

CURRICULUM VITAE

YACOUB IRSHAID

MD, PhD, ABCP Diplomate

BIOGRAPHICAL

NAME: YACOUB M. IRSHAID

BIRTH DATE: August 10, 1954 **BIRTH PLACE:** Seir

MARITAL STATUS: Married

CITIZENSHIP: Jordanian

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EDUCATION AND TRAINING

UNDERGRADUATE:

Dates Attended: 1972-1980 (Including Premed.)

Name and Location of Institution: University of Jordan, Faculty of Medicine, Amman, Jordan

Degree Received And Year: M. B., B. S. (MD), 1980.

Major Subject: Medicine & Surgery

GRADUATE:

Dates Attended: 1982-1986.

Name of Institution and Location: Department of Pharmacology, University of Iowa, Iowa City, Iowa, USA

Degree Received And Year: PhD, 1986.

Major Subject: Pharmacology.

TRAINING:

Dates Attended: Sep. 16, 1992 - Aug 15,1993

Name Of Institution And Location: Center for Clinical Pharmacology
University of Pittsburgh
Medical Center Pittsburgh,
PA, USA.

Program: Clinical Pharmacology.

**Credentialed in “Applied Pharmacology”
by The "American Board of Clinical Pharmacology" on July, 1994.**

APPOINTMENTS AND POSITIONS

ACADEMIC:

- 1. Professor of Pharmacology, Department of Pharmacology, Faculty of Medicine, University of Jordan , Amman, Jordan.
September 18, 2005 To Present.**
- 2. Professor of Pharmacology, Department of Clinical Pharmacology, College of Medicine, King Khalid University, P. O. Box 641, Abha, Kingdom of Saudi Arabia.
August 28, 1999 to August 21, 2005.**
- 3. Professor of Pharmacology, Department of Pharmacology & Therapeutics, Faculty of Medicine, Al Quds University, Jerusalem.
February 1, 1997 to August 27, 1999.**
- 4. Professor of Pharmacology, Department of Pharmacology, Faculty of Medicine, Jordan University of Science & Technology, Irbid, Jordan.
December 1, 1996 To January 31, 1997.**
- 5. Associate Professor of Pharmacology, Department of Pharmacology, Faculty of Medicine, Jordan University of Science & Technology, Irbid, Jordan.
September 1, 1991 To November 30, 1996.**
- 6. Visiting Research Associate in Medicine, Center for Clinical Pharmacology, Department of Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA 15261, USA.
September 16, 1992 To August 15, 1993.**
- 7. Assistant Professor Of Pharmacology, Department of Pharmacology, Faculty of Medicine, Jordan University Of Science & Technology, Irbid, Jordan.
September 1, 1986 To August 31,1991.**
- 8. Full-Time Lecturer, Dept. Of Pharmacology, Faculty of Medicine, University of Jordan, Amman, Jordan.
September 8, 1981 To September 15, 1982.**
- 9. Internship Year Training, Jordan University Hospital, Amman, Jordan.
July 1, 1980 To June 30, 1981.**

NONACADEMIC (ADMINISTRATIVE):

- 1. Chairman, Department of Pharmacology, Faculty of Medicine, University of Jordan , Amman, Jordan.
September 10, 2006 To Present.**
- 2. Assistant Dean, Faculty of Medicine, Al-Quds University, Abu Dies, Jerusalem.
September 1, 1998 to August 27, 1999.**
- 3. Chairman, Department of Pharmacology & Therapeutics, Faculty of Medicine, Al Quds University, Abu Dies, Jerusalem.
September 1, 1996 To August 27, 1999.**
- 4. Acting Chairman, Department of Pharmacology, Faculty of Medicine, Jordan University of Science & Technology.
January 29, 1994 To January 31, 1997.
June 29, 1991 to August 31, 1992.**
- 5. Director, Jordan University of Science and Technology Health Center.
September 15, 1990 To June 28, 1991.**
- 6. Assistant Dean of Student Affairs, Jordan University of Science & Technology.
September 15, 1989 To September 14, 1990.**

CERTIFICATION AND LICENSURE

- 1. Unrestricted License To Practice Medicine In Jordan, 1981.**
- 2. ECFMG Certificate, 1983.**
- 3. Iowa FLEX (Passed), 1983.**

MEMBERSHIP IN PROFESSIONAL, SCIENTIFIC AND OTHER SOCIETIES

- 1. Jordan Medical Association, Amman, Jordan. July 1981 To Present.**
- 2. Jordanian Alumni Society, Graduates of U. S. Universities and Institutes, 1988 To Present.**
- 3. American Society for Clinical Pharmacology and Therapeutics, USA, July 1993 To 2008.**
- 4. Jordanian Environment Society, Amman, Jordan. January 16, 1994 To Present.**
- 5. International Association of Therapeutic Drug Monitoring and Clinical Toxicology (IATDMCT). January 2005 To Present.**
- 6. The Royal Society for the Conservation of Nature – Jordan . 2004 to present**

SCHOLARSHIPS AND AWARDS

Scholarships:

A 4-Year Scholarship to study for Ph.D in Pharmacology by Yarmouk University, Jordan, At the University Of Iowa, Iowa City IA, USA. From August 1982 To August 1986.

Awards:

- 1. Abdul Hameed Shoman Award for Young Arab Scientists, 1994.**
- 2. Fulbright Postdoctoral Research Grant 1992/1993.**

3. **Eli Lilly and Company Graduate Student Travel Award for the 1985 ASPET Meeting in Boston.**

Distinction:

1. **Selected by Medical Students as the “Best Professor” in Basic Medical Sciences for the Year 2001, at College of Medicine and Medical Sciences, King Khalid University, Abha, Kingdom of Saudi Arabia.**
2. **Biographical record of “Who’s Who in Medicine and Healthcare”, Sixth Edition, 2006-2007.**

Other Activities

1. **Regional editor of "International Journal of Pharmacology".**
2. **Reviewer of Research Grants Proposals Submitted for King Abdulaziz City for Science & Technology (KACST), Riyadh, Saudi Arabia.**
3. **Review of articles submitted for publication to Saudi Medical Journal**

