



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

## CURRICULUM VITAE

**Name** : Prof. Dr. Adel Sakr

**Position** : Professor of Industrial Pharmacy & Pharmaceutics and  
Board of Trustees Chair Assistant For  
Graduate Studies, Research and International Affairs

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## **QUALIFICATIONS**

Bachelor of Pharmaceutical Sciences, University of Alexandria, Egypt, 1960  
 Diploma in Industrial Pharmacy, University of Alexandria, Egypt, 1961  
 Doctor of Philosophy (Ph.D. Industrial Pharmacy), University of Strathclyde, Glasgow, Scotland, U.K., 1966

## **Academic, Industrial and Administrative Experience**

2011-current	Professor of Industrial Pharmacy & Pharmaceutics and Board of Trustees Chair Assistant for Graduate Studies, Research and International Affairs, Future University, Egypt.
2009- 2011	Distinguished Chaired Professor of Industrial Pharmacy & Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, Kingdom of Saudi Arabia.
1985-2008	Professor of Industrial Pharmacy and Pharmaceutics, and Director of Industrial Pharmacy Graduate Program, College of Pharmacy, University of Cincinnati Medical Center, Cincinnati, Ohio, U.S.A.
1983-1985	Coordinator of Graduate Courses, College of Pharmacy, University of Puerto Rico. Professor of Industrial Pharmacy and Pharmaceutics; Pharmacy Industry Chaired Professor, College of Pharmacy, University of Puerto Rico, San Juan, Puerto Rico, U.S.A.
1982-1983	Director, Solid Dosage Forms Laboratories, Pharmaceutical Research and Development, Degussa Pharma Group, Frankfurt and Belfield, West Germany
1980-1981	Trainee for Middle East Director Hoechst A G, Frankfurt, West Germany
1977-1980	Visiting Professor, Department of Pharmaceutical Technology, Institute of Pharmacy, University of Tuebingen, Tuebingen, West Germany
1967-1978	Associate Dean, College of Pharmacy, University of Assiut, Egypt  Professor of Industrial Pharmacy and Chairman of Department of Industrial Pharmacy, College of Pharmacy, University of Assiut, Assiut, Egypt

Associate Professor and Acting Chairman, Department of Industrial Pharmacy,  
University of Assiut, Assiut, Egypt

Lecturer, Department of Pharmaceutics, College of Pharmacy,  
University of Assiut, Assiut, Egypt

1962-1966 Graduate Student and Part-Time Instructor, Department of  
Pharmaceutical Technology, University of Strathclyde, Glasgow,  
Scotland, Great Britain

1960-1962 Instructor, Department of Pharmaceutics, College of Pharmacy,  
University of Alexandria, Alexandria, Egypt.

### **Honors**

Fellow, American Association of Pharmaceutical Scientists  
University of Cincinnati Faculty Achievement Award  
Graduate Fellow, University of Cincinnati  
Doctor Honoris Causa, University of Medicine and Pharmacy, Iasi, Romania  
Congress Chair, FIP-Industrial Pharmacy Section, 2005-2008  
Recipient of 2008 AAPS Outstanding Educator Award  
Recipient of 2008 Egyptian Pharmaceutical Society Gold Medal Award of Life Time  
Distinguished Scientific Achievement  
Fellow, International Federation of Pharmacy  
Recipient of 2011 AAPS Research Achievement Award for Manufacturing Science and  
Engineering

### **Membership in Professional Activities**

American Pharmaceutical Association  
American Association of Colleges of Pharmacy  
American Association of Pharmaceutical Scientists  
Controlled Release Society  
Egyptian Pharmaceutical Society  
Federation International Pharmaceutique  
Society of Cosmetic Chemists  
Saudi Pharmaceutical Society

### **Professional Activities**

Member, Editorial Board, Pharmaceutical Development and Technology, USA  
Member, Editorial Board, Die Pharmazeutische Industrie, Germany  
Member, Editorial Board, Die Pharmazie, Germany  
Member, Editorial Board, Saudi Pharmaceutical Journal, KSA

Reviewer, Journal of Pharmaceutical Sciences, USA  
Reviewer, Pharmaceutical Research, USA  
Reviewer, Journal of Pharmacy & Pharmacology, England  
Reviewer, Foundation for Research Development, South Africa  
Congress Chair, FIP-Industrial Pharmacy Section 2005-2008

### **Consultant/Expert Witness**

U.S. F.D.A.  
Pharmaceutical Companies (U.S.A. & EUROPE)  
Law Firms (U.S.A.)

### **GRANTS AND SCHOLARSHIPS**

R&D Contract, American Pharmaceutical International, \$2,500,000.00,  
1998-2006

R & D contracts, various companies, \$500,000.00, 1997

Unrestricted funds, various companies, \$100,000.00, 1996

Unrestricted funds, various companies, \$70,000.00, 1995

Unrestricted funds, various companies, \$70,000.00, 1994

Unrestricted funds, various companies, \$50,000.00, 1993

Unrestricted fund, P&G, \$25,000.00, 1992

Unrestricted fund, Andrew Jergens Co., \$15,000.00, 1992

Unrestricted fund, Egyptian Embassy, \$10,000.00, 1992

Graduate Support, Kabi Pharmacia, Sweden, \$10,000.00, 1991.

Graduate Support, Andrew Jergens Co., \$15,000.00, 1991

Graduate Support, Kabi Pharma, Sweden, \$15,000.00, 1990.

Industrial Grant, "A Proposal to Upgrade and Strengthen Industrial Pharmacy Capabilities of the College of Pharmacy, U.C." \$390,000.00, 1988/1989 and

unrestricted funds, student awards and graduate fellowship, Procter and Gamble, \$12,000.00, 1988/1989.

Graduate Support, P&G, \$47,000.00, 1990/1991

Unrestricted funds, various pharmaceutical companies, \$15,000.00, 1988/1989

Equipment donation, Procter & Gamble, \$100,000.00, 1988/1989

NIH Area Grant, "Effect of Formulation on Bioavailability of Diuretics", \$50,000.00, Principal Investigator, 1987/1989

Society of Cosmetic Chemists Educational Support Program Grant, \$42,500.00, Co-Investigator, 1987/1992

Unrestricted Funds, Student Awards, and Graduate Fellowship, Procter & Gamble, \$12,050.00, 1987/1988/99/00

Unrestricted Fund, Kinaform Technology, \$5,000.00, 1987/1988

Unrestricted Fund, Adria Laboratories, \$4,000.00, 1987/1988

Unrestricted Fund, Dodge Company, \$6,000.00, 1987/1988

Equipment Donation, Lederle Labs, \$8,000.00, 1987/1988

Equipment Donation, Erweka Inc., \$6,000.00, 1987/1988

Chemical Donations, various suppliers, about \$3,000.00, 1985/1986

Unrestricted Fund, Procter & Gamble, \$14,000.00, 1986

Unrestricted Fund, Gentek Corporation, \$1,440.00, 1986

A \$3,000.00 grant from Roche Products, Inc., Manati, Puerto Rico, to support Student Research Assistants, Summer, 1985

