

# Curriculum Vitae

## Ibrahim M. El-Bagory, PhD

<u>Biographic Data:</u> <u>Academic</u> <u>Education</u>	Date of Birth; Place of Birth; Nationality; Marital Status; Phone; Email Address; Email Address; Website;	20/10/1959 Cairo/Egypt Canadian Married with three daughters +966-507665791 (Saudi Arabia) +613-2280866, +613-8595435 (Canada) ielbagory@gmail.com ibrahim.elbagory@nbu.edu.sa https://elbagory.ca
	1989– 1994 PhD Pharmaceutics a	University of British Columbia Vancouver/Canada Al-Azhar University, Cairo/Egypt and Pharmaceutical Technology.
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	1982 - 1989	Al-Azhar University, Cairo/Egypt
	Masc., Pharmaceutic	S.
	1977 - 1982	Al-Azhar University, Cairo/Egypt
	BSc. Chemistry and P	harmaceutical Sciences.
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Current Address	Northern Border Ur	niversity,

Arar, Saudi Arabia Phone: (+966) 507665791,

Work History	<ul> <li>Professor, Consultant Rector Office, 2019 to date, Northern Border University, P.O. Box 1321 Arar, Saudi Arabia.</li> <li>Professor, vice dean, college of nursing, 2020 to date, Northern Border University, P.O. Box 1321 Arar, Saudi Arabia.</li> <li>Professor, Director Academic Affair, 2020 to date, College of Nursing, Northern Border</li> </ul>
	<ul> <li>University, P.O. Box 1321Arar, Saudi Arabia.</li> <li>Professor, 2018 to 2019: Prof. pharmaceutics , College of Pharmacy, Al-Jouf University, P.O. Box 2014 Sakaka, Al-Jouf Saudi Arabia.</li> </ul>
	<ul> <li>Professor, 2013 to 2018: Director Academic Affair, College of Pharmacy, Al-Jouf University, P.O. Box 2014 Sakaka, Al-Jouf Saudi Arabia.</li> </ul>
	<ul> <li>Professor, 2013 to 2018: Head Department of Pharmaceutics, College of Pharmacy, Al-Jouf University, P.O. Box 2014 Sakaka, Al-Jouf Saudi Arabia.</li> </ul>
	<ul> <li>Professor, 2011 to date: Consultant, World Bank for Reconstruction and Development, Pharmacy Sector, Washington, DC, USA.</li> <li>Professor, 2009 to 2013: Dept. of Pharmaceutics, College of Pharmacy, King Saud University, P.O. Box 2457 Riyadh 11451 Saudi Arabia</li> </ul>
	<ul> <li>Associate Professor, 2004 to 2009: Dept. of Pharmaceutics, College of Pharmacy, King Saud University, P.O. Box 2457 Riyadh 11451 Saudi Arabia</li> </ul>
	<ul> <li>Assistant Professor, 2000 to 2004: Dept. of Pharmaceutics, College of Pharmacy, King Saud University, P.O. Box 2457 Riyadh 11451 Saudi Arabia.</li> </ul>
	<ul> <li>Research Fellowship, 1989 – 1994: Dept. of Pharmaceutics, Faculty of Pharmaceutical Sciences, University of British Columbia, and Vancouver, Canada.</li> </ul>
	<ul> <li>Research Assistant, 1982-1989: Pharmaceutics and Industrial Pharmacy Dept., Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt.</li> </ul>
Administrative Activities	<ul> <li>Member Northern Border University Scientific Council</li> <li>Active member of promotion committee, Northern Border University</li> <li>Member Aljouf University Scientific Council.</li> <li>Director academic affairs responsible for establishing and controlling the undergraduate program, College of Pharmacy, Aljouf university</li> <li>Internal auditing reporter of program specification undergraduate stage, College of Pharmacy, Aljouf university</li> <li>Active member of committee responsible for processing to the USA and Canadian Accreditation achievement { College of Pharmacy, King Saud University is now Accredited from the Accreditation Council for Pharmacy Education, Canada, 2011}</li> <li>Active member of college self-study committee. I was responsible of establishing many standards such as;</li> </ul>