PUBLICATIONS

A. REFEREED ARTICLES:

1. Mitchell D. Green, Yacoub Irshaid and Thomas R. Tephly.
The formation Of N-glucuronides catalyzed by purified hepatic 17 β -hydroxysteroid and 3 α -hydroxysteroid UDP-glucuronyltransferases.
In " Advances In Experimental Medicine And Biology", Vol.197:399-405,1986.
2. Yacoub M. Irshaid and Thomas R. Tephly.
Isolation and purification of two human liver UDP-glucuronosyltransferases.
Molecular Pharmacology 31:27-34,1987.
3. Anna Radomska-Pyrek, Piotr Zimniak, Yacoub M. Irshaid, Roger Lester, Thomas R. Tephly and Jan St.Pyrek.
Glucuronidation of 6 α -hydroxy bile acids by human liver microsomes.
Journal Of Clinical Investigation 80:234-241,1987.
4. Mitchell D. Green, Birgit L. Coffman, Yacoub M. Irshaid and Thomas R. Tephly. Characterization of antibodies to a rabbit hepatic UDP-glucuronosyltransferase and the identification of an immunologically similar enzyme in human liver.
Archives of Biochemistry and Biophysics 262(1):367-374,1988.
5. T.R. Tephly, B.L. Coffman, C.N. Falany, M.D. Green, Y. Irshaid, J.F. Puig, S.A. Knapp and J. Baron.
Purification and characterization of mammalian UDP-glucuronosyltransferases.
In" Microsomes and Drug Oxidation ". Edited by J. Miners, D. J. Birkett, R. Drew and M. McManus.(Taylor and Francis), pp263-270,1988.
6. Thomas Tephly, Mitchell Green, Jaime Puig and Yacoub Irshaid.
Endogenous substrates for UDP-glucuronosyltransferases.
Xenobiotica 18(11):1201-1210,1988.
7. Birgit L. Coffman, Thomas R. Tephly, Yacoub M. Irshaid, Mitchell D. Green, Christine Smith, Michael R. Jackson, Richard Wooster and Brian Burchell.
Characterization and primary sequence of a human hepatic microsomal estriol UDP-glucuronosyltransferase.
Archives of Biochemistry and Biophysics 281(1):170-175,1990.

8. **Y.M. Irshaid, K.I. Gharaybeh, F.F.Ammari and N.M. Rawashdeh.**
Glucuronidation Of 7-hydroxy-4-methylcoumarin by human liver microsomes. Inhibition by certain drugs.
European Journal Of Drug Metabolism And Pharmacokinetics 15(4):295-301,1990.
9. **Yacoub M. Irshaid, Anna Radomska, Piotr Zimniak, Andrzej Zimniak, Roger Lester and Thomas R. Tephly.**
Glucuronidation of monohydroxylated short chain bile acids by human liver microsomes and purified human liver UDP-glucuronosyltransferases.
Drug Metabolism and Disposition 19(1):173-177,1991.
10. **Yacoub Irshaid and Kamal Gharaybeh.**
Glucuronidation of 7-hydroxy-4-methylcoumarin by microsomes from normal and diseased human livers.
Pharmacology and Toxicology 68:212-214,1991.
11. **M. A. Abuirjeie, Y. M. Irshaid, H. F. Al-Hadidi and N. M. Rawashdeh.**
Simultaneous high performance liquid chromatographic determination of dapsone and monoacetyldapsone in human plasma and urine.
Journal of Clinical Pharmacy and Therapeutics 16:247-255,1991.
12. **Yacoub M. Irshaid, Hakam F. Al-Hadidi, Mustafa A. Abuirjeie and Nayel M. Rawashdeh.** N-Acetylation phenotyping using dapsone in a Jordanian population.
British Journal of Clinical Pharmacology 32:289-293,1991.
13. **Yacoub Irshaid, Hakam Al-Hadidi, Mustafa Abuirjeie, Ali Latif, Omar Sartawi and Nayel Rawashdeh.**
The acetylator phenotypes of Jordanian diabetics.
European Journal of Clinical Pharmacology 43(6):621-623,1992.
14. **Yacoub Irshaid and Mahmood Abu-Khalaf.**
Lack of effect of certain histamine H₂-receptor blockers on the glucuronidation of 7-Hydroxy-4-methylcoumarin by human liver microsomes.
Pharmacology and Toxicology 71:294-296,1992.
15. **Y. M. Irshaid, H. F. Al-Hadidi, M. A. Abuirjeie, N. M. Rawashdeh and N. S. Gharaibeh.** Acetylation of dapsone by human whole blood.
International Journal of Clinical Pharmacology, Therapy and Toxicology. 31(1):18-22,1993.

16. **Y. M. Irshaid, H. F. Al-Hadidi and N. M. Rawashdeh.**
Lack of association between glucose-6-phosphate dehydrogenase deficiency and dextromethorphan O-demethylation polymorphism.
European Journal of Clinical Pharmacology 44:303-304,1993.
17. **Nayel M. Rawashdeh, Hakam F. Al-Hadidi, Yacoub M. Irshaid and Abdel-Kader H. Battah.**
Gastrointestinal dialysis of Digoxin by cholestyramine.
Pharmacology and Toxicology 72:245-248,1993.
18. **Y. M. Irshaid, H. F. Al-Hadidi and N. M. Rawashdeh.**
Dextromethorphan O-demethylation polymorphism in Jordanians.
European Journal of Clinical Pharmacology 45:271-273,1993.
19. **Yacoub Irshaid, Adedayo Adedoyin, Michael Lutze and Robert A. Branch.**
Monoacetyldapsone inhibition of dapsone N-hydroxylation by human and rat liver microsomes.
Drug Metabolism and Disposition 22(1):161-164,1994.
20. **Hakam F. Hadidi, Suzanne Cholerton, Sophia C. Monkman, Martin Armstrong, Yacoub M. Irshaid, Nayel M. Rawashdeh, Ann K. Daly and Jeffrey R. Idle.** Debrisoquine 4-hydroxylation (CYP2D6) polymorphism in Jordanians.
Pharmacogenetics 4:159-161,1994.
21. **H. F. Al-Hadidi, Y. M. Irshaid and N. M. Rawashdeh.** Metoprolol α -hydroxylation is a poor probe for debrisoquine oxidation (CYP2D6) polymorphism in Jordanians.
European Journal of Clinical Pharmacology. 47:311-314,1994.
22. **H. F. Hadidi, S. Cholerton, S. Atkinson, Y. M. Irshaid, N. M. Rawashdeh and J. R. Idle.** The N-oxidation of trimethylamine in a Jordanian population.
British Journal of Clinical Pharmacology. 39:179-181,1995.
23. **Y. M. Irshaid, N.M. Rawashdeh, F. Zghoul, I. Jalal and N. M. Najib.**
Comparative Pharmacokinetics of 2 brands of cefuroxime following a single intramuscular injection.
Int. Journal of Clinical Pharmacology and Therapeutics. 33(5):285-293,1995.