Deutsche Forschungsgemeinschaft Grant, \$50,000.00, Institute of Pharmacy, University of Tuebingen, West Germany, 1979/1980. Alexander Von Humboldt Stiftung Scholarship, \$40,000.00, Institut of Pharmacy, University of Tuebingen, West Germany, 1977/1978

Egyptian National Award of Excellence, Egyptian Ministry of High Education, University of Assiut, Covering Travel Expenses, Books, Educational Fees and Monthly Allowances for 4 years to study Ph.D. degree in Great Britain, a total of approx. \$30,000.00, 1962/1966

### **Educational Activities**

Supervising Ph.D. and M.S. Dissertations and Theses, College of Pharmacy, King Saud University, KSA, 2009 to date

Developing Teaching graduate courses (Industrial Pharmacy Technology I and II, Cosmetic Science Lab, Research in Pharmaceutical Sciences, Cosmetic Research and Development, Seminar in Pharmaceutical Sciences) College of Pharmacy, University of Cincinnati  
1986-2008

Developing and Directing A Graduate Distance Learning Program, College of Pharmacy, University of Cincinnati, 1996-2005

Supervising Ph.D. and M.S. Dissertations and Theses, College of Pharmacy, University of Cincinnati, 1986-2008

Developing and Teaching undergraduate course (Research in Pharmaceutical Sciences) 1986-2008

Developing and Teaching a special technical upgrade program to the production personnel of Gentek Corporation, Cincinnati, Ohio, April-May, 1986

Developing and Teaching graduate courses (Pharmacotechnical Unit Operations, Powder Technology, Research in Pharmaceutical Sciences, Seminar in Pharmaceutical Sciences) College of Pharmacy, University of Cincinnati, 1985/1986

Developing and Teaching undergraduate course Pharmaceutical Technology, 1987-2008

Developing and Team teaching Pharmaceutical Product Development: Clinical and Laboratory, College of Pharmacy, University of Cincinnati, 1995-2008

Developing and Teaching Elective Course, Pharmaceutical Tablet Technology, College of Pharmacy, University of Cincinnati, 1995-2008

Teaching undergraduate courses (Dosage Forms I & II, Dosage Forms Laboratory, Research in Pharmaceutical Sciences) College of Pharmacy, University of Cincinnati, 1985/1986/1987

Teaching a Special Training course on Advanced Solid Dosage Forms Technology, Pfizer Pharmaceuticals, Barceloneta, Puerto Rico, April-July, 1985

Developing and Teaching graduate courses (Projects in Industrial Pharmacy, Seminar in Industrial Pharmacy and Pharmaceutical Units Operations) College of Pharmacy, University of Puerto Rico, 1984/1985.

Developing and Teaching undergraduate course (Manufacture of Selected Dosage Forms) College of Pharmacy, University of Puerto Rico, 1984/1985.

Developing and Teaching a special training course on Advanced Tablet and Capsule Technology to FDA investigators, June 1984-2008

Developing and Teaching graduate courses (Industrial Pharmaceutical Technology, Seminar in Industrial Pharmacy, Projects in Industrial Pharmacy) College of Pharmacy, University of Puerto Rico, 1983/1984/1985

Developing and Teaching undergraduate elective (Undergraduate Research) College of Pharmacy, University of Puerto Rico, 1983/1984 and 1984/1985.

Major advisor, Ph.D. Dissertations and M.S. Theses, College of Pharmacy, University of Cincinnati, 1986-2008

Co-Supervising Ph.D. Dissertations, Institute of Pharmacy, University of Tuebingen, West Germany, 1977-1985.

Supervising (Major Advisor) Ph.D. and M.S. Dissertations and Theses, College of Pharmacy, University of Assiut, Egypt, 1967-1978.

Developing and Teaching graduate and undergraduate courses: Pharmaceutics, Industrial Pharmacy, Industrial Pharmaceutical Technology, Pharmaceutical Manufacturing, Pharmaceutical Unit Operations, Pharmacy, Pharmaceutical Calculations, Dosage Forms, etc., College of Pharmacy, University of Assiut, Egypt, 1967-1976.

Developing and Teaching undergraduate laboratory in Industrial Pharmacy and Pharmaceutics, School of Pharmaceutical Sciences, University of Strathclyde, Glasgow, Scotland, Great Britain, 1962-1966.

Developing and Teaching undergraduate laboratory in Pharmaceutics, Dispensing, and Dosage Forms, College of Pharmacy, University of Alexandria, Egypt, 1960-1962.

Supervised more than 100 M.S., Ph.D., Post-Doctoral Fellows, and Visiting Professors from Germany, Egypt, India, Turkey, Thailand, Romania, Mexico, Jordan, Philippines, Kuwait, Saudi Arabia, Belgium, France, Puerto Rico, Ireland, China and U.S.A.

## **PUBLICATIONS**

1. Czetsch-Lindenwald, H., Abdine, H. and **Sakr, A.**, "Silikonisieren von Arzneiflaschen". Pharm. Ind., 23, 427-430 (1961)
2. Anderson, W., and **Sakr, A.**, "Coating of Pharmaceutical Tablets: The Spray-pan Method". J. Pharm. Pharmacol., 18, 783-794 (1966)
3. Anderson, W., and **Sakr, A.**, "Apparatus for Studying the Disintegration of Tablet Coatings". J. Pharm. Pharmacol., 19, 329-331 (1967)
4. Anderson, W., and **Sakr, A.**, "Spray Pan Coating of Tablets. Manuf. Chem. & Aerosol News", 38 (9), 42-47 (1967)
5. Kassem, A., **Sakr, A.**, and Mesiha, M., "Effect of Granule Size on Physical Standards of Tablets". Manuf. Chem. and Aerosol News, 43 (8), 24-27 (1972)
6. **Sakr, A.**, and Kassem, A., "Factors Affecting Tablet Hardness and Disintegration". Manuf. Chem. & Aerosol News, 43 (9), 37-41 (1972)
7. **Sakr, A.**, and Kassem, A., "Factors Affecting the Physical Standards of Tablets". Manuf. Chem. & Aerosol News, 43 (11), 38-44 (1972)
8. **Sakr, A.**, and Kassem, A., "Factors Affecting Tablet Hardness and Friability". Manuf. Chem. & Aerosol News, 43 (12), 51-55 (1972)
9. **Sakr, A.**, El Sabbagh, H., and Mesiha, M., "Effect of Granule Size and Compression". Manuf. Chem. & Aerosol News, 44 (2), 29-33 (1973)
10. Kassem, A., **Sakr, A.**, and Abdou, H., "Development of a Sustained Release Antispasmodic Tablet". Manuf. Chem. & Aerosol News, 44 (3), 43-45 (1973)