- *St. I* College Mission, Goals, Objectives, and Core values for the college of pharmacy.
- St. III Evaluation of achievements of mission and goals (over all evaluation)
- Coordinator and Organizer (RDCP) Research and Development center of Pharmaceuticals, College of Pharmacy, King Saud University.
- Controller of Kayyali Research Chair for Pharmaceutical Industries, College of Pharmacy, King Saud University.
- Active member of Continuing Education Program, Saudi Pharmaceutical Society.
- Active member of the College Annual Report Team.
- Active member of King Saud University Student Counseling Center (KSUSCC).
- ExCo member of International Pharmaceutical Federation (FIP), Industrial Pharmacy Section (IPS), Dean Hague, Netherland.
- Organizer and Co-organizer of many conferences held by Kayyali Research Chair for Pharmaceutical Industries.
- Member of Riyadh Technology Incubation Center, King Saud University.
- Active member of Center of Research Excellence for Biotechnology, King Saud University
- Active member of Annual Report Team Work, College of Pharmacy, King Saud University.
- The Interchangeability of Generics and Brand Leaders (Are They Truly Equivalent). Lecture presented at Russian University First Meeting, April 28<sup>th</sup>, 2018.

#### **Presentation**

- Design of Liposomal colloidal systems for ocular Delivery of Ciprofloxacin, paper presented at2015 AAPS Annual Meeting and Exposition, October 25-29, 2015, Orlando, Florida, USA.,
- Design and In Vivo Evaluation of Diclofenac Sodium Sustained Release Matrix Tablet: Effect of Compression force", Lecture presented at 2nd International Conference of Pharmaceutics and Novel Drug Delivery System, Omics Group, February 24-26, 2014, San Anotnio Hilton Airport Marriott Waterfront, USA.
- "Gamma Irradiation of Ciprofloxacin in Solid State and In Gel Formulations: Physico-Chemical Characterization", Lecture presented at 2nd International Conference of Pharmaceutics and Novel Drug Delivery System, Omics Group, February 20-22, 2012, San Francisco Airport Marriott Waterfront, USA.

- "Role of Industrial Pharmacists in Drug Development", Guest Speaker at the World Congress of Pharmacy and Pharmaceutical Sciences, FIP, 3-8 September, 2011, Hyderabad, India.
- "Reactivity of Prednisolone to Gamma Radiation in Aqueous and Organic Solutions". Ibrahim A. Al-Sarra, Ibrahim M. El-Bagory, Ahmed A. Bosela, Paper presented at 14th Annual CSPS Modern Therapeutics Conference, May 24-27, 2011, Montreal, Quebec, Canada.
- "Formulation and In-Vitro Evaluation of Theophylline Matrix tablets prepared by Direct Compression: Effect of Polymer Blends". Ibrahim M. El-Bagory, Nahla Barakat, Mohamed Ibrahim and Fouza Al-Enazi, Paper presented at 70th International Congress of FIP, Aug 28- 2 Sept, 2010 in Lisbon, Portugal.
- "Effect of Polymer Blend on Diltiazem HCl Matrix tablets Prepared by Direct Compression". Ibrahim M. El-Bagory, Nahla Barakat, Mahmud El-Badry, Mohamed Ibrahim and Fouza Al-Enazi, Paper presented at 13th Annual CSPS Symposium, June 2-5, 2010 in Vancouver, British Columbia, Canada.
- "IN-VITRO EVALUATION OF POLYMERS AND POLYMER BLENDS AS TABLET MATRICES". Ibrahim M. El-Bagory, Nahla Barakat, Mahmud El-Badry, Mohamed Ibrahim and Fouza Al-Enazi Paper presented at 69th International Congress of FIP, Sept 2-7, 2009 in Istanbul, Turkey.
- "Effect of Kollidone SR on the Release of Albuterol Sulfate from Matrix Tablets". Walid Sakr, Ibrahim M. El-Bagory, Adel Sakr, Paper presented at 69th International Congress of FIP, Sept 2-7, 2009 in Istanbul, Turkey.
- "Effect of Administration of Milk on the Absorption of Diclofenac in Beagle Dogs". Fahad I. Al-Jenoobi\*1, Ibrahim M. El-Bagory1, Mohsen A. Bayomi1, Aws Alshamsan2, Mohammed M. El-Dardiri1, Mohammed Al-Sinady1Paper presented at 12th CSPS Annual Symposium, June 3-6, 2009 in Toronto, Canada.
- "Protective Effect of Scavengers and Surfactants on Gamma Irradiated Cortisone Acetate Aqueous Solutions". El-Bagory, I.M. Paper presented at 11th Annual CSPS Symposium, May 22-25, 2008 in Banff, Alberta, Canada.
- "Evaluation of prolonged release carbamazepine granules prepared from lipophilic matrix". Barakat, N.S., El-Bagory, I.M. and El-Morshedi, A.S. Accepted at (2003 the 6th SPIC Saudi Pharmaceutical International Conference). Riyadh, October 6-9, 2003.
- "Preparation and evaluation of sustained release casein-chitosan microspheres containing indomethacin ". El-Bakry, A.M., Gomaa, H.A., Kassem, A.A., Al-Jenoobi, F.I. and El-Bagory, I.M. Accepted at (2003 the 6th SPIC Saudi Pharmaceutical International Conference). Riyadh, October 6-9, 2003.
- "Chitosan sodium citrate interaction for the preparation of prolonged release theophylline tablet using wet granulation method ". I. A. Alsarra, M. A. Bayomi, I. M. El-Bagory. Accepted at (2003 AAPS ANNUAL MEETING AND EXPOSITION). Salt Lake City, UT, October 26-30, 2003.