24. **Hakam F. Hadidi, Yacoub M. Irshaid, Raymond L. Woosley, Jeffrey R. Idle, and David A. Flockhart. S-Mephenytoin hydroxylation phenotypes in a Jordanian population.**
Clinical Pharmacology & Therapeutics. 58:542-547,1995.
25. **Yacoub Irshaid, Robert A. Branch And Adedayo Adedoyin. Metabolic interactions of putative cytochrome P4503A substrates with alternative pathways of dapsone metabolism in human liver microsomes.**
Drug Metabolism and Disposition. 24(2):164-171, 1996.
26. **Y. M. Irshaid, N. M. Rawashdeh, F. F. Awwadi and M. K. Kato. Comparative pharmacokinetics of two brands of atenolol following a single oral administration.**
Int. Journal of Clinical Pharmacology and Therapeutics. 34(10):457-461,1996.
27. **Y. M. Irshaid, H. F. AL-Hadidi, A. Latif, F. Awwadi, M. Al-Zoubi And N. M. Rawashdeh. Dextromethorphan metabolism in Jordanians: Dissociation of dextromethorphan O-demethylation from debrisoquine 4-hydroxylation.**
European Journal of Drug metabolism and Pharmacokinetics. 21(4):301-307,1996.
28. **Rawashdeh NM, Battah AH, Irshaid YM, and Al Qato MK. Comparative pharmacokinetics of two nifedipine products in capsule form following single oral administration in healthy volunteers.**
European Journal of Drug metabolism and Pharmacokinetics. 22(3):259-264,1997.
29. **Hadidi H, Irshaid. Y, V°agb' CB, Brunsvik A, Cholerton S, Zahlsen K, Idle JR.**
Variability of coumarin 7- and 3-hydroxylation in a Jordanian population is suggestive of a functional polymorphism in cytochrome P450 CYP2A6.
European Journal of Clinical Pharmacology. 54(5):427-441,1998.
30. **Yacoub M. Irshaid, Anwar A. Hamdi and Mohammed Al Homrany. Evaluation of Therapeutic Drug Monitoring of Antiepileptic Drugs.**
Int. Journal of Clinical Pharmacology and Therapeutics. 41(3):126-131, 2003.
31. **Yacoub M. Irshaid, Anwar A. Hamdi and Mohammed Al Homrany. Appropriateness of Requests for Therapeutic Drug Monitoring of Antiepileptic Drugs.**
Clinical Laboratory 50(3+4):223-228, 2004.
32. **Yacoub M. Irshaid, Mohammed Al Homrany, Anwar A. Hamdi, Keneth K. Adjepon-Yamoah and Ahmed A. Mahfouz. A Pharmacoepiemiological Study of Prescription Pattern in Outpatient Clinics of a Teaching Hospital in Southwestern**

- Saudi Arabia. *Saudi Medical Journal* 25(12):1864-1870, 2004.
33. **Yacoub M. Irshaid**, Mohammed Al Homrany, Anwar A. Hamdi, Keneth K. Adjepon-Yamoah and Ahmed A. Mahfouz. Compliance with the Legal Elements of Prescriptions in Outpatient Clinics of a Teaching Hospital in Southwestern Saudi Arabia. *Eastern Mediterranean Health Journal* 11(5/6):922-928,2005.
 34. Mohammed Al-Shehri and **Yacoub Irshaid**. Snake bites and Scorpion stings in Children: an audit of cases admitted to Asir Central Hospital, South-western Saudi Arabia. *Middle East Paediatrics* 10(1):18-24,2005.
 35. **Yacoub M. Irshaid**, Mohammed A. Al Homrany, and Anwar Hamdi. An Epidemiological Study of Prescription Pattern for Upper Respiratory Tract Infections in a Tertiary Health Care Center in Southwestern Saudi Arabia. *Saudi Medical Journal* 26(10):447-449,2005.
 36. Mohammed A. Al Homrany and **Yacoub M. Irshaid**. Pharmacoepidemiological Study of Prescription Pattern of Analgesics, Antipyretics, and Nonsteroidal Antiinflammatory Drugs at a Tertiary Health Care Center. *Saudi Medical Journal*. Vol. 28 (3): 369-374, 2007.
 37. Mohammed A. Al-Homrany, **Yacoub M. Irshaid**, Assem K. El Sherif and Haider A. Omar. Pharmacokinetics of Gentamicin in Hemodialysis Patients: A Comparative Study Between Diabetic and Non-diabetic Patients. *International Urology and Nephrology*, 41:663-669, 2009 (Published online September 2008).
 38. Ibraheem D. Al-Deeb, Tawfeeq A. Arafat and **Yacoub M. Irshaid**. The Effect of Licorice Drink on the Systemic Exposure of Verapamil in Rabbits. *Drug Metabolism Letters*. 4:173-179, 2010.
 39. Yazun B. Jarrar, Said Ismail, and **Yacoub M. Irshaid**. N-Acetyltransferase-2 (NAT2) Genotype Frequency Among Jordanian Volunteers. *International Journal of Clinical Pharmacology and Therapeutics*, 48 (10):688-694,2010.
 40. Eman F. Badran, Abdulqader Shamayleh, and **Yacoub M. Irshaid**. Pharmacokinetics of Vancomycin in Neonates Admitted to the Neonatology Unit at Jordan University Hospital. *International Journal of Clinical Pharmacology and Therapeutics*, 49(4):252-257, 2011.
 41. Suad M Aqel, **Yacoub M Irshaid**, Munir N Gharaibeh, and Tawfiq A Arafat. The Effect of Ethyl Acetate Extract of Pomelo Mix on Systemic Exposure of Verapamil in Rabbits. *Drug Metabolism Letters*, 5(2):92-98, 2011.