11. Kassem, A., and **Sakr, A.**, "Development of Slow Release in Potassium Chloride Tablets". *Manuf. Chem. & Aerosol News*, 44 (4), 23-29 (1973)
12. **Sakr, A.**, Kassem, A., and Farrag, N., "Effect of Certain Disintegrants on Water Soluble Tablets". *Manuf. Chem. & Aerosol News*, 44 (9), 37-41 (1973)
13. **Sakr, A.**, and El Sabbagh, H., "Delayed Release in Compressed Nicotinic Acid Tablets". *Manuf. Chem. & Aerosol News*, 44 (12), 41-45 (1973)
14. **Sakr, A.**, Kassem, A., Aziz, S., and Shalaby, A., "Evaluation of Sodium Alginate as a Binder for a Water-Soluble Tablet". *Canad. J. Pharm. Sci.*, 8 (1), 6-12 (1973)
15. **Sakr, A.**, El Sabbagh, H., and Emara, K., "Sta-Rx 1500 Starch: A New Vehicle for the Direct Compression of Tablets". *Arch. Pharm. Chemi Sci. Ed.*, 2, 14-24 (1974)
16. **Sakr, A.**, El Sabbagh, H., Kassem, A., and Shalaby, A., "Affect of Binders on the Physical Standards and Dissolution Characteristics of Ephedrine Hydrochloride Tablets". *Arch. Pharm. Chemi Sci. Ed.*, 2, 153-160 (1974)
17. **Sakr, A.**, El Sabbagh, H., Afifi, A., and Shalaby, A., "The Relationship Between B.P. Disintegration Time and The Physiological Availability of Ephedrine Tablets", *Proc XIII Conf. Pharm. Sci.*, Cairo, pp. 193-200, February, 1974.
18. **Sakr, A.**, and Farrag, N., "Effect of Disintegrant Distribution on the Physical Standard of Compressed Tablets", *Arch. Pharm. Chemi Sci. Ed.*, 3, 25-33 (1975).
19. **Sakr, A.**, Kassem, A., and Farrag, N., "Effect of Various Starches on the Physical Standards of Sulphaguanidine Tablets", *Pharm. Ind.*, 36, 799-801 (1974).
20. **Sakr, A.**, Kassem, A., and Farrag, N., "Carboxy Methyl-Starch: A New Tablet Disintegrant", *Pharm. Ind.*, 37, 283-287 (1975).
21. **Sakr, A.**, and El Sabbagh, H., "Correlation of Water Absorption with the Disintegration Effectiveness of Guar Gum", *Pharm. Ind.*, 37, 457-459 (1975).
22. **Sakr, A.**, and El Sabbagh, H., "Effect of Particle Size Distribution on the Disintegrating Efficiency of Guar Gum", *Pharm. Ind.*, 38, 732-734 (1976).
23. El Sabbagh, H., **Sakr, A.**, Kassem, A., and Ibrahim, E., "A New Paper Chromatographic Technique for the Quantitative Determination of Sulphacetamide and Sulphanilamide in Liquid Pharmaceuticals", *Pharm. Ind.* 38, 1002-1005 (1976).
24. **Sakr, A.**, El Sabbagh, H., Aboutaleb, A., and Ali, A., "Comparative Effectiveness of

Certain Disintegrants on Directly Compressed Sulphadimidine Tablets", Egypt J. Pharm. Sci.: 18, 219-233 (1977).

25. **Sakr, A.**, and El Sabbagh, H., "Evaluation of Guar Gum as A Tablet Additive: A preliminary Report", Pharm. Ind., 39, 399-403 (1977).
26. **Sakr, A.**, El Sabbagh, H., and Kassem, A., "Meyprogat: A New Tablet Binder", Pharm. Ind., 39, 915-918 (1977).
27. **Sakr, A.**, El Sabbagh, H., Kassem, A., and Shalaby, A., "Influence of Some Formulation Factors on the Dissolution Rate and Bioavailability of Sulphathiazole Tablets", Pharm. Ind., 39, 1000-1004 (1977).
28. Graf, E., and **Sakr, A.**, "Studies on the Direct Compression of Pharmaceuticals: 1. Stomach Extract", Pharm. Ind., 40, 165-170 (1978).
29. **Sakr, A.**, El Sabbagh, H., and Shalaby, A., "Effect of the Technique of Incorporating Sodium Alginate on its Binding and/or Disintegrating Effectiveness in Sulphathiazole Tablets", Pharm. Ind., 40, 1080-1086 (1978).
30. **Sakr, A.**, Nor Eldin, E., Said, S., and Kassem, M., "Evaluation of New Excipients for the Direct Compression of Vitamin C Tablets", Pharm. Ind., 40, 1187-1193 (1978).
31. El Sabbagh, H., **Sakr, A.** and Abdelhady, S., "Effect of Guar Gum on the Dissolution Rate of Ephedrine Hydrochloride and Sulphadimidine Tablets", Pharmazie, 33, 730-731 (1978).
32. **Sakr, A.**, El Sabbagh, H., Aboutaleb, A., Ali, A., "A Technological Study on the Direct Compression of Sulphonamide Tablets", Pharm. Ind., 40, 1385-1388 (1978).
33. Graf, E., and **Sakr, A.**, "Studies on the Direct Compression of Pharmaceuticals: 2. Pancreatin: Effect of Excipients and Compression Pressure on Amylase and Lipase Activities", Pharm. Ind., 41, 86-91 (1979).
34. Graf, E., **Sakr, A.**, and Gafiteanu, E., "Studies on the Direct Compression of Pharmaceuticals: 3-Ephedrine Tablets: a) Effect of Excipients and Compression Pressure on Directly Compressed Ephedrine HCl Tablets", Pharm. Ind., 41, 884-886 (1979).
35. Abou Taleb, A., **Sakr, A.**, and Abdelrahman, S., "Interaction of Phenacetin with Non-ionic Surfactants", Pharmazie, 35, 99-102 (1980).
36. **Sakr, A.**, Aboutaleb, A., and Khidr, S., "Formulation and Availability of Directly Compressed Salicylate Tablets", Pharmazie, 35, 164-167 (1980).