	• "Preparation of Theophylline Microspheres Using Ethylcellulose as Forming Material: Effect of Ionizing Radiation on Release" Ibrahim M. El-Bagory, Ehab A. Hosny, Saleh A. Al-Suwayeh, Fahad I. Al-Jenoobi and Gamal M. Mahrous. (AL-AZHAR 2ND INTERNATIONAL CONFERENCE FOR PHARMACEUTICAL AND BIOLOGICAL SCIENCES). Nacr City, Egypt, December 19-21, 2001.
	• "Increase in Energy Release from Tablets Compressed from Gamma Radiation Powders" Ibrahim M. El-Bagory, A. A. Kasem, H. H. El-Shattawy and A. G. Mitchell. (AAPS EIGHTH ANNUAL MEETING AND EXPOSITION). Lake Buena Vista, Florida, November 14-18, 1993.
	<ul> <li>"Peroxicam-synthetic polymers interactions", H. H. El-Shattawy, E. I. Ahmed, M. A. Bayomi, I. M. Abdel-Fatah. (THE 9TH PHARMACEUTICAL TECHNOLOGY CONFERENCE). Veldhoven, Holland, April 4-6, 1990.</li> </ul>
	<ul> <li>"Piroxicam-Natural polymers interactions", H. H. El-Shattawy, E. I. Ahmed, M. A. Bayomi, I. M. Abdel-Fatah. (THE 4TH EUROPEAN CONGRESS OF BIOPHARMACEUTICS AND PHARMACOKINETICS). By FIP, Geneva, Switzerland, April 17-19, 1990.</li> </ul>
<u>Area of Research</u> Interest	<ul> <li>Pharmacy Biotechnology</li> <li>Industrial Pharmacy</li> <li>Solid Dosage Form Technology.</li> <li>Ionizing Radiation technology (Gamma Radiation).</li> <li>Crystallography.</li> <li>Oral Drug Delivery and Targeting System</li> </ul>
Taaahing Fielde	
Teaching Fields	Physical Pharmacy and Pharmaceutical Technology.
	Industrial Pharmacy.
	• Drug delivery
	Nuclear Pharmacy
	<ul> <li>Pharmacy Biotechnology</li> </ul>

#### Professional Memberships

- International Pharmaceutical Federation (FIP), ExCo member 2009
- Canadian Society of Pharmaceutical Scientist (CSPS), member 2008.
- American Association of Pharmaceutical Scientists (AAPS), member since 1992.
- Saudi Pharmaceutical Society (SPS), member since 2003.
- Egyptian Pharmaceutical Society, member since 1990.
- The Arab Pharmacists Union, member since 1985.
- Syndicate Pharmacists of Egypt, member since 1982.

Scientific Activities

- External examiner, MSc. Thesis, (Beni Suef University), (2019).
- External examiner, MSc. Thesis, (Beni Suef University), (2018).
- External examiner, MSc. Thesis, (King Abdulaziz University), (2015).
- External examiner, MSc. Thesis, (King Abdulaziz University), (2015).
- External examiner, Ph.D. Thesis, (India, Hydarabad), 2014
- External examiner, MSc. Thesis, (Al-Azhar University), (2011).
- External examiner, MSc. Thesis, (Alexandria University), (2011).
- External examiner, MSc. Thesis, (King Saud University).(2008).
- External examiner, MSc. Thesis," (King Saud University). (2004).
- Scientific evaluation a proposals submitted to annual grants program, King Abdulaziz City for Science and Technology, KSA
- Scientific evaluation of research papers submitted to Saudi Pharmaceutical Journal, KSA
- Reviewer and Scientific evaluation of research papers submitted to Journal of Drug Development and Industrial Pharmacy, USA