42. Abdulrahman. M. Ghazi, Abdulazim. S. Salhab, Tawfiq. A. Arafat, and Yacoub. M. Irshaid. Effect of Mint-drink on Metabolism of Nicotine as Measured by Nicotine to Cotinine Ratio in Urine of Jordanian Smoking Volunteers. *Nicotine and Tobacco Research*. Published online March 31,2011 (doi: 10.1093/ntr/ntr054).
43. Nada A. Yasein, Farihan Barghouti, Fatin T. Al Faris, Lana N. Hatamleh, Mohammed S. Farah, Yacoub M. Irshaid. Prescription pattern of nonsteroidal anti-inflammatory drugs in a Family Practice Clinic at Jordan University Hospital. *Jordan Medical Journal*, 45(1):9-17,2011.
44. Nada A. Yasein, Farihan Barghouti, Yacoub M. Irshaid , Ahmad A. Suleiman, Diana Abu-Hassan, Rana Tawil. Elderly patients in Family Practice: Polypharmacy and Inappropriate Prescribing: Jordan. *International Medical Journal*, Accepted, 2011.
45. Muna K. Oqal, Khader N. Mustafa, and Yacoub M. Irshaid. N-Acetyltransferase-2 Genotypes Among Patients With Rheumatoid Arthritis Attending Jordan University Hospital. *Genetic Testing and Molecular Biomarkers*, Accepted 2012.
46. Nada A. Yasein, Farihan F. Barghouti, Yacoub M. Irshaid , Ahmad A. Suleiman. Discrepancies Between Elderly Patient's Self-Reported and Prescribed Medications: A Social Investigation. *Scandinavian Journal of Caring Sciences*, Accepted 2012.
47. Nada A. Yasein, Yacoub M. Irshaid, Farihan F. Barghouti, Wejdan A. Shroukh, Lana J. Halaseh. Use of antihypertensive medications among elderly patients with metabolic syndrome attending family practice clinic. *International Medical Journal*, Accepted, 2012.

B. PUBLISHED ABSTRACTS:

1. M.D.Green, Y. Irshaid and T.R. Tephly.
Glucuronidation Of α -naphthylamine by rat liver 17 β -hydroxysteroid UDP-glucuronyltransferase.
Third International Symposium on Biological Reactive Intermediates (BRI III) p55,1985.
2. Y.Irshaid and T.R.Tephly.

Isolation of p-nitrophenol UDP-glucuronyltransferase from human liver microsomes.

The Pharmacologist 27:147,1985.

3. Y.Irshaid, D.D. Nghiem, and T.R. Tephly.
Purification of a human UDP-glucuronosyltransferase.
Federation Proceeding 45:933,1986.
4. A. Radomska-Pyrek, P. Zimniak, Y.M. Irshaid, T.R. Tephly and R. Lester.
Specificity and purification of human hepatic UDP- glucuronyltransferase acting on monohydroxylated short-chain bile acids.
Hepatology 6(15):1171,1986.
5. A. Radomska-Pyrek, P. Zimniak, Y.M. Irshaid, R. Lester and T.R. Tephly.
Glucuronidation of the 6 α -hydroxylated bile acids, hyocholic and hyodeoxycholic acids, by human liver microsomes.
Hepatology 6(15):1171,1986.
6. Y. Irshaid, T. Hartsell, A. Adedoyin and R. A. Branch.
Monoacetyldapsone inhibition of dapsone N-hydroxylation.
The Pharmacologist 35(3):205,1993.
7. Y. Irshaid, A. Adedoyin and R. A. Branch. Metabolic interactions between Cytochrome P4503A substrates.
Clinical Pharmacology and Therapeutics 55(2):139,1994.
8. Y. M. Irshaid, M. Al-Homrany, Assem K El Sherif and Haider Omar. Pharmacokinetics of gentamicin in patients with end-stage renal disease undergoing conventional intermittent hemodialysis: A comparative study between diabetic and nondiabetic patients. *Ther Drug Monit* 29(4):533,2007.
9. Jaber M. Jaber, MS Shomaf, Abdulazim S. Salhab, and Yacoub M. Irshaid. The effects of meloxicam on the fertility of male rats. *J Clin Pharmacol*;48:1104,2008.
10. Abdulrahman Ghazi, Abdulazim Salhab, Yacoub Irshaid. Effect of mint drink on metabolism of nicotine as judged by nicotine to cotinine ratio in urine of smoking Jordanian volunteers. *Ther Drug Monit* 31(5):623,2009.
11. Yacoub Irshaid, Iman Badran, Abdulqader Shamayleh. Pharmacokinetics of vancomycin in neonates admitted to the Neonatology Unit at Jordan university Hospital. *Ther Drug Monit* 31(5):652,2009.
12. Irshaid YM, Oukal MK, Mustafa KN. N-Acetyltransferase-2 genotypes among Jordanian

patients with rheumatoid arthritis attending Jordan University Hospital Rheumatology Clinic. *Ther Drug Monit* 33(4):505,2011.

13. Irshaid YM, Elawy AM, Ismail SI. Thiopurine S-methyltransferase (TPMT) gene polymorphism in healthy Jordanian volunteers. *Ther Drug Monit* 33(4):506,2011.