37. **Sakr, A.**, Kassem, A., Aboutaleb, A. and Saleh, S., "Bioavailability and Dissolution Behavior of Directly Compressed Tetracycline Hydrochloride Tablets", *Pharm. Ind.*, 42, 195-198 (1980).
38. Abou Taleb, A., **Sakr, A.**, and Abdelrahman, S., "Investigation of Salicylamide Solubilized Systems by Molecular Sieve and Ultra filtration Techniques", *Pharm. Ind.*, 42, 940-943 (1980).
39. Graf, E., **Sakr, A.**, and Nada, A., "Studies on the Direct Compression of Pharmaceuticals: 4. Pancreatin. b) Effect of Storage Conditions on Amylase and Lipase Activities", *Pharm. Ind.*, 42 1031-1033 (1980).
40. Graf, E., **Sakr, A.**, and Nada, A., "Studies on the Direct Compression of Pharmaceuticals: 5. Pancreatin, c) Evaluation of Some Lubricants and Their Effect on Amylase and Lipase Activities", *Pharm. Ind.*, 43, 282-286 (1981).
41. Graf, E., Ghanem, A., **Sakr, A.**, and Mahmoud, H., "Studies on the Direct Compression of Pharmaceuticals: 6. Evaluation of Formaldehyde cross linked Gelatin and Casein as Disintegrants", *Pharm. Ind.*, 43, 576-584 (1981).
42. Graf, E., **Sakr, A.**, and Gafiteanu, E., "Studies on the Direct Compression of Pharmaceuticals: 7. Ephedrine Tablets. b) Effect of Excipients on the Bioavailability of Directly Compressed Ephedrine HCl Tablets", *Pharm. Ind.*, 43, 867-870 (1981).
43. Piccolo, J. and **Sakr, A.**, "Influence of Crystalline State and Particle Size on the Dissolution Rate of Erythromycin Estolate", *Pharm. Ind.*, 46 1277-1279 (1984).
44. **Sakr, A.** and Piccolo, J., "Studies on the Controlled Release Drug Delivery Systems", *Pharm. Ind.*, 47, 113-115 (1985).
45. **Sakr, A.** and Oyola, R., "Some Factors Affecting the Dissolution Rate of Micro encapsulated Potassium Chloride in Directly Compressed Tablets", *Pharm. Ind.*, 48 (1), 92-94 (1986).
46. **Sakr, A.**, Rivera, D. and Jimenez, W., "Formulation of a Directly Compressed Antigonadotropic Tablet: 1. Effect of Excipients and Disintegrants", *Pharm. Ind.*, 48 (5), 522-525 (1986).
47. **Sakr, A.**, Vales, G. and Jimenez, W., "Direct Compression of Diuretic Tablets: a Preliminary Report", *Pharm. Ind.*, 49, 401-404 (1987).
48. **Sakr, A.** and Jang, R., "Undergraduate Education in Industrial Pharmacy: A Comparison between U.S. and International Schools of Pharmacy", *Amer. J. of Pharm. Ed.*, 51, 275-279 (1987).

49. **Sakr, A.** and Sidhom, M., "Direct Compression of Diuretic Tablets: 2. Effectiveness of Ac-Di-Sol in Directly Compressed Hydrochlorothiazide Tablets", *Pharm. Ind.*, 50, 105-107 (1988).
50. Miselnicky, S., Lichtin, L.: **Sakr, A.** and Bronaugh, R., "The Influence of Solubility, Protein Binding and Percutaneous Absorption on Reservoir Formation in Skin", *J. Soc. Cosmet. Chem.*, 39, 169-178 (1988).
51. Coapman, S., **Sakr, A.**, Lichtin, J. and Schiltz, J., "Studies of the Penetration of Native Collagen, Collagen Alpha-chains, and Collagen Cyanogen Bromide Peptides through Hairless Mouse Skin In Vitro", *J. Soc. Cosmet. Chem.*, 39, 275-281 (1988).
52. Collier, S.W., Sheikh, N.M., **Sakr, A.**, Lichtin, L., Steward, R.F., and Bronaugh, R.L., "Maintenance of Skin Viability during In Vitro Percutaneous Absorption/Metabolism Studies", *Toxicol. and Appl. Pharm.*, 99, 522-533 (1989).
53. Turkoglu, M., **Sakr, A.**, Lichtin, J., Buehler, E. and Kruezman, J., "An In Vivo Assessment of the Sun Protection Index", *Cosmet. & Toil.*, 104 (4), 33-38 (1989).
54. Zhou, J., **Sakr, A.**, and Lichtin, L., "A Study of the Content Uniformity of Triclosan in Some Commercial Deodorant Sticks", *Cosmet. and Toil.*, 105 (4), 47-51 (1990).
55. Ruiz, R., **Sakr, A.**, and Sprockel, O.: "A Study on the Manufacture and In Vitro Dissolution of Terbutaline Sulfate Microcapsules", *Drug Dev. & Ind. Pharm.*, 16 (11), 1829-1842 (1990).
56. Buehler, E., Kreuzmann, J., **Sakr, A.** and Gu, X., "Comparable Sensitivity of Hairless and Hartley Strain Guinea Pigs to a Primary Irritant and a Sensitizer", *J. Toxicol. Cut. & Ocular Toxicol.*, 9 (3), 163-168 (1990).
57. Nathan, D., **Sakr, A.**, Lichtin, L. and Bronaugh, R., "In Vitro Skin Absorption and Metabolism of Benzoic Acid, p-Aminobenzoic Acid, and Benzocaine in the Hairless Guinea Pig", *Pharm. Research*, 7, 1147-1151, (1990).
58. Ritschel, W., Turkoglu, M., Lipps, D., Warner, A. and **Sakr, A.**, "In Vitro/In Vivo Evaluation of Hydrochlorothiazide/Triamterene Combination Tablets in Beagle Dogs", *Arzneim.-Forsch. Drug Res.*, 41, 208-211 (1991).
59. Ritschel, W., Kraus, C., Shaaya, A., and **Sakr, A.**, "Pharmacokinetics of Papaverine HCl upon Intravenous Route of Administration in Old and Young Beagle Dogs", *Meth. Find. Exp. Clin. Pharmacol.* 13, 51-55 (1991).
60. Hutter, J., Clarke, M., Just, E., Lichtin, L., and **Sakr, A.**, "Colloid Titration: A Method to Quantify the Adsorption of Cationic Polymers by Bleached Hair", *J. Soc. Cosmet. Chem.*, 42, 87-96 (1991).

61. Zhou, J., Mark, R., Stoudemayer, T., **Sakr, A.**, Lichtin, L., and Gabriel, K., "The Value of Multiple Instrumental and Clinical Methods, Repeated Patch Applications, and Daily Evaluations for Assessing Stratum Corneum Changes Induced by Surfactants", *J. Soc. Cosmet. Chem.*, 42, 105-128 (1991).
62. Ritschel, W.A., Menon, A., and **Sakr, A.**, "Biopharmaceutical Evaluation of Furosemide as a Potential Candidate for a Modified Release Dosage Form", *Meth. Find. Exptl. Clin. Pharmacol.*, 13, 629-636 (1991)
63. Kraus, C., Shaaya, A., Ulmer, J., Hutchings, D., Menon, A., **Sakr, A.** and Ritschel, W.A., "Pharmacokinetics and Bioavailability of Papaverine HCl Following Intravenous, Peroral, Rectal, Vaginal, Topical and Buccal Administration in Beagle Dogs", *Biopharm. Drug Dispos.* 12, 537-546 (1991).
64. Swafford, S.K., Bergmann, W.R., Migliorese, K.G., Lichtin, J.L. and **Sakr, A.**, "Characterization of Swollen Micelles Containing Linoleic Acid in a Micro emulsion System", *J. Soc. Cosmet. Chem.*, 42, 235-247 (1991).
65. Glombitza, B., Sorgenfrey, D. and **Sakr, A.**, "Charakterisierung der Tablettenschmiermittel Lubritab und Compritol im Vergleich zu Magnesiumstearate", *Pharmazie*, 47, 871-872 (1992).
66. Turkoglu, M., and **Sakr, A.**, "Mathematical Modeling and Optimization of a Rotary Fluidized-Bed Coating Process", *Int. J. Pharm.*, 88, 75-87 (1992).
67. Hutter, J., Clarke, M., Just, E., Lichtin, J., and **Sakr, A.**, "The Influence of Nonionic Cellulosic Polymers on the Uptake of Polyquaternium-10 by Bleached Hair", *J. Soc. Cosmet. Chem.*, 43, 229-235 (1992).
68. **Sakr, A.**, Bose, M., and Taulbee, J., "Effect of Accelerated Storage Conditions on the Characteristics of Triamterene/Hydrochlorothiazide Directly Compressed Tablets", *Pharm. Ind.*, 55, 180-186 (1993).
69. Bose, M., **Sakr, A.**, and Warner, A., "Effect of Lubricants on the Characteristics of Triamterene/Hydrochlorothiazide Directly Compressed Tablets", *Pharm. Ind.*, 55, 519-522 (1992).
70. **Sakr, A.**, Bose, M., Menon, A., and Warner, A., "Influence of Mixers on the Characteristics of Triamterene/Hydrochlorothiazide Directly Compressed Tablets", *Pharm. Ind.*, 55, 705-708 (1993).
71. Khattab, I., Lipps, D. and **Sakr, A.**, "Effect of Storage on the Characteristics of Paracetamol (Acetaminophen) Tablets", *Pharmazie*, 48, 754-756 (1993).

