

Volume 4, March Issue



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DPC NEWSLETTER

DUPHAT 2014!!!

Community Engagement Unit:

- Eye Health Advisor Program Report
- DPC's Green Group

Research publication:

A new natural gel of *Fagonia indica* Burm f. extract for the treatment of burn on rats

- Dr. Bazigha Kadhim, Dr. Naglaa Gamil, Dr. Saeed Ahmed Khan and Dr. Fatehia Aly Bayoumi



Any suggestion or comment? Post it to <DPCnewsletter@dpc.edu>

DUBAI PHARMACY COLLEGE DOES IT AGAIN AT DUPHAT 2014!



Dr. Khan (center) receiving the trophy from Dr. Ali Al Sayed Hussain (left) (Director of Pharmacy, DHA) and Prof. Albert I Wertheimer (right) (Director, Centre for Pharmaceutical Health Services Research & Prof. Temple University, College of Pharmacy, Philadelphia, USA)



Dr. Ali Al Sayed, Director of Pharmaceutical Services, Dubai Health Authority (DHA) and Chairman of DUPHAT appreciated the 10 **volunteers from Dubai Pharmacy College**.

- **Student Volunteers:** Ayesha Hassan, Arooj Qaiser, Majda, Sara Salwan, Sara Abdelaal, Amani, Nassim, Shaza, Sara Nizar, Randa Hassan.



WINNERS OF DUPHAT 2014



Position	Student name	Supervisor	Topic
1st oral presentation	Salam Mohamed	Dr. Naglaa	Constituents , antibacterial and antihyperlipidemia of the alcoholic extract prepared from a plant belongs to family Rosaceae
	Basem Alestwani	Gamil and Dr. Eman Abu-Gharbieh	
	Hebatullah Basmaji		
	Sara Safa Tattan		
	Manal KH M A M Bouduraid		



Position	Student name	Supervisor	Topic
2nd best quality student poster	Hamda Lootah	Dr. Bazigha Abdul Rasool	Investigation of Sorbitan Niosomal Gel for Sustained Release Ocular Delivery of Piroxicam
	Hiba Abu Al Haj		
	Iman AbuSharbain		



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Position	Student name	Supervisor	Topic
5th best quality student poster	Shaimaa Mohamed	Dr. Ghazala Khan	Methylene Tetrahydrofolate Reductase (Mthfr C677t) Gene Polymorphism Effect on Development of Diabetic Nephropathy in Arab Patients with Type 2 Diabetes Mellitus
	Mazen Dalao		
	Aman Hassan		
	AlHamed		
	Abir Majed		
	Mohamdiyeh		



Position	Student name	Supervisor	Topic
8th best thematic poster	Nasreh Iraj Shamsi	Dr. Eman Abu-Gharbieh and	Treatment Related Problems Identified For Outpatients With Chronic Diseases In United Arab Emirates.
	Poor Gheshmi		
	Rawan Faisal Abdel Gadir Abdel Rahim	Dr. Iman Basheti	
	Shahla Rabea Bashir Abdel Wahab		





Position	Student names	Supervisor	Content
15th best quality student poster	Rahaf Samir Kousa Khalil Ruba Adnan Al-Hamdani Mai Mohamed Ibrahim El Saka Fatma Adel Zaky Abdelaal	Prof. Khan and Dr. Salma	Effect of Fenugreek on Diabetic Nephropathy in Streptozotocin-induced Diabetic Rats



Position	Student names	Supervisor	Content
2nd best Thematic poster	Heba Bassam	Dr. Bazigha K. Abdul Rasool	Determining the role of Pharmacists in promoting athletes awareness of body building supplements



CONGRATULATIONS TO THE WINNERS!!!



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CONGRATULATIONS TO THE WINNERS!!!