C. MASTER THESIS SUPERVISION:

1. The effects of meloxicam on the fertility of male rats. Co-advisor with Prof. Abdulazim Salhab, (Student: Jaber Mohammad Yousef Jaber), defended and passed April 2009.
2. The effect of ethyl acetate extract of Pomelo mix on plasma concentration of verapamil in Rabbits. (Student: Suad Mahmoud Aqel), defended and passed May 2009.
3. N-Acetyltransferase 2 (NAT2) genotype frequency among unrelated Jordanian volunteers. (Student: Yazun Bashir Jarrar), defended and passed July 2009.
4. The effect of licorice drink on plasma concentration of the antihypertensive agent, verapamil, in rabbits. (Student Ibraheem Deeb TawfeeqAl-Deeb), defended and passed July 2009.
5. Effect of mint drink on metabolism of nicotine as measured by nicotine to cotinine ratio in urine of Jordanian smoking volunteers. (Student Abdulrahman Mahmoud Abdulqader Ghazi), defended and passed November, 2009.
6. Thiopurine S-methyltransferase (TPMT) gene Polymorphisms in healthy Jordanian volunteers. (Student Asma Mohammad Elawy), defended and passed April 2010.
7. N-Acetyltransferase 2 (NAT2) Genotype Frequency Among Patients with Rheumatoid Arthritis Attending Jordan University Hospital Rheumatology Clinic. (Student: Muna Kamal Abdul-Latif Oqal), defended and passed May 2010.
8. A Study on utilization of antihypertensive drugs in a family practice clinic at Jordan University Hospital. (Student: Essam Ayed Hamed Al-Ddrabah), defended and passed June 2010.
9. The potential protective effect of pomegranate (*Punica granatum*) juice and peel extract on hepatic toxicity induced by acetaminophen in mice. (Student: Lubna Abdul Razzaq Al-Sharif), defended and passed August 2010.
10. The association between angiotensin II type 1 receptor gene (AT1R) A¹¹⁶⁶C variants and essential hypertension in a sample of the Jordanian population. (Student: Dima

Shahin Ali Shahin), defended and passed January, 2012.

D. MASTER THESIS EXAMINATION COMMITTEES (OTHER THAN THE ABOVE):

- 1. Chemoprevention of meloxicam, grapefruit juice and the combination of both against the formation of colonic aberrant crypt foci induced by 1,2-dimethylhydrazine in rat model. (Student: Naim Jawad Kittana). Defended and passed May, 2008.**
- 2. Study of the effect of Type 2 diabetes on immortalization of B lymphocytes. (Student: Manar Saleh Zraikat), Defended and passed August, 2008.**
- 3. The molecular characterization of extended-spectrum beta lactamase-producing Escherichia coli and Klebsiella species isolates at Jordan University Hospital and King Hussein Cancer Center (Student: Hala Burhan Al-Qasem), Defended and passed April 2010.**
- 4.**

E. SUBMITTED BIOEQUIVALENCE REPORTS FOR PHARMACEUTICAL INDUSTRY:

- 1. A two-way crossover bioequivalency study comparing single doses of cefuroxime intramuscular injections: Cefuroxime 750 mg, BN 282 (Hikma Pharmaceuticals, Amman, Jordan) to Zinacef 750 mg, BN B6733GA (Glaxo, UK).
Prepared by Naji M. Najib, Yacoub M. Irshaid and Nayel Rawashdeh. Faculty of Pharmacy and Faculty of Medicine, JUST, Irbid, Jordan.
Prepared for Hikma Pharmaceuticals, Amman, Jordan.**
- 2. A two-way crossover bioequivalency study comparing single doses of nifedipine oral administration: Myogard 10 mg capsules BN 40950 (The United Pharmaceutical Manufacturing Company, Jordan) to Adalat 10 mg capsules BN TR931 (Bayer AG, Germany).
Prepared by Nayel M. Rawashdeh, Yacoub M. Irshaid and Mazen K. Qato. Faculty of Medicine, JUST, Irbid, Jordan and Faculty of Pharmacy, Al-Isra' University, Amman, Jordan.
Prepared for The United Pharmaceutical Manufacturing Company, Amman, Jordan.**

- 3. A two-way crossover bioequivalency study comparing single doses of nifedipine: Myogard 20 Retard 20mg tablets BN 40920 (The United Pharmaceutical Manufacturing Company, Jordan) to Adalat Retard 20 mg tablets BN UP071 (Bayer AG, Germany).
Prepared by Yacoub M. Irshaid, Nayel M. Rawashdeh and Mazen K. Qato. Faculty of Medicine, JUST, Irbid, Jordan and Faculty of Pharmacy, Al-Isra' University, Amman, Jordan.
Prepared for The United Pharmaceutical Manufacturing Company, Amman, Jordan.**
- 4. A two-way crossover bioequivalency study comparing single doses of atenolol: Tenolol 100 mg tablets BN 40534 (The United Pharmaceutical Manufacturing Company, Jordan) to Tenormin 100 mg tablets BN 300A (ICI Pharmaceuticals).
Prepared by Mazen K. Qatu, Yacoub M. Irshaid and Nayel M. Rawashdeh. Faculty of Medicine, JUST, Irbid, Jordan and Faculty of Pharmacy, Al-Isra' University, Amman, Jordan..
Prepared for The United Pharmaceutical Manufacturing Company, Amman, Jordan.**

PROFESSIONAL ACTIVITIES

TEACHING:

Participated actively in the following courses since 1986.

1. ***Medical Pharmacology.*** Drug metabolism, Pharmacokinetics, Receptors and post receptor phenomena, Pharmacogenetics, Dose-response relationships, Autonomic nervous system pharmacology, CVS pharmacology & Toxicology of pesticides, heavy metals, asphyxiants, oxygen, corrosives, mushrooms, petroleum distillates and snake bites.
2. ***Pharmacology for Pharmacy Students.*** Autonomic nervous system pharmacology, Respiratory pharmacology, GIT pharmacology, & Drugs used in disorders of coagulation.
3. ***Pharmacology for Dentistry Students .*** ANS pharmacology & Endocrine drugs.
4. ***Dental Therapeutics .*** Nonsteroidal antiinflammatory drugs & Antimicrobial Agents.
5. ***Pharmacology for Nursing Students 255.*** ANS pharmacology.
6. ***Toxicology for Nursing Students.*** Principles of management of the poisoned patient, Pesticides, Household products, Corrosives, Heavy metals, Alcohols, Poisonous mushrooms, Snake bites, Scorpion stings, Asphyxiants and respiratory irritants, Teratogens, Oxygen toxicity and toxicity of chemical warfare.
7. **Clinical Pharmacology Seminars and Clinical Toxicology Lectures for 4th and 6th year Medical students.**
8. **Medical Pharmacology: 8 Credits / Whole course/ Faculty of Medicine/ Al Quds University.**
9. **Clinical Pharmacology: 2 Credits / Whole course/ Faculty of Medicine/ Al Quds University.**
10. **Pharmacokinetics: 3 Credits / Whole course/ Faculty of Pharmacy/ Al Najah University/ Nablus.**
11. **Pharmacology: 6 Credits / Whole Course / Faculty of Pharmacy / Al Najah**

University/ Nablus.