72. Khattab, I., Menon, A., and **Sakr, A.**, "Effect of Mode of Incorporation of Disintegrants on the Characteristics of Fluid-Bed Wet-Granulated Tablets", *J. Pharm. Pharmacol.*, 45, 687-691 (1993).
73. **Sakr, A.**, Bose, M., and Menon, A., "Comparative Effectiveness of Super Disintegrants on the Characteristics of Directly Compressed Triamterene/Hydrochlorothiazide Tablets", *Pharm. Ind.*, 55, 953-957 (1993).
74. Khattab, I., Menon, A., and **Sakr, A.**, "A Study of the Effect of Disintegrant Distribution Ratio on Tablet Characteristics Using a Central Composite Design", *Eur. J. Pharm. Biopharm.*, 39, 260-263 (1993).
75. Wambolt, E., McKnight, C., Turkoglu, M. and **Sakr, A.**, "Comparison of Two Microcrystalline Cellulose brands for the Direct Compression of Hydrochlorothiazide Tablets", *Pharm. Ind.*, 55, 1046-1051 (1993).
76. Kelm, G., and **Sakr, A.**, "Preliminary Preformulation Investigation of Tebufelone: A Novel Non-Steroidal anti-inflammatory Drug", *Drug Dev. Ind. Pharm.*, 19, 809-826 (1993).
77. Hutchings, D., Nicklasson, M. and **Sakr, A.**, "An Evaluation of Ethylcellulose-Plasticizer Interactions Using Intrinsic Viscosity and Interaction Constant", *Pharmazie*, 48, 912-914 (1993).
78. Turkoglu, M., Ritschel, W., and **Sakr, A.**, "In-Vivo Evaluation of Fluidized Bed Coated Pellets", *Int. J. Pharm.*, 103, 115-118 (1994).
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174. Habib, W., Takka, S., and Sakr, A., "Effect of Roller Compaction on the Characteristics of Nisin Granules and Corresponding Tablets", the First International Postgraduate Research Symposium on Pharmaceutics, Istanbul, Turkey, July 1998.
175. Takka, S., Turkoglu, M., and **Sakr, A.**, "Pectin/HPMC Drug Delivery System for Colon Targeting: Design and *in vitro* evaluation", AAPS Annual Meeting, San Francisco, November 1998.
176. Rezaei, H., Murray, M., and **Sakr, A.**, "A Study of the Disintegrant Distribution and Robustness of an Optimized Roller Compacted Acetaminophen Formulation", AAPS Annual Meeting, San Francisco, November 1998.
177. Guirgis, H., Broegmann, B., and **Sakr, A.**, "The Use of Hot Melt Granulation

- Technology in Modifying Drug Release”, AAPS Annual Meeting, San Francisco, November 1998.
178. Dobrozsi, D.J., Smith, R.L., and **Sakr, A.**, “Effect of Physicochemical Factors on Sucralfate – Mucin Rheologic Synergism”, AAPS Annual Meeting, San Francisco, November 1998.
  179. Kornchankul, W., Parikh, N.H., and **Sakr, A.**, “Effect of Binder Concentration and Impeller Speed on Wet Granulation Kinetics” AAPS Annual Meeting, San Francisco, November 1998.
  180. Khedr, A., **Sakr, A.**, “Stability-Indicating High Performance Liquid Chromatographic Assay of Buspirone HCl”, 26<sup>th</sup> Egyptian Pharmaceutical Conference, Cairo, December 1998.
  181. Habib, W., **Sakr, A.**, “Validation and Optimization of Roller Compaction and Mixing Processes”, 26<sup>th</sup> Egyptian Pharmaceutical Conference, Cairo, December, 1999
  182. Guirgis, H., Broegmann, B, and **Sakr, A.**,” Evaluation of Microcrystalline Cellulose as A Channeling Agent in Wax Matrix Tablets”, World Congress of Pharmacy and Pharmaceutical Sciences, Barcelona, July 1999.
  183. Kornchankul, W., Parikh, N., and **Sakr, A.**, “Torque as a tool to control and optimize wet granulation in an instrumented high shear mixer“, AAPS Annual Meeting, New Orleans, November 1999.
  184. Kornchankul, W., Hamed, E, and **Sakr, A.**, “Effect of Drug Proportion and Mixing Time on the content uniformity of a low dose drug in high shear mixer”, AAPS Annual Meeting, New Orleans, November, 1999.
  185. Laohavichien, A., Olin, B., and **Sakr, A.**, “Binder and disintegrant interactions in fluidized bed produced tablet characteristics”, AAPS Annual Meeting, New Orleans, November 1999.
  186. Rezaei, H., and **Sakr, A.**, “Evaluation of the Binding Efficacy of Polyethylene Glycols”, AAPS Annual Meeting, New Orleans, November 1999.
  187. Alkhatib, Laohavichien, A., and **Sakr, A.**, “Effect of Storage on the characteristics of Fluid Bed Granulated Tablets”, *ibid*, 1999.
  188. Allinson, J., and **Sakr, A.**, “The effect of packaging on the stability of a moisture sensitive compound in a tablet form”, *ibid*, 1999.