PARTICIPATING POSTERS IN DUPHAT 2014

Title	Authors	Supervisors
Constituents, Antimicrobial and Burn Healing activities of the extract of plant prepared from Family <i>Lamiaceae</i>	Rawan Al Sarraj, Shaza Nidal Dalati, Noor Al Rawi	Dr. Eman Abu-Gharbieh Dr. Naglaa
Xanthine Oxidase Inhibitory Activity of the Ethanolic Extracts of Selected Emirati Medicinal Plants	Suad Mahmood, Fatima Numan, Soodabeh Beiram	Dr. Eman Abu-Gharbieh ¹ and Dr. Naglaa Gamil ²
Invaluable gifts of Nature-Development of Multipurpose Cosmetic Cream Contains Extracts of Aloe Vera, Cucumber & Avocado	Sheikha Yousuf, Yasmin Yousef, Hanin Mahmoud Youssef.	Prof. Heyam ¹ , Dr. Naglaa Gamil ² and Prof. Saeed Ahmed Khan ²
Stability of Frusemide in Three Different Vehicles	Hend Mohamed, Areej Salim, Amira AbdelWahab	Prof. Heyam ¹ and Prof. Saeed Ahmed Khan ²
Hypoglycemic effect of <i>Aloe vera</i> and <i>Fagonia indica</i> in mice.	Hebatullah Faris, Nasra Hamad, Noor Zeyad	Dr. Amina Mahdy ¹ and Dr. Naglaa Gamil ²
Effect of Fenugreek on Diabetic Nephropathy in Streptozotocin-induced Diabetic Rats	Mai M., Rahaf S., Ruba A., Fatima A. Zaki	¹ Prof. Khan SA and ² Dr. Salma Naqvi
Effects of Fenugreek on Hypoglycemic and Antioxidative Stress in Streptozotocin- Induced Diabetic Rats	Doaa A. Fathy, Nasma S. Hendawy, Hagar Nasr	¹ Prof. Khan SA and ² Dr. Salma Naqvi
Investigation of Sorbitan Niosomal Gel for Sustained Release Ocular Delivery of Piroxicam	Hamda A., Iman M. Abusharbain, Hiba A.	Dr. Bazigha K. Abdul Rasool
Solid Dispersions OF Poloxamer 188 For The Local Delivery Of Miconazole: Characterization and In Vitro Activity	Tasneem M., Suzan M., Khalsa M.	Dr. Bazigha K. Abdul Rasool
Determining the Role OF Pharmacists In Promoting Athletes Awareness Of Body Building Supplements	Heba Bassam Hamza	Dr. Bazigha K. Abdul Rasool



Determination of Heavy Metals in Pharmaceutical Products available in UAE by using Atomic Absorption Spectrometry	Kholoud Y.I, Kamar Mohamed, Yomna Abdul Baset	Prof. Dr. Saeed A. Khan and Assoc. Prof. Dr. Fazilatun Nessa
Comparative Antioxidant Activity of some Medicinal Herbs used in Ayurvedic Medicine	Arwa Nousheen, Naeema Asghar, Mashael Y. Y.	Prof. Dr. Saeed A. Khan and Assoc. Prof. Dr. Fazilatun Nessa
Prevalence and prediction of undiagnosed diabetes among women in uae	Ashwaq A., Shahd Haqqi, Zainab Ali	Dr. Mirza R. Baig
Methylene tetrahydrofolate Reductase (Mthfr c677t) Gene Polymorphism Effect on Development of Diabetic Nephropathy in Arab Patients with Type 2 Diabetes Mellitus	Shaimaa Mohammed, Aman Al Hamid , Abeer Majid	Dr Gazala Afreen Khan
Preparation & Evaluation of Diclofenac Microcapsules for sustained drug delivery	Huda A. Ghani Mohamed, Zahra Mohamed	Dr. Aliasgar Shahiwala
Surface area based approach to achieve desired dissolution profile of pharmaceutical formulation	Manal M., Tasneem Riad, Sahar Abdullah	Dr. Aliasgar Shahiwala
Treatment Related Problems Identified For Outpatients With Chronic Diseases In United Arab Emirates	Nasreh Iraj and Shahla Rabea and Rawan Faisal	Dr Eman Abu-Gharbieh ¹ and Dr. Iman Bashedi ²
Constituents and Antihyperlipidemic activity of the extract prepared from Family Rosaceae	Sara Safa, Heba Basmaji, Manal KH, Salam M.	Dr. Naglaa Shehab ¹ and Dr. Eman Abu-Gharbieh
Social Media and its impact on the Medicine and Pharmacy Professions.	Randa , Suha, Eman Jameel	Dr. Sahar Hussain
Association of Type2 Diabetes Mellitus with GSTM1 GSTT1, GSP1 genetic polymorphism and blood lipids in Arab Population	Basma husham Merie, Fawziah M A Al Marzoq, Leyle Abdollah Monfared	Dr Gazala Afreen Khan