12. **Basic and Clinical Pharmacology, College of Medicine & Medical Sciences, King Khalid University, Abha, Saudi Arabia**
13. **Clinical Pharmacology (as part of Internal Medicine), College of Medicine & Medical Sciences, King Khalid University, Abha, Saudi Arabia**
14. **Toxicology (as part of Forensic Medicine), College of Medicine & Medical Sciences, King Khalid University, Abha, Saudi Arabia.**
15. **Pharmacology 1, College of Pharmacy, King Khalid University, Abha, Saudi Arabia.**
16. **Medical Terminology, College of Pharmacy, King Khalid University, Abha, Saudi Arabia.**
17. **Pharmacokinetics, Postgraduate program in pharmacology, Department of Pharmacology, Faculty of Medicine, University of Jordan, Amman, Jordan.**
18. **Medical Pharmacology for medical and dentistry students, Department of Pharmacology, Faculty of Medicine, University of Jordan, Amman, Jordan.**
19. **Pharmacoepidemiology, Postgraduate program in pharmacology, Department of Pharmacology, Faculty of Medicine, University of Jordan, Amman, Jordan.**
20. **Organ-system courses (pharmacology part), 2nd & 3rd Medical students, Department of Pharmacology, Faculty of Medicine, University of Jordan, Amman, Jordan.**

SERVICE:

1. **Therapeutic drug Monitoring and Pharmacology & Toxicology Consultations, College of Medicine & Medical Sciences, King Khalid University, and Asir Central Hospital, Ministry of Health, Abha Saudi Arabia. August 28, 1999 to August 21, 2005.**
2. **Director and Founder of "Clinical Pharmacology Unit" (Drug and Poison Information and Therapeutic Drug Monitoring Unit), Princess Basma Teaching Hospital, Ministry of Health and Jordan University of Science & Technology, Irbid, Jordan. April 1, 1995 To August 31, 1996.**

RESEARCH INTEREST

- 1. Characterization and Regulation of Human Liver UDP-glucuronyltransferases.**
- 1. Pharmacogenetics: Acetylation & Oxidation Polymorphism in Jordan.**
- 2. Bioavailability and Bioequivalence studies.**
- 3. Patterns of Prescription Writing (in a teaching hospital).**
- 4. Therapeutic Drug Monitoring of antiepileptic drugs, Aminoglycosides & Vancomycin.**
- 5. Pharmacokinetics of Aminoglycosides in Hemodialysis Patients.**
- 6. Pharmacokinetics of Aminoglycosides & Vancomycin in Neonates.**
- 7. Effect of licorice and pomelo on CYP3A4 activity**
- 8. Genotypes of NAT2 and TPMT.**

NATIONAL COMMITTEES

- 1. Medicinal Plants and Natural Products Committee, Jordan Food and Drug Administration (JFDA), Amman, Jordan, August 1, 2007 to May 31, 2008**
- 2. Clinical Studies Committee, Jordan Food and Drug Administration (JFDA), Amman, Jordan, June 1, 2008 to present.**
- 3. Committee for registration of new drugs, Jordan Food and Drug Administration (JFDA), Amman, Jordan, March 2011 to present.**

GRANTS

- 1. A grant for the characterization of human liver UDP-glucuronosyltransferases from Jordan University Of Science & Technology, Deanship Of Research, 1987.**
- 2. Two grants for the study of Acetylation and Oxidation Polymorphism in Jordan from Jordan University Of Science & Technology, Deanship Of Research, 1988 & 1989.**

Additional support, 1994.

- 3. A grant for the study of the effect of orally administered cholestyramine/colestipol on the systemic clearance of drugs administered intravenously into the rabbit, From Jordan University of Science and Technology, Deanship of Research, 1990.**
- 4. A grant to compare the bioavailability of two cefuroxime preparations following i. m. injection, From Al-Hikma Pharmaceuticals, Amman, Jordan, 1994.**
- 5. A grant to compare the bioavailability of two nifedipine tablets and two capsules following oral administration, From The United Pharmaceutical Manufacturing Company, Amman, Jordan, 1995.**
- 6. A grant to compare the bioavailability of two Atenolol tablets following oral administration, From The United Pharmaceutical Manufacturing Company, Amman, Jordan, 1995.**
- 9. A grant to study pharmacokinetic and dosage regimen design of gentamicin in patients with ESRD undergoing conventional intermittent hemodialysis, a comparative study between diabetics and nondiabetics. From King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia, 2004.**
- 10. A grant to study pharmacokinetics of aminoglycosides & vancomycin from “Deanship of Research”, University of Jordan, Amman, Jordan, 2006.**
- 11. A grant to study the Effect of licorice and pomelo on CYP3A4 activity from “Deanship of Research”, University of Jordan, Amman, Jordan, 2006.**

PROFESSIONAL AND SCIENTIFIC MEETINGS

- 1. 1985 ASPET (American Society Of Pharmacology And Experimental Therapeutics) Meeting. Boston, Massachusetts, USA.
Isolation Of p-Nitrophenol UDP-Glucuronyltransferase from Human Liver Microsomes.**
- 2. 1986 FASEB (Federation Of The American Societies Of Experimental Biology) Meeting. St.Louis, MO, USA.
Purification of a Human Liver UDP-glucuronosyltransferases.**
- 3. The Fifth Jordanian Medical Conference,1987. Amman, Jordan.
Bile Acid Conjugation With Glucuronic Acid By Human Liver And Purified Human Liver UDP-Glucuronyltransferases.**
- 4. The First Scientific Day Of The Faculty Of Medicine, Jordan University of Science and Technology, Irbid, Jordan (May, 1987).
Glucuronidation Of Some Steroid Hormones And Xenobiotics By Human Liver And Purified Human Liver UDP-Glucuronyltransferases.**
- 12. Invited Speaker: Princes Basma Hospital, Irbid, Jordan. Resident seminars, Theophylline Toxicity, April, 1987.**
- 6. Invited Speaker: Faculty of Pharmacy Continued Education Seminars. Classification of Antimicrobial Agents. December,1987.**
- 7. The Fifth Annual Scientific Day Of The Faculty Of Medicine and The Faculty Of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan (April, 1991).
N-Acetylation Phenotyping Using Dapsone In A Jordanian Population.**
- 8. Invited Speaker: Department of Pediatrics Seminars, JUST, Faculty of Medicine. Prostaglandins & Leukotrienes, November, 1991.**
- 9. The Sixth Annual Scientific Day Of The Faculty Of Medicine, Jordan University Of Science and Technology, Irbid, Jordan (April, 1992).
Dextromethorphan O-demethylation polymorphism in Jordanians.**
- 10. 1993 ASPET (American Society of Pharmacology and Experimental Therapeutics) Meeting. San Francisco, California.
Monoacetyldapsone Inhibition of Dapsone N-Hydroxylation.**