189. Cammarn, S., and **Sakr, A.**, “Predicting Dissolution Via hydrodynamics”, *ibid*, 1999.
190. Takka, S., Rajbhandari, S, and **Sakr, A.**, “Development of pH independent extended release propranolol HCl Tablets: A Preliminary Report”, 27<sup>th</sup> International Symposium on Controlled Release of Bioactive Materials, Paris, July 2000.
191. Guirgis, H., Rajbhandari, S., Broegmann, B., and **Sakr, A.**, “The effect of Microcrystalline Cellulose on the Release Rate of Tablets manufactured by Hot Melt Technology”, *ibid*. 2000.
192. Draganoiu, E. S., Andheria, M. A., and **Sakr, A.**,”A Preliminary Evaluation of a New Polyvinyl Acetate and Povidone-based Matrix Sustained Release Excipient for Solid Oral Dosage Forms”, AAPS Annual Meeting, Indianapolis, October 2000.
193. Harris, V. L., and **Sakr, A.**,”The Effect of Granulation Technique and Binder Type on the Characteristics of Calcium Carbonate Tablets, *ibid*.
194. Rezaei, H., and **Sakr, A.**,”Effect of Molecular Weight of Polyethylene Glycol Binders on Acetaminophen Tablets Manufactured using Roller Compaction, *ibid*.
195. Hamed, E., and **Sakr, A.**,”Application of Response Surface Methodology and Multiple Response Optimization to Design Extended Release Formulation”, 27th Egyptian International Pharmaceutical Conference, Cairo, January 2001.
196. Weltrowski, I., and **Sakr, A.**,”Drug Development: NDA/ANDA”, *ibid*.
197. Menendez, J., and **Sakr, A.**,” Application of Response Surface Methodology in the Optimization of Manufacturing of Diclofenac Pellets”, Pharmaceutical Congress of the Americas: Orlando, March, 2001
198. Hamed, E, and **Sakr, A.**,” Design and Optimization of Sustained Release Formulation for Bumetanide: A Preliminary Report”, *ibid*.
199. Cammarn, S., and **Sakr, A.**, “An Industrial/Academic Collaboration in Pharmaceutical Distance Learning”, *ibid*.
200. Draganoiu, E, and **Sakr, A.**,”Kollidon SR: A Novel pH Independent Sustaining Release Excipient”, 10th Panhellenic Pharmaceutical Congress, Athens, April 2001.



201. Draganoiu, E. and **Sakr, A.**, "Development and in Vitro Evaluation of Buspirone Extended Release Tablets", British Pharmaceutical Conference, Glasgow, Scotland, September 2001.
202. Cammarn, S., and **Sakr, A.**, "Predicting Dissolution via Hydrodynamics: Salsalate Tablets in Flow through Cell Dissolution", AAPS Annual Meeting and Exposition, Denver, October 2001.
203. Schulze Nahrup, J. and **Sakr, A.**, "In-Vitro Digestion: A Reliable means for Enteric Coating Testing", *ibid.*
204. Takka, S., and **Sakr, A.**, "Effect of Propranolol HCl: Anionic Polymer Binding Interactions on the In Vitro Release at Various PHS, *ibid.*
205. Hamed, E. and **Sakr, A.**, "Effect of Curing Conditions and Plasticization on the Release of Bumetanide from Pellets Coated with Methacrylate Ester Copolymer", *ibid.*
206. Draganoiu, e., and **Sakr, A.**, "Effect of Kollidon SR on the Release Rate of Buspirone Tablets", *ibid.*
207. Rezaei, H, and **Sakr, A.**, "Effect of Molecular Weight of Polyethylene Glycol Binders on Acetaminophen Tablets: High-Shear Wet Granulation", *ibid.*
208. Hamed, E., and **Sakr, A.**, "Multiple Response Optimization Technique for the Design of Extended Release Formulations", 4<sup>th</sup> World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Florence, April 2002.
209. Patel, H., Stalcup, A. and **Sakr, A.**, "The Effect of Diluents on him Stability of Levothyroxine Sodium Tablets", AAPS Annual Meeting and Exposition, Toronto, November 2002.
210. **Sakr, A.** and Draganoiu, E., "Development of Once-A-Day Propranolol HCl Tablets", *ibid.*, November 2002.
211. Schulze Nahrup, J., GAO, Z., Mark, J. and **Sakr, A.**, "Effect of Cross linking on Film-Coating Characteristics of poly (dimethylsiloxane): A Preliminary Report, *ibid.* November 2002.
212. **Sakr, A.**, and Alkhatib, H., "Optimization of the Use of Blends of Methacrylic Acid Esters Copolymers as Controlled Release Coatings using response Surface Methodology", *ibid.*, 2002.

213. **Sakr, A.**, Gerson, M., Millard, R. and Hamed, E., “An in Vivo Study of the Efficacy of Extended Release Bumetanide Formulation”, *ibid*, 2002.
214. **Sakr, A.**, and Alkhatib, H., “Modeling of the Effect of Triethyl Citrate and Curing on drug Release from Film Coated Tablets”, *ibid*, November 2002.
215. Menendez, J. and **Sakr, A.**, “Application of Rotary Fluid-Bed Spray Granulator Technology for the Manufacture of Controlled-Release Pellets”, *ibid*, 2002.
216. Tillotson, J. and **Sakr, A.**, “Relationship between Dental Caries Fluoride Therapy and Delivery Systems”, International Egyptian Pharmaceutical Society 28th Conference of Pharmaceutical Sciences, Cairo, December 2002.
217. Schulze Nahrup, J. and **Sakr, A.**, “Cross Linked poly (dimethylsiloxane): A Novel Polymer to control Drug Release, *ibid*, December 2002.
218. **Sakr, A.**, and Draganoiu, E., “Development of Once-A-day Propranolol Extended Release Tablets”, *ibid*, December 2002.
219. **Sakr, A.** and **Hamed, E.**, “: Application and Evaluation of Extended Release Technology to Loop Diuretics”, *ibid*, December 2002
220. **Sakr, A.**, and Patel, H., “Stability of levothyroxine Sodium Tablets: Regulatory Aspects”, *ibid*, December 2002.
221. **Sakr, A.**, and Draganoiu, E., “Development of Once-A-Day Propranolol HCl Tablets”, accepted for presentation to the 6<sup>th</sup> Annual Symposium of the Canadian Society for Pharmaceutical Sciences, Montreal, May 2003.
222. Alkhatib, H., Bharaj, S., and **Sakr, A.**, “Application of experimental Centroid Mixture Design for the Development of Extended Release Dextromethorphan, *ibid*, May 2003.
223. Tillotson, J. and **Sakr, A.**, “Study of the effect of Polyvinyl Acetate-Polyvinylpyrrolidone and Filler Excipients on the Release of Bumetanide from Extended Release Matrix Tablets”, *ibid*, May 2003.
224. Takka, S., Goldberg, A. and **Sakr, A.**, “Effect of Hydroxypropylmethyl Cellulose and Methacrylic Acid Copolymer Blends on the Release of Buspirone HCl”, accepted for presentation to the 30th Annual Meeting of the Controlled Release Society, Glasgow, July 2003.

