), Amman, Jordan, 27th to 29th of October, 2015.*



15. Participation in or organization of curricular and/or extra-curricular activities

- Free medical service day, Islamic College, 27/4/2018.
- Career Day for 5th year students in March, 2018, in Al-Zaytoonah University of Jordan campus.

16. Publications

- Papers in refereed journals:

Jarrar Y, Al-Doaiss A, Alfaifi M, Shati A, Al-Kahtani M, Jarrar B. The influence of five metallic nanoparticles on the expression of major drug-metabolizing enzyme genes with correlation of inflammation in mouse livers. *Environ Toxicol Pharmacol*. 2020;80:103449. doi: 10.1016/j.etap.2020.103449.

Abed AF, **Jarrar YB**, Al-Ameer HJ, Al-Awaida W, Lee SJ. The Protective Effect of Metformin against Oxandrolone-Induced Infertility in Male Rats. *Curr Pharm Des*. 2020. doi: 10.2174/1381612826666201029101524.

Alhawari H, **Jarrar Y**, AlKhatib MA, Alhawari H, Momani M, Zayed A, Alkamdawi R, Zihlif M. The Association of 3-Hydroxy-3-Methylglutaryl-CoA Reductase, Apolipoprotein E, and Solute Carrier Organic Anion Genetic Variants with Atorvastatin Response among Jordanian Patients with Type 2 Diabetes. *Life (Basel)*. 2020;10(10):232. doi: 10.3390/life10100232.

Abdullah S, **Jarrar Y**, Alhawari H, Hneet E, Zihlif M. The Influence Of Endothelial Nitric Oxide Synthase (Enos) Genetic Polymorphisms On Cholesterol Blood Levels Among Type 2 Diabetic Patients On Atorvastatin Therapy. *Endocr Metab Immune Disord Drug Targets*. 2020. doi: 10.2174/1871530320666200621174858.

Abed E, **Jarrar Y**, Alhawari H, Abdullah S, Zihlif M. How the cytochrome 7a1 (CYP7A1) and ATP-binding cassette G8 (ABCG8) genetic variants affect atorvastatin response among type 2 diabetic patients attending the University of Jordan Hospital. *Int J Clin Pharmacol Ther*. 2020 Oct 19. doi: 10.5414/CP203779. Epub ahead of print.

Mahmoud IS, **Jarrar YB**, Alshaer W, Ismail S. SARS-CoV-2 entry in host cells-multiple targets for treatment and prevention. *Biochimie*. 2020;175:93-98.



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Al Bawab AQ, Zihlif M, **Jarrar Y**, Sharab A. Continuous Hypoxia and Glucose Metabolism, The Effects on Genes Expression in MCF7 Breast Cancer Cell Line. *Endocr Metab Immune Disord Drug Targets*. 2020. doi: 10.2174/1871530320666200506082020.

Jarrar YB, Shin JG, Lee SJ. Identification and functional characterization of CYP4V2 genetic variants exhibiting decreased activity of lauric acid metabolism. *Ann Hum Genet*. 2020. doi: 10.1111/ahg.12388.

Sobiahe A, Hijazi E, Al-Ameer HJ, Almasri Y, **Jarrar Y**, Zihlif M, Shomaf M, Al-Rawashdeh B. Arg399Gln XRCC1 Polymorphism and Risk of Squamous Cell Carcinoma of the Head and Neck in Jordanian Patients. *Asian Pac J Cancer Prev*. 2020;21(3):663-665.

Jarrar YB, Kim DH, Lee SJ, Shin JG. Inhibition of 20-hydroxyeicosatetraenoic acid (20-HETE) glucuronidation by non-steroidal anti-inflammatory drugs in human liver microsomes and recombinant UDP-glucuronosyltransferase enzymes. *Prostaglandins Leukot Essent Fatty Acids*. 2020;153:102055.

Khdair SI, Jarrar W, **Jarrar YB**, Bataineh S, Al-Khaldi O. Association of HLA-DRB1 and -DQ alleles and haplotypes with Type 1 Diabetes in Jordanians. *Endocr Metab Immune Disord Drug Targets*. 2019. doi: 10.2174/1871530319666191119114031. [Epub ahead of print]

Jarrar Y, Zihlif M, Al Bawab AQ, Sharab A. Effects of Intermittent Hypoxia on Expression of Glucose Metabolism Genes in MCF7 Breast Cancer Cell Line. *Curr Cancer Drug Targets*. 2020;20(3):216-222.