11. **1995 ASCPT (American Society for Clinical Pharmacology and Therapeutics) Meeting. San Diego, California. 4th Annual Clinical Pharmacology Review Course.**
12. **The "First Scientific Day", Faculty of Medicine, Al Quds University, Abu Dies, Jerusalem, May 17, 1997.
Dextromethorphan metabolism in Jordanians: Dissociation of dextromethorphan O-demethylation from debrisoquine 4-hydroxylation.**
13. **Palestinian Pharmaceutical Conference III. Ramallah, 5-7/8/1998.
Drugs in Pregnancy & Lactation.**
14. **Manifestations of Substance Abuse and Addiction, Prince Faisal bin Fahad Training Program
for School Teachers and Advisers, Abha, Saudi Arabia. October 30, 1999.**
15. **The Sixth Drug Symposium, Asir central Hospital and College of Medicine & Health Sciences, King Khalid University. Clinical Pharmacokinetics.
February 2, 2000.**
16. **Symposium on "Therapeutic Drug Monitoring", Department of Clinical Pharmacology College of Medicine & Health Sciences, King Khalid University and Asir Central Hospital. Principles of therapeutic Drug Monitoring. May 11, 2000.**
17. **Health Consequences of Substance Abuse and Addiction, Prince Faisal bin Fahad Training Program for School Teachers and Advisers, Abha, Saudi Arabia. February 4, 2001.**
18. **Hepatic and Ocular Toxicity of Antitubercular Drugs. World TB Day, Asir Hospital TB Unit, Abha, Saudi Arabia, March 29, 2001.**
19. **Drugs and pregnancy, toxicity and safety. Course on "Medical Problems During Pregnancy". Postgraduate and CME Center, College of Medicine and Asir Hospital, Abha, Saudi Arabia, April 24, 2003.**
20. **Appropriateness of requests for therapeutic drug monitoring of antiepileptic drugs. 9th Annual Research Day, Department of Internal Medicine, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia, May 7, 2003.**
21. **Polymorphism in drug metabolism: Clinical significance. Invited speaker, 6th Saudi Pharmaceutical International Conference, Riyadh, Saudi Arabia, October 7, 2003.**

22. **Good Prescribing. “10th Drug Symposium”. Postgraduate and CME Center, College of Medicine, King Khalid University, Abha, Saudi Arabia, April 29, 2004.**
23. **A Pharmacoepidemiological study of prescription pattern in outpatient clinics of Aseer Central Hospital. First Annual Scientific Research Day, College of Medicine, King Khalid University, Abha, Saudi Arabia, May 20, 2004.**
24. **Y. M. Irshaid, M. Al-Homrany, Assem K El Sherif and Haider Omar. Pharmacokinetics of gentamicin in patients with end-stage renal disease undergoing conventional intermittent hemodialysis: A comparative study between diabetic and nondiabetic patients. 10th International Congress of Therapeutic Drug Monitoring and Clinical toxicology, Nice, France, Sep 9-14,2007.**
25. **Abdulrahman Ghazi, Abdulazim Salhab, Yacoub Irshaid. Effect of mint drink on metabolism of nicotine as judged by nicotine to cotinine ratio in urine of smoking Jordanian volunteers. 11th International Congress of Therapeutic Drug Monitoring and Clinical toxicology, Montreal, Canada, Oct 3-8,2009.**
26. **Yacoub Irshaid, Iman Badran, Abdulqader Shamayleh. Pharmacokinetics of vancomycin in neonates admitted to the Neonatology Unit at Jordan university Hospital. 11th International Congress of Therapeutic Drug Monitoring and Clinical toxicology, Montreal, Canada, Oct 3-8,2009.**
27. **Irshaid YM, Oukal MK, Mustafa KN. N-Acetyltransferase-2 genotypes among Jordanian patients with rheumatoid arthritis attending Jordan University Hospital Rheumatology Clinic. 12th International Congress of Therapeutic Drug Monitoring and Clinical toxicology, Stuttgart, Germany, Oct 2-6,2011.**
28. **Irshaid YM, Elawy AM, Ismail SI. Thiopurine S-methyltransferase (TPMT) gene polymorphism in healthy Jordanian volunteers. . 12th International Congress of Therapeutic Drug Monitoring and Clinical toxicology, Stuttgart, Germany, Oct 2-6,2011.**
- 29.

WORKSHOPS

1. **Health Professionals' Education Workshop On "Assessment and Evaluation", 29 August – 3 September 1987, JUST, Faculty Of Medicine, Irbid, Jordan.**
2. **University Education Workshop On "Education and Assessment Technology", 24-28 August, 1991, JUST, Faculty of Medicine, Irbid, Jordan.**
3. **Workshop on Student Assessment. College of Medicine, King Khalid University, Abha, Saudi Arabia. October 31, 1999.**
4. **Workshop on Research Methods in Medical Education, College of Medicine, King Khalid University, Abha, Saudi Arabia. December 5, 1999.**
5. **Computer and Internet Applications in the Medical Field, College of Medicine, King Khalid University, Abha, Saudi Arabia. December 11-15, 1999.**
6. **Statistical Interpretation of Research Data. College of Medicine Research Center, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. April 25-26,2001.**
7. **Clinical Utilization of the Skill Lab. College of Medicine Research Center, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. 28 & 30 January, 2002.**
8. **SPSS Hands on Workshop and Statistical Interpretation of Data in Clinical Research. College of Medicine Research Center, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. 6 June, 2002.**
9. **Workshop on: Educational Planning and Evaluation. Organized by "Saudi Council for Health Specialties" in Collaboration with "Department of Medical Education, College of Physicians & Surgeons of Pakistan". Aseer Central Hospital, Abha, Saudi Arabia. October 26-28, 2002.**