225. **Sakr, A.**, and Tillotson, J., “Application of Multiple-Response Optimization to Fluoride Release from an Extended-Release Matrix Tablet, *ibid*, July 2003.
226. Hausman, D, Cambron, R and **Sakr, A.**,” Application of Raman as a Process Analytical Technology Tool for Fluid Bed Drying”, Presented at the AAPS Annual Meeting and Exposition, Salt Lake City, October 2003.
227. Tillotson, J. and **Sakr, A.**,” Development and in-vitro Evaluation of an Extended Release Matrix Bumetanide Tablet”, *ibid*, October 2003.
228. Schulze Nahrup, J., Gao, Z., Mark, J., and **Sakr, A.**,” The effect of Channeling Agents on Drug Release from Cross linked Poly (dimethylsiloxane) Coatings, *ibid*, October 2003.
229. AlKhatib, H., and **Sakr, A.**,” Application of the Gompertz Exponential Growth and Korsmeyer-Peppas Equations in the Modeling of Drug of Drug Release from Controlled Release Tablets”, *ibid*, October 2003.
230. AlKhatib, H., Bharaj, S., and **Sakr, A.**,” Application of Experimental Centroid Mixture Design for the Optimization of Blends of Polyvinyl Pyrrolidone-Polyvinyl Acetate and Other Excipients in Extended Release Dextromethorphan HBr Matrix Tablets”, *ibid*, October, 2003.
231. Patel, H., and **Sakr, A.**,” The Effect of Formulations and Processing Variables on The Stability of Levothyroxine Sodium Tablets”, *ibid*, October 2003.
232. Takka, S., Bharaj, S., and **Sakr, A.**,” Development of an Extended Release Dextromethorphan Tablet”, *ibid*, October 2003.
233. Draganoiu, E, and **Sakr, A.**, “Formulation and Bioavailability of Propranolol Extended Release matrix Tablets”, *ibid*, October 2003.
234. Owens, T. and **Sakr, A.**,” Application of Experimental Centroid Mixture Design for the Development of Extended Release Sodium Fluoride Tablets”, *ibid*, October 2003.
235. **Sakr, A.**, and Tillotson, J,” Effect of extended-release polymer concentration and pH and solubility modifiers on the release of a weakly acid drug from an extended-release matrix tablet”, AAPS Annual Meeting and Exposition, Baltimore, November, 2004.
236. Bharaj, S., Takka, S., and **Sakr, A.**, “Development of an Extended Release

Dextromethorphan Tablet: in Vivo evaluation”, *ibid*, 2004.

237. Owens, T., Dansereau, R., and **Sakr, A.**, “Development and Evaluation of Extended Release Sodium Fluoride Tablets using Centroid Mixture Design”, *ibid*, 2004.
238. Hausman, D., Cambron, R. and **Sakr, A.**, “Application of Raman as a Process Analytical Technology Tool for low dose Blend Uniformity”, *ibid*, 2004.
239. Hausman, D. and **Sakr, A.**, “PAT Applications of Raman Spectroscopy in Pharmaceutical Development”, AAPS Annual Meeting and Exhibition, Nashville, November, 2005.
240. Bharaj, S., and **Sakr, A.**, “Development of an Extended Release Dextromethorphan Tablet”, *ibid*, November, 2005.
241. **Sakr, A.**, and Hausman, D, “What Benefits does Process Analytical Technology (PAT) bring to the Design and Assurance of Product Quality?” Pharmaceutical Sciences World Congress, Amsterdam, April 2007.
242. **Sakr, A.** and Bharaj, S.,” In-Vitro-In Vivo Evaluation of Dextromethorphan Extended Release Tablets,” Pharmaceutical Sciences World Congress, Amsterdam, April 2007.
243. **Sakr, A.**, ET. Al., “Effect of Kollidon SR on the Release of Albuterol Sulphate from Matrix Tablets”, FIP 38<sup>th</sup> International Congress, Istanbul, September 2009.
244. **Sakr, A.**, ET. Al., “A Comparative Study of Marketed Enteric Coated Pantoprazole Sodium Sesquihydrate Products”, *ibid*, 2009.
245. **Sakr, A.**, ET. Al., ”Effect of Carbopol on the Release of Dextromethorphan Hydrobromide from Extended Release Matrix Tablets”, *ibid.*, 2009
246. **Sakr, A.**, ET. Al., FACTORS AFFECTING CONTENT UNIFORMITY OF LOW DOSE DRUGS”: EFFECT OF MIXING, FIP 39<sup>th</sup> International Congress, Lisbon, September 2010.
247. **Sakr, A.**, ET. Al., “Evaluation of the New Gentlewing High Shear Mixer to Achieve Content Uniformity of Ultra Low Dose Tablets”, AAPS Conference, Washington, D.C., October 2011.

### INVITED PRESENTATIONS

1. **Sakr, A.**, "Formulation and Bioavailability of Compressed Tablets", the Procter and Gamble Company, Sharon Woods Technical Center, Cincinnati, OH, December 1985.
2. **Sakr, A.**, "The Inter-relationships between Tablet Formulations and Bioavailability of Active Drug Ingredients", U.S. Food and Drug Administration, San Juan, Puerto Rico, March 1986.
3. **Sakr, A.**, "Advanced Tablet Technology", Roche Products Co., Manati, Puerto Rico, March 1986.
4. **Sakr, A.**, "Modern Techniques for the Manufacturing of Oral Solid Dosage Forms", SK&F Lab. Co., Cidra, Puerto Rico, March 1986.
5. **Sakr, A.**, "Graduate Education at the College of Pharmacy, University of Cincinnati", College of Pharmacy, University of Puerto Rico, San Juan, Puerto Rico, March, 1986.
6. **Sakr, A.**, A Three Day Workshop on Tablet Technology, Bristol Alpha Corporation, Barceloneta, Puerto Rico, February, 1987.
7. **Sakr, A.**, "Design and Formulation of Sustained Release Potassium Chloride Tablets", Adria Laboratories, Dublin, Ohio, March 1987.
8. **Sakr, A.**, "Fundamentals of Direct Compression Tableting with Specific Emphasis on How to Tablet Eurand Micro encapsulated Drugs", Eurand America, Dayton, Ohio, June 1987.
9. **Sakr, A.**, "Modern Tablet Manufacturing", CE Presentation, 1987 KPhA Annual Meeting, Ft. Mitchell, Kentucky, June 1987.
10. **Sakr, A.**, "Sustained Release Oral Dosage Forms", Universitaet Klinikum Ulm, Ulm, West Germany, August 1987.
11. **Sakr, A.**, "International Study on the Undergraduate Education in Industrial Pharmacy", Pharmazeutisches Institut, Universitaet Tuebingen, West Germany, August 1987.
12. **Sakr, A.**, "The Educator and New Technologies", 89th Annual Meeting of the American Association of Colleges of Pharmacy, Chicago, July 1988.
13. **Sakr, A.**, "Considerations in the Formulation of Cosmetics", Initiator and Moderator of Scientific Session, Society of Cosmetic Chemists, New York,

December 1988.