# Postgraduate<br/>Students• Omran Mohamed B Pharm (King Saud University). Principle advisor, MSc. Thesis (In<br/>process)

- Magda Al-Anazi, B Pharm (King Saud University). Co- advisor, MSc. Thesis (2011)
- Khloud Salama, B.Pharm (King Saud University). Co-advisor, MSc. Thesis (2010)
- Fouza K. Al-Enazi, B Pharm (King Saud University). Principle advisor, MSc. Thesis (2009)
- Alanood S. Almurshedi, B.Pharm (King Saud University). Co-advisor, MSc. Thesis (2007)
- Asmaa M. El-Bakry, B.Pharm (Al-Azhar University). Principle advisor, MSc. Thesis. (2003)

#### **Publications**

- "Design of polymeric nanoparticles for oral delivery of capreomycin peptide using double emulsion technique: Impact of stress conditions", Ahmed S.M. Alenazi, Ibrahim M. El-Bagory, Alaa B. Yassin, Fars K. Alanazi, Ibrahim A. Alsarra, Nazrul Haq, Mohsen A. Bayomi, Faiyaz Shakeel, Journal of Drug Delivery Science and Technology 71, 103326, (2022).
- "Development of a Novel Methotrexate-Loaded Nanoemulsion for Rheumatoid Arthritis Treatment with Site-Specific Targeting Subcutaneous Delivery", Parvathy Suresh, Mounir M. Salem-Bekhit, Hafsa Palathum Veedu, Sultan Alshehri, Sreeja Chandrasekhar Nair, Sarah I. Bukhari, Vidya Viswanad Ehab I. Taha, Ram Kumar Sahu, Mohammed M. Ghoneim and Ibrahim Elbagory, Nanomaterials, 12, 1299, (2022).
- "Unique Properties of Surface-Functionalized Nanoparticles for Bio-Application: Functionalization Mechanisms and Importance in Application', Faheem Ahmad, Mounir M. Salem-Bekhit,\*, Faryad Khan, Sultan Alshehri, Amir Khan, Mohammed M. Ghoneim, Hui-Fen Wu, Ehab I. Taha and Ibrahim Elbagory, Nanomaterials, 12, 1333, (2022).
- "Mucormycosis in Indian COVID–19 Patients: Insight into Its Patho-Genesis, Clinical Manifestation, and Management Strategies", Ram Kumar Sahu, Mounir M. Salem-Bekhit, Bedanta Bhattacharjee, Yosif Almoshari, Abu Md Ashif Ikbal, Meshal Alshamrani, Alakesh Bharali, Ahmad Salawi, Retno Widyowati, Abdulrahman Alshammari and Ibrahim Elbagory, Antibiotics, 10, 1079, (2021).

- "Development of Novel Dapagliflozin Loaded Solid Self-Nanoemulsifying Oral Delivery System: Physiochemical Characterization and In-vivo Antidiabetic Activity" Ameedu zzafar, Ibrahim El-Bagory, Nabil K. Alruwaili, Mohammed H. Elkomy, JavedAhmad, Muhammad Afzal, Naveed Ahmad, Mohammed Elmowafya, Khalid, Saad Alharbi, Md Shoaib Alamd, JDDST, Vol. 54, 101279 (2019).
- "Quality by Design (QbD) Based Development and Validation of Bioanalytical RP-HPLC Method for Dapagliflozin: Forced Degradation and Preclinical Pharmacokinetic study" Ameedu zzafar, Ibrahim El-Bagory, Nabil K. Alruwaili, Syed Sarim Imam, Fadhel Ahmed Alomar, Mohammed H. Elkomy, Naveed Ahmad, and Mohammed Elmowafy, JL.Chromat & Related Technologies, 1667820 (2019).
- "Fatty alcohol containing nanostructured lipid carrier (NLC) for progesterone oral delivery: In vitro and ex vivo studies" Mohammed Elmowafy, Khaled Shalaby, Mohamed M. Badran, Hazim M. Ali, Mohamed S. Abdel-Baky, Ibrahim El-Bagory, JDDST, Vol. 45, 230-239, (2018).