10. **Workshop on: Teaching Skills. Organized by “Saudi Council for Health Specialties” in Collaboration with “Department of Medical Education, College of Physicians & Surgeons of Pakistan”. College of Medicine & Medical Sciences, King Khalid University, Abha, Saudi Arabia. October 29-31, 2002.**
11. **Workshop on MS PowerPoint. College of Medicine & Medical Sciences, Computer Laboratory, King Khalid University, Abha, Saudi Arabia. January 23, 2003.**
12. **Workshop on Extended Matching Multiple Choice Questions, Educational Development Center, College of Medicine & Medical Sciences, King Khalid University, Abha, Saudi Arabia. April 28, 2003.**
13. **Workshop on Leadership Development Program for Health Professionals, Center for Educational Development, University of Jordan, Amman, Jordan, (May, June), 2006**
14. **“Internal QMS Auditor Training Course”, by “LRQA”, 18-19 April, 2007.**
15. **The first JAPM Bioequivalence Conference, 14-15 July, 2008, Amman, Jordan.**
16. **“Facilitating Clinical Trials in MENA Region” Conference, 23-24 October, Amman, Jordan.**
17. **“Polymerase Chain Reaction (PCR)”, Center of Consultation, University of Jordan, February 1st-12th, 2009, Amman, Jordan.**
18. **“Independent Ethics Committees Training”, ClinArt International, Dubai-UAE, March 6-7, 2009.**
19. **“The Second Conference For Faculty of Medicine at the University of Jordan, and the 5th Conference for Jordanian Medical Faculties”, Amman, Jordan 18-20/April/2009. Medical Education in the Third Millennium, Amman, Jordan.**
20. **“Expert Training on the Process of Accreditation of Medical Schools”, Higher Education Accreditation Commission, 1, February, 2010.**
21. **Workshop on “Clinical Investigation Training Program (CITP I)”, May 8-9, 2010, Amman, Jordan. Trainer on behalf of Jordan FDA.**

22. **Institutional Review Board (IRB) Manual Training, July 31,2010, Amman, Jordan, sponsored by JAPM.**
23. **Good Clinical Practice Workshop, September 20-21,2010, Amman, Jordan, sponsored by JAPM.**
24. **Workshop on “Clinical Investigation Training Program (CITP III)”, April 30, 2011, Amman, Jordan. Trainer on behalf of Jordan FDA.**
25. **Workshop on “Problem-Based Learning”, April 24, 25, 2011, Faculty of Medicine, University of Jordan, Amman, Jordan, sponsored by “WHO”.**
26. **Workshop on “Clinical Investigation Training Program (CITP V)”, December 17, 2011, Amman, Jordan. Trainer on behalf of Jordan FDA.**
27. **Workshop on “Clinical Investigation Training Program (CITP VI)”, May 26, 2012, Amman, Jordan. Trainer on behalf of Jordan FDA.**
- 28.

COMMITTEES

1. **Research & Continued Medical Education Committee (Faculty Of Medicine /JUST):**
1986/1988; 1995/1996
2. **Library Committee (Faculty Of Medicine /JUST):**
1986/1988.
3. **Tender Committee (Faculty Of Medicine /JUST):**
1986/1987.
1988/1992.
4. **Curriculum and Examination Committee (Faculty Of Medicine /JUST):**
1991/1992.
1993/1996.
5. **Pharmacy and Therapeutics Committee (Faculty Of Medicine /JUST):**
1993/1996.
6. **Seminars and Conferences Committee (Faculty Of Medicine /JUST):**
1994/1995.
7. **Research Council (Deanary of Research/JUST):**
1995/1996
8. **Scientific Days Committee (Faculty of Medicine/Al-Quds University):**
1996/1999
9. **Library Convenor (Faculty of Medicine/Al-Quds University):**
1996/1998
10. **Academic Council/Al-Quds University:**
1996/1998
11. **Promotion Committee/Al-Quds University:**
1996/1999
12. **Curriculum and Examination Committee (Faculty Of Medicine / Al-Quds University):**
1996/1999
13. **Committee of Health Sciences Academic and Research Programs/ Al-Quds University:**
1997/1999
14. **Committee of Editors of Al-Quds University Research Journal:**
1997/1999
15. **Curriculum Committee, College of Medicine & Health Sciences, King Khalid University, Abha, Saudi Arabia.**
1999/2005
16. **College of Medicine Research Center (CMRC) Council, King Khalid University, Abha, Saudi Arabia.**
2000/2002
17. **Research Committee, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia.**

- 2000/2002**
- 18. Student Advisory Committee, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia.**
- 2001/2005**
- 19. Research Sub-committee (College of Medicine and King Faisal Speciality Hospital), College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. 2000/2002 Committee for Formulating Guidelines for "Ethics in Medical Research", College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. (Ad hoc), 2001-2002**
 - 29. Committee for Preparing Curriculum for College of Pharmacy, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. (Ad hoc), 2001-2002**
 - 21. Committee for Foundation and Establishment for College of Pharmacy, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. (Ad hoc), 2002-2003**
 - 22. Committee for Foundation of Central Laboratory, College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. (Ad hoc), 2002-2003**
 - 23. Committee for Establishing a Molecular Medicine Course for Medical students. College of Medicine and Medical Sciences, King Khalid University, Abha, Saudi Arabia. (Ad hoc), 2005**
 - 24. Committee of Postgraduate Studies, Faculty of Medicine, University of Jordan, Amman, Jordan. 2005/2012.**
 - 25. Committee of Postgraduate Studies, Department of Pharmacology, Faculty of Medicine, University of Jordan, Amman, Jordan. 2005/2012.**
 - 26. Curriculum and Examinations committee, Faculty of Medicine, University of Jordan, Amman, Jordan. 2006/2007, 2010/2011**
 - 27. Committee of "Teaching Units" Organizers, Faculty of Medicine, University of Jordan, Amman, Jordan. 2006/2012.**
 - 28. Research Committee, Faculty of Medicine, University of Jordan, Amman, Jordan. 2007/2012.**
 - 29. Jordan University Research Council, 2011/2012.**