Eye Health Advisor program Report

The community engagement unit under the supervision of Dr. Gazala Khan, Head, Community Engagement Unit and Mrs. Suad Ahmed Dean's Office In-charge organized the Eye Health Advisor program at Dubai Pharmacy College on 4th March 2014 from 9 a.m. to 3 p.m. as good eye health and optimal vision are critical factors to help students perform better in college at work and at play. This program was sponsored by Johnson & Johnson, Yateem Optics and Acucvue. About 132 students, 20 staff and 32 labors were screened. The objective of this program was to implement free vision and eye health and offer free Acucvue trial lenses to all who require vision correction. It was found that more than 50% of students who were screened had less than normal vision. Thus this program encouraged the educators to make healthy vision a priority for the students.



DPC's Green Day

Green is the colour of nature, fertility and life, the colour of balance. On 27th March 2014, Dubai Pharmacy College came together to recreate and relive this balance, the balance between humans and the earth that most of us have long forgotten but knowingly or unknowingly, it continues to affect us. DPC's first ever **Green event**, our **Community Engagement Program** for the month of March, was primarily aimed at raising awareness on the college's water and electricity consumption. With everyone showing their support by wearing green, the college looked like an evergreen plant.

The best part about the day was that the green team could see their month-long efforts come to life. Behavioural change is widely recognised as the single most significant way to reduce energy consumption, far exceeding the benefits of most technological initiatives. Thus, our campaign did it the old-fashioned way: urging people to reduce consumption at home and college.

Part of the campaign was the **Poster Competition** which of course was themed on reducing energy and water consumption. A lot of entries were submitted which were exceptionally done and beautifully displayed on our very own college wall. Our esteemed judging panel consisted of all the teaching and non-teaching staff. After carefully studying the posters and giving marks on various topics, a winner was declared. All the participants received participation certificates and appreciation crystals from the college along with a signature green scarf.



One thing all of us learnt was that we should never take energy for granted. Energy Conservation is unquestionably of great importance to all of us, since we rely on energy for everything we do every single day. While no-one argues against the importance of water to life on Earth, it's fair to wonder if life could exist elsewhere without it. I will leave that to you to answer.

Quoting Gary Starta: 'it's hard to be a bright light in a dim world'. Even harder to become an energy saving light!

Reported By:
Sidra Parveen (3rd Year)





DPC faculty and staff on Green Day

DPC's Green Head Representatives are:

1st Year	2nd Year	3rd Year
Sabika Al-Hindi	Nourhan Abdelaal	Afnan AlZamrooni
Sharmina Begam	Mariam Al-Saadi	Sidra Parveen



Title of research publication:

A new natural gel of *Fagonia indica* Burm f. extract for the treatment of burn on rats

Authors: Bazigha Kadhim Abdul Rasool*, Naglaa Gamil Shehab, Saeed Ahmed Khan and Fatehia Aly Bayoumi

Published in Pak. J. Pharm. Sci., Vol.27, No.1, January 2014, pp.73-81

Abstract: *Fagonia indica* Burm f. (Mushikka or white spine) is a plant distributed in the deserts of Asia and Africa and reported to be medicinal in the scientific literature as well as in the folk medicine. Earlier investigations, the authors isolated a number of bioactive constituents from the plant including flavonoids, sterols and triterpenoids; In addition its flavonoidal content was found remarkably high reaching 3% (calculated as flavonol on dry weight). The present study is an attempt to formulate, characterize and evaluate a natural wound-healing gel preparation containing the crude plant extract. Three formulae (F1-F3) were prepared. The gel properties such as viscosity, swelling ratio, bio-adhesion, *in vitro* release, stability, microbiological studies, *in vivo* burn healing test on rats and histopathological features were assessed. The results of the *in vitro* evaluation and stability studies showed that F3 (0.5% (w/w) of plant extract in 4% (w/w) chitosan) was significantly ($p < 0.05$) the superior compared to other formulations. Besides, from the *in vivo* burn healing and histological results, F3 enhanced the skin wound re-epithelialization and speed up the healing process compared to the conventional commercial product. Thus, the *Fagonia* extract loaded chitosan topical gel would be used successfully in burn wound care.



Dr. Bazigha
Department of pharmaceuticals
dr.bazigha@dpc.edu