- "Formulation and In Vivo Evaluation of Diclofenac Sodium Sustained Release Matrix Tablet: Effect of Compression force", Ehab I. Taha, Gamal A. Shazly, Nahla S. Barakat, Fouza K. Al-Enazi, Ibrahim M. Elbagory, Pak. J. Pharm. Sci., Vol. 28, No. 2, 573-579, (2015).
- "Design of liposomal colloidal systems for ocular delivery of ciprofloxacin", Ehab I. Taha, Magda H. El-Anazi, Ibrahim M. El-Bagory, Mohsen A. Bayomi, SPJ, Vol. 22, 231-239, (2014).
- "Role of Pluronic F127micelles for enhanced ocular bioavailability of ciprofloxacin", Ehab I. Taha, Mohamed M. Badran, Magda H. El-Anazi, Mohsen A. Bayomi, Ibrahim M. El-Bagory, Journal of Molecular Liquids, Vol. 199, 251-256, (2014).
- "Formulation and In Vitro Evaluation of Theophylline Matrix Tablets Prepared by Direct Compression: Effect of Polymer Blends", Ibrahim M. El-Bagory, Nahla S. Baraka, Mohamed A. Ibrahim and Fouza K. El-Enazi, SPJ, Vol. (20), 3, 229-238, (2012).
- "Formulation optimization and biopharmaceutical evaluation of nifedipinecyclodextrin fast release tablets.", Saleh A. Al-Suwayeh, Jia-You Fang, Ibrahim M. El-Bagory, Mohsen A. Bayomi and Ehab I. Taha. African Journal of Pharmacy and Pharmacology, African Journal of Pharmacy and Pharmacology Vol. 5(15), pp. 1757-1764, (2011).
- "Optimization of 5-Flurouracil Solid-Lipid Nanoparticles: a Preliminary Study to Treat Colon Cancer", Yassin AE, Anwer MK, Mowafy HA, Ibrahim M. El-Bagory, Bayomi MA, Alsarra I. Int J Med Sci.,7(6):398-408 (2010).
- "Effect of Polymer Blend on Diltiazem HCl matrix Tablets Prepared by Direct Compression". Ibrahim M. El-Bagory, Nahla S. Baraka, Mahmoud El-Badry, Mohamed A. Ibrahim and Fouza K. El-Enazi, J. Pharm. Sci. Tec., Vol 2 (7), 252-268 (2010).
- "Effect of Gamma Irradiation on Pluronic Gels for Ocular Delivery of Ciprofloxacin: In Vitro Evaluation", Ibrahim M. El-Bagory,, Mohsen A. Bayomi, Gamal M. Mahrous, Fars K. Alanazi and Ibrahim A. Alsarra, Aust. J. Basic and Appl. Sci., 2010.
- "Reactivity of Prednisolone to Gamma Radiation in Aqueous and Organic Solutions", A.A. Bosela, K.K. Salama, I.A. Alsarra and Ibrahim M. El-Bagory, J. Drug DEL. SCI. TECH., 20, (3), 2010.
- "Controlled-release carbamazepine matrix granules and tablets comprising lipophilic and hydrophilic components". Nahla S. Barakat, Ibrahim M. Elbagory, and Alanood S. Almurshedi, Drug Delivery, 16(1): 57–65 (2009).