Jarrar Y, Jarrar Q, Abu-Shalhoob M, Abed A, Sha'ban E. Relative Expression of Mouse Udp-glucuronosyl Transferase 2b1 Gene in the Livers, Kidneys, and Hearts: The Influence of Nonsteroidal Anti-inflammatory Drug Treatment. *Curr Drug Metab*. 2019;20(11):918-923.

Jarrar Y, Mosleh R, Hawash M, Jarrar Q. Knowledge And Attitudes Of Pharmacy Students Towards Pharmacogenomics Among Universities In Jordan And West Bank Of Palestine. *Pharmgenomics Pers Med*. 2019;12:247-255.

Jarrar YB, Lee SJ. Molecular Functionality of Cytochrome P450 4 (CYP4) Genetic Polymorphisms and Their Clinical Implications. *International Journal of Molecular Sciences*. 2019;20(17). pii: E4274.

Y Jarrar. Perception of Primary Care Physicians' Toward Pharmacogenetics in Jordan. *Jordan Medical Journal*. 2019; 53 (2), 81-89



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AA Al-Doaiss, **YB Jarrar**. Investigation of in vivo protective effect of orally administered vitamin E and selenium against gentamicin-induced renal and hepatic toxicity. **Tropical Journal of Pharmaceutical Research**. 2019; 18 (7): 1435-1442.

Jarrar YB, Ghishan. The Nudix Hydrolase 15 (NUDT15) Gene Variants among Jordanian Arab Population. **Asian Pacific Journal of Cancer Prevention**. 2019; 20(3):801-808.

Jarrar YB, Jarrar Q, Abed A, Abu-Shalhoob M. Effects of nonsteroidal anti-inflammatory drugs on the expression of arachidonic acid-metabolizing Cyp450 genes in mouse hearts, kidneys and livers. **Prostaglandins Other Lipid Mediat**. 2019 11;141:14-21.

Jarrar YB, Al-Essa L, Alkilani A, Hasan M, Al-Qerem W. Alterations in the gene expression of drug and arachidonic acid-metabolizing Cyp450 in the livers of controlled and uncontrolled insulin-dependent diabetic mice. **Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy**. 2018; 11:483-492.

MI Almansour, **YB Jarrar**, BM Jarrar. In vivo investigation on the chronic hepatotoxicity induced by sertraline. **Environmental Toxicology and Pharmacology** 2018; 61(7)107- 115.

Hamadneh L, Al-Majawleh M, **Jarrar YB**, Shraim S, Hasan M, Abu-Irmaileh B. Culturing conditions highly affect DNA methylation and gene expression levels in MCF7 breast cancer cell line. **In Vitro Cell Dev Biol Anim**. 2018;54(5):331-334.

Jarrar YB, Balasmeh AA, Jarrar W. Sequence analysis of the N-acetyltransferase 2 gene (NAT2) among Jordanian volunteers. **Libyan J Med**. 2018 ;13(1):1408381.

N Hakooz, **YB Jarrar**, M Zihlif, A Imraish, S Hamed, T Arafat. Effects of the genetic variants of organic cation transporters 1 and 3 on the pharmacokinetics of metformin in Jordanians. **Drug Metabolism and Personalized Therapy**. 32 (3), 157-162

RSA Mosleh, **YB Jarrar**, S Zyoud, DE Morisky. Factors Related to Diabetes Self-Care Management Behaviors Among Patients with Type II Diabetes in Palestine. **Journal of Applied Pharmaceutical Science** 2017; 7 (12), 102-10

RS Mosleh, NA Aziz, SM Ali, MM Manan, S ZYOUD, IM Shah, **YB Jarrar**. (2017). Predictors of good glycemic control among type II diabetes patients in Palestine. **Asian Journal of Pharmaceutical and Clinical Research**. 10 (9), 341-34

Y Jarrar. (2017) The Effect of Cigarette Smoking on the Production of 20-Hydroxyeicosatetraenoic Acid in Human Platelet. **International Journal of Research in Ayurveda and Pharmacy** 8 (2), 66-69



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Jarrar YB, L Hamadneh, W Naser.(2017) The Frequency Of Vitamin K Epoxide Reductase Complex-1639g> A Genetic Variant Among Healthy Unrelated Jordanian Volunteers. **Pharmacologyonline** 13(1), 106-112

MI Almansour, **Jarrar YB**, KA Aloyaidy, BM Jarrar. (2017) Ameliorative Effect of Propolis Against Hepatorenal Alterations Induced by Methotrexate: Morphohistopathological Study. **International Journal of Morphology** 35 (2), 756-764

Jarrar YB, Hamadneh L, Zihlif M (2017). The Cytochrome 4F2 rs2108622 Genetic Variant among Unrelated Arab Jordanian Volunteers. **Jordan Medical Journal**. 51 (2), 69-76

Jarrar YB, Kherfan F, Obaid A, Hamadneh L, Al-Bawab AQ (2016). The Frequency of UGT2B7*2 (802C>T) Allele among Healthy Unrelated Jordanian Volunteers. **J Drug Metab Toxicol** 2016, 7: 218

Almansour M, **Jarrar YB**, Jarrar BM, (2016). Propolis protective Role Against Morphological, Hormonal Biochemic.l and Histological Alterations Induced by Sildenafil Overdoses. **Int. J. Morphol.** 34(2):533-540,

Cho SA, Rohn-Glowacki KJ, **Jarrar YB**, Yi M, Kim WY, Shin JG, Lee SJ. (2015). Analysis of genetic polymorphism and biochemical characterization of a functionally decreased variant in prostacyclin synthase gene (CYP8A1) in humans. **Arch Biochem Biophys**. 569C:10-18. (*Impact factor:3.05*)

Jarrar YB, Cha EY, Seo KA, Ghim JL, Kim DH, Kim HJ, Lee SJ, Shin JG. (2014). Determination of major UDP-glucuronosyltransferase enzymes and their genotypes responsible for 20-HETE glucuronidation.. **J Lipid Res**; 55(11):2334-42. (*Impact factor:4.3*)

Jarrar YB, Lee SJ. (2014). Molecular functionality of CYP2C9 polymorphisms and their influence on drug therapy. **Drug Metabol Drug Interact.**;29(4):211-20.

Jarrar YB, Cho SA, Oh KS, Kim DH, Shin JG, Lee SJ. (2013). Identification of cytochrome P450s involved in the metabolism of arachidonic acid in human platelets. **Prostaglandins Leukot Essent Fatty Acids**; 89(4):227-34. (*Impact factor:2.7*)

Jarrar YB, Shin JG, Lee SJ. (2013). Expression of arachidonic acid-metabolizing cytochrome P450s in human megakaryocytic Dami cells. **In Vitro Cell Dev Biol Anim** ;49(7):492-500. (*Impact factor:1.3*)

Irshaid YM, Abujbara MA, Ajlouni KM, El-Khateeb M, **Jarrar YB**. (2013). N-acetyltransferase-2 genotypes among Jordanian patients with diabetes mellitus. **Int J Clin Pharmacol Ther**;51(7):593-9. (*Impact factor:1.13*)



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Lee SJ, Kim WY, **Jarrar YB**, Kim YW, Lee SS, Shin JG. (2013). Single nucleotide polymorphisms in SULT1A1 and SULT1A2 in a Korean population. **Drug Metab Pharmacokinet**;28(4):372-7. (*Impact factor:2.01*)

Lee SJ, Kwon JA, Cho SA, **Jarrar YB**, Shin JG. (2012). Effects of testosterone and 17 β -oestradiol on expression of the G protein-coupled receptor P2Y12 in megakaryocytic DAMI cells. **Platelets**; 23(8):579-85. (*Impact factor:2.63*)

Jarrar, B.M, M.M. Alenezi, A. Al-Hiri, **Jarrar Y. B.** (2012). Hepatic and Renal Histological Alterations Induced by Topical Hydroquinone Administration. **Am j pharmacol and toxicol**; 7(1):19-26. (*Impact factor:0.44*)

Jarrar YB. (2011). Problem-Based Clinical Cases Increase the Level of Pharmacology Education for Physiotherapy Students, **Am Med J**; 2(1):29-31.

Jarrar YB. (2011). Pharmaceutical practice and selling of drugs during Ramadan . **Libyan J. Med.**; 6:5775. (*Impact factor:1.33*)

Jarrar YB, Ismail S, Irshaid Y.(2010). N-acetyltransferase 2 genotype among unrelated Jordanian volunteers. **Int J Clin Pharmacol Ther**; 48(10):688-94. (*Impact factor:1.13*)

Jarrar YB .(2010). No Association Between NAT2 Genotype and Gender Among Caucasians. **pharmacologyonline**. 2(1): 1072-1078. (*Impact factor:0.16*)

- Books and Book Chapters:
 - Not Applicable
- Conference Presentations:

Title: 4th Summer School of European Association of Pharmacogenomics and Personalized Medicine (ESPT18).

Date: 24th - 27th September

Place: Geneva Medical School, Geneva, Switzerland

Mode of Participation: Poster

Alterations in the gene expression of drug and arachidonic acid-metabolizing Cyp450 in the livers of controlled and uncontrolled insulin-dependent diabetic mice.