- "Formulation, release Characteristics and Bioavailability Study of Oral Monolithic Matrix Tablets Containing Carbamazepine". Nahla . Barakat, Ibrahim M. Elbagory, and Alanood S. Almurshedi. AAPS Pharm. Sci. Tech. (2008).
- "Controlled-Release Carbamazepine Granules and Tablets Comprising Lipophilic and Hydrophilic Matrix Components". Nahla S. Barakat, Ibrahim M. Elbagory, and Alanood S. Almurshedi. AAPS Pharm. Sci. Tech. (2008).
- "Saudi-corn starch as a tablet excipient compared with imported starch". Fars K. Alanazi, Ibrahim M. El-Bagory, Ibrahim A. Alsarra, Mohsen A. Bayomi and Mostafa Abdulgaoy. Saudi Pharm. J. 2, (2008).
- "Characterization of Directly Compressed Diclofenac Tablets Prepared by Avicel Blends", I.M. El-Bagory, Sc. J. Med. Fac. (Girls), 29, (3), (2008).
- "Protective effect of scavengers and surfactants on gamma irradiated cortisone acetate aqueous solutions". I.M. El-Bagory, J. Drug DEL. SCI. TECH., 17, (6), (2007).
- "Effect of gamma radiation on the physicochemical properties of ciprofloxacin in solid state". A. M. Al-Mohizea, I. M. El-Bagory, I.A. Alsarra, F.I. Al-Jenoobi, A. M. Bayomi., J. Drug DEL. SCI. TECH., Vol. 17, No. 3, 211-215,(2007).
- "Effects of sphere size, polymer to drug ratio and plasticizer concentration on the release of theophylline from ethyl cellulose microspheres". Ibrahim M. El-Bagory, Ehab A. Hosny, Saleh A. Al-Suwayeh, Gamal M. Mahrous and Fahad I. Al-Jenoobi., Saudi Pharm. J. Vol. 15, No. 3-4, 213-217, (2007).
- "Sensitivity of Hydrocortisone to Gamma Radiation in Topical Preparations". A.A. Bosela and I.M. El-Bagory. 2006, Sc. J. Az. Fac. (Girls). Vol. 27, No. 3, 1463-1477.
- "Chitosan and Sodium Citrate as Excipients in the preparation of prolonged release theophylline tablets". Ibrahim A. Alsarra, Ibrahim M. El-Bagory and Mohsen A. Bayomi, Drug Develop. Ind. Pharm., 2005, 31: 385-395.
- "Formulation and evaluation of prolonged release carbamazepine granules prepared with lipophilic matrices". N.S. Barakat, I.M. El-Bagory, A.S. Almurshedi. 2005, Sc. J. Az. Fac. (Girls). Vol. 26, No. 2, 1285-1309.
- "Effect of different vehicles on hepatoprotective efficiency of desferrioxamine in radiated carbon tetrahydrochloride treated mice", Ibrahim M. El-Bagory and Mahmoud Mansour. 2003; Scienta Pharmaceutica, Vienna, Vol.71, 19-33.
- "Preparation and evaluation of indomethacin sustained release cross-linked chitosan microspheres", I.M. El-Bagory, A.A. Kassem and A.M. El-Bakry. Jan, 2003, Sc. J. Az. Fac. (Girls). Vol. 24, No. 1.

- "Preparation of casein-chitosan sustained release microspheres containing indomethacin", A.A. Kassem, I.M. El-Bagory and A.M. El-Bakry. Sep, 2002, Sc. J. Az. Fac. (Girls). Vol. 23, No. 3.
- "Effect of Crystal Imperfections on the In-Vitro release of Theophylline Microspheres", Ibrahim M. El-Bagory. Sep, 2002, Sc. J. Az. Fac. (Girls). Vol. 23, No. 3.
- "Effect of ionizing radiation on the physical properties and hepatotoxicity of carbon tetrachloride", Ibrahim M. El-Bagory and Mahmoud Mansour. Dec. 2002, Al-Azhar Journal of Pharmaceutical Science: Vol. 30.
- "Effects of different gamma radiation doses on solid crystalline insulin: hypoglycemic in diabetic beagle dogs", Ehab A. Hosny, Ibrahim M. El-Bagory and Fahad I. Al-Jenoobi. Nov. 2002; Boll Chem. Farm, 141(6): 466-70.
- "Enteric-coated insulin capsules: a combination with or a replacement of oral hypoglycemic drugs", Ehab A. Hosny, Ibrahim M. El-Bagory and Fahad I. Al-Jenoobi. Sep.-Oct. 2002; Boll Chem. Farm, 141(5): 379-84.
- "Bioavailability of theophylline from rectal suppositories in rats: effect of polycarbophil", Ibrahim M. El-Bagory. Dec. 2001, Al-Azhar Journal of Pharmaceutical Science: Vol. 28.
- "The effect of gamma radiation on the tableting properties of some pharmaceutical exciepients", Ibrahim M. El-Bagory, B.D. Ried and A.G. Mitchell. International Journal of Pharmaceutics, Vol. 105, (1994) 225-258.
- "Piroxicam-synthetic polymers interactions", H. H. El-Shattawy, E. I. Ahmed, M. A. Bayomi, I. M. Abdel-Fatah. 1994. Die pharmazeutische industrie, Vol 56 (4), 396-399.
- "Piroxicam-Natural polymers interactions", H. H. El-Shattawy, E. I. Ahmed, M. A. Bayomi, I. M. Abdel-Fatah. 1991. European Journal of Drug Metabolism and Pharmacology. Special Issue. No. III, 397-405.

#### PATENCY:

<u>"Saudi-Cultived and Produced Starch as Binder and Disintegrant in Comparison to Imported</u> <u>Starch</u> Application Number 109300198 (25/3/2009).

#### References:

#### Yousif Abdu A. Asiri, PhD

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#### Ayman El-Kadi, PhD

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