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Title: European Association of Pharmacogenomics and Personalized Medicine (ESPT17):
Pharmacogenomics and Personalized Medicine

Date: 4th - 7th October

Place: Landmark Hotel, Catania, Italy

Mode of Participation: Poster

Identification of Novel Genetic Variant on N-acetyltransferase 2 (*NAT2*) Gene with In Silico Functionality among Jordanian Population

Title: 1st International Conference of Al Bashir Hospital

Date: 31ST March- 2ND April

Place: Landmark Hotel, Amman, Jordan

Mode of Participation: Speaker

The Potential Interaction between Non-Steroidal Anti-Inflammatory Drugs and 20-Hydroxyeicosatetraenoic Acid in Human Liver Microsomes

Title: 2015 American Society of Clinical Pharmacology and Therapeutics Annual Meeting

Date: 2015-03-03 to 2015-03-07.

Place: Hyatt Regency, New Orleans, LA.

Mode of participation: Poster.

Yazun Jarrar, Cho SN, Park JS, Yi MJ, Kim WY, Lee SJ, Shin JG: Identification and Functional Studies of CYP4V2 Variants Among Korean Population.

Title: 2014 Korean Clinical Pharmacology and Therapeutics

Date: 2014-11-17 to 2014-11-18.

Place: Haeundae Paik Hospital, Busan, South Korea.

Mode of participation: Poster.

Yazun Jarrar, Cho SN, Park JS, Yi MJ, Kim WY, Lee SJ, Shin JG: Genetic finding and functional study of Cytochrome 4V2 (CYP4V2) gene in Korean population.

Title: 19th North American ISSX Meeting / 29th JSSX Meeting.



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Date: 2014-10-19 to 2014-10-23.

Place: Hilton San Francisco| San Francisco, California, USA.

Mode of participation: Poster.

Yazun Jarrar, Cha EY, Seo KA, Ghim JL, Kim DH, Kim HJ, Lee SJ, Shin JG:

Determination of major UDP-glucuronosyltransferase enzymes and their genotypes responsible for 20-HETE glucuronidation..

Title: 2014 International Conference on Pharmacogenomics.

Date: 2014-02-20 to 2014-02-20.

Place: Yonsei University| Seoul, South Korea.

Mode of participation: Attendance.

Title: 2013 Joint Meeting of Coronary Revascularization (JCR).

Date: 2013-12-13 to 2013-12-14.

Place: Haeundae, Novotel| Busan, South Korea.

Mode of participation: Attendance.

Title: The XIII International Congress of Toxicology (ICT2013).

Date: 2013-06-30 to 2013-07-04.

Place: COEX Hotel | Seoul, South Korea.

Mode of participation: Attendance.

Title: American Society for Clinical Pharmacology and Therapeutics 2013 Annual Meeting.

Date: 2013-03-05 to 2013-03-09.

Place: JW Marriott Hotel, Indianapolis, USA.

Mode of participation: Poster.

Yazun Jarrar, Oh KS, Cha EY, Kim YR, Kim YW, Kim DH, Kim HJ, Lee SJ, Shin JG.

Effect of UDP-glucuronosyltransferase 1A3, 1A9 and 2B7 genetic polymorphisms on 20-HETE glucuronidation in human liver tissues.



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Title: The 21st Korea-Japan Joint Seminar in Pharmacology

Date: 2012-10-31 to 2012-11-02

Place: ShineVille Luxury Resort, Jeju, South Korea.

Mode of participation: Poster.

Su-Jun Lee, Yazun Jarrar and Jae-Gook Shin: Discovery of cytochrome P450s in human platelets and their potential roles in cardiovascular complications.

Title: 19th MDO and 12th European Regional International Society for the Study of Xenobiotics Meeting.

Date: June 17–21, 2012.

Place: Grand Hotel Huis ter Duin | Noordwijk aan Zee, the Netherlands.

Mode of participation: Two posters.

- Yazun B. Jarrar, Sun-Ah Cho, Dhananjay Shinde, Dong-Hyun Kim, Jae-Gook Shin, Su-Jun Lee: *Identification and functional studies of cytochrome P450s in human platelets.*

- Su-Jun Lee, Jeong-Ah Kwon, Sun-Ah Cho, Yazun B Jarrar, Woo-Young Kim, Jae-Gook Shin: *Regulation of P2Y12 expression by testosterone in magakaryotic Dami cells.*

- Reports
 - Not Applicable