14. **Sakr, A.**, "An International Comparison of Industrial Pharmacy Curriculum", FB Pharmazie, Freie Universitaet Berlin, Berlin, August 1989.
15. **Sakr, A.**, "Graduate and Post-Doctoral Research Opportunities at the College of Pharmacy, University of Cincinnati", FB Pharmazie, Freie Universitaet Berlin, Berlin, August 1989.
16. **Sakr, A.**, "Formulation and Manufacturing Factors that Affect Tablet Characteristics", Kabi Pharma, Stockholm, Sweden, August 1989.
17. **Sakr, A.**, "An Overview of Modern Tablet Technology", College of Pharmacy, AL-Azhar University, Cairo, December 1989.
18. **Sakr, A.**, "Undergraduate Education in Industrial Pharmacy: An International Comparison", College of Pharmacy, AL-Azhar University, Cairo, December 1989.
19. **Sakr, A.**, "Graduate Education at the College of Pharmacy, University of Cincinnati", College of Pharmacy, AL-Azhar University, Cairo, December 1989.
20. **Sakr, A.**, Kraus, Ch., and Feuer, A., "Undergraduate Pharmacy Education: International Comparisons and the Commendations", XXI Egyptian Conference of Pharmaceutical Sciences, Cairo, February 1990.
21. Lipps, D., and **Sakr, A.**, "Biodegradable Polymers: New Drug Delivery Systems for Addiction Treatment", XXI Egyptian Conference of Pharmaceutical Sciences, Cairo, February 1990.
22. Hutchings, D., Lipps, D., and **Sakr, A.**, "Fluid-Bed Technology: Theory and Pharmaceutical Applications", XXI Egyptian Conference of Pharmaceutical Sciences, Cairo, February 1990.
23. Hutchings, D., and **Sakr, A.**, "Aqueous Film Coating: The New Trend in Coating Technology", XXI Egyptian Conference of Pharmaceutical Sciences, Cairo, February 1990.
24. **Sakr, A.**, "Recent Developments in Tablet Technology", the Nile Pharmaceutical Company, Cairo, February 1990.
25. **Sakr, A.**, "Problems and Trouble Shooting in Pharmaceutical Manufacturing", PHARCO Pharmaceutical Company, Alexandria, March 1990.

26. **Sakr, A.**, "Modern Tablet Technology", a Three day workshop, Bristol-Myer-Squibb, Mayaguez, March 1990.
27. **Sakr, A.**, "Tablet Formulation and Manufacture", Two Day Course, San Juan, P.R., October 1990.
28. **Sakr, A.**, "Formulation, Preformulation, Manufacturing, and Quality Control and Stability of Compressed Tablets", Six hour invited presentation, Fakulteit Geneeskunde en Farmacie, Vrije Universiteit Brussel, Brussels, Belgium, December 1991.
29. **Sakr, A.**, "Advances in Tablet Technology: Formulation, Manufacture, Coating, Quality Assurance and Bioavailability", A Three Day Intensive Course, Indianapolis, April 1991.
30. **Sakr, A.**, "Advances in Tablet Technology: Formulation, Manufacture, Coating, Quality Assurance and Bioavailability", A Three Day Intensive Course, Durham, N.C., June 1991.
31. **Sakr, A.**, "Sterilization, Manufacturing and Quality Control of Sterile Products (Parenterals), Two Day Workshop, Apotheke Des Universitaets Klinikums, Ulm, Germany, September, 1991.
32. **Sakr, A.**, "Advances in Tablet Technology: Formulation, Manufacture, Coating, Quality Assurance and Bioavailability", A Three Day Intensive Course, San Juan, Puerto Rico, October, 1991.
33. **Sakr, A.**, "Workshop on Tablet Technology", a Three Day Intensive Course, Cairo, Egypt, December 1991.
34. **Sakr, A.**, "Parenterals Technology Workshop", a Two Day Workshop, Cairo, Egypt, December 1991.
35. **Sakr, A.**, "The Art and Science of Tablet Technology", A Two Day Workshop, Alexandria, Egypt, December 1991.
36. **Sakr, A.**, "The Art and Science of Tablet Technology", A Three Day Workshop, Vega Baja, Puerto Rico, March 1992.
37. **Sakr, A.**, "Professor Dr. Graf-Wie ich ihn Kenne und Chatze", University of Tuebingen, Germany, June 1992.
38. **Sakr, A.**, "Parenterals Technology Workshop", a Two Day Workshop, Ulm,

Germany, June 1992.

39. **Sakr, A.**, "Tablet Manufacturing", a Four Day Training Workshop, Bristol-Meyer-Squibb, Evansville, August 1992.
40. **Sakr, A.**, "Computer Optimization of the Pharmaceutical Process", Annual Conference, FDA Department of Health and Human Services, USA, Cincinnati, September 1992.
41. **Sakr, A.**, "Parenterals Technology", a Two Day Workshop, El-Nasr Company, Cairo, December 1992.
42. **Sakr, A.**, "Tablet Technology", a Two Day Workshop, El-Nasr Company, Cairo, December 1992.
43. **Sakr, A.**, "Tablet Manufacturing Technology", a Two-Day Workshop, Alexandria Pharmaceutical and Chemical Company, December 1992.
44. **Sakr, A.**, "Recent Developments in Tablet Technology", College of Pharmacy, University of Marmara, Istanbul, March 1993.
45. **Sakr, A.**, "Computer Optimization in Pharmaceutical Formulations", Drug Manufacturers Association, Istanbul, March 1993.
46. **Sakr, A.**, "Advanced Technologies in Tablet Manufacturing and Quality Control", a Three Day Intensive Course, Lederle, N.Y., April 1993.
47. **Sakr, A.**, "Computer Optimization in Pharmaceutical Technology", Opening Plenary Lecture, First International Middle East Conference on Pharmaceutical Sciences, Ibid, Jordan, May 1993.
48. **Sakr, A.**, "Tablets: Design, Manufacturing, Unit Operations and Quality Control", One Day Workshop, Jordan University of Science and Technology, Ibid, Jordan, May, 1993.
49. **Sakr, A.**, "Parenterals Technology Workshop", A Two Day Workshop, University of Ulm, Ulm, Germany, July, 1993.
50. **Sakr, A.**, "Advances in Tablet Technology", a Three Day Workshop, Lederle, New York, August 1993.
51. **Sakr, A.**, "Pharmaceutical Tablet Technology: Design, Formulation, Etc.", A Three Day Workshop, Technomic, San Juan, September 1993.



52. **Sakr, A.**, "Pharmaceutical Tablet Technology", a Three Day Workshop, Technomic, New Jersey, October 1993.
53. **Sakr, A.**, "Tablet Manufacturing and Quality Control", a Three Day Workshop, Bristol-Myers-Squibb, Evansville, November 1993.
54. **Sakr, A.**, "Recent Advances in Tablet Manufacturing and Quality Control", a Three Day Workshop, Bristol-Myers-Squibb, Mayaguez, December 1993.
55. **Sakr, A.**, "Design, Manufacturing and Quality Control of Tablets", A Three Day Workshop, Searle, Puerto Rico, February 1994.
56. **Sakr, A.**, "Tablet Technology", a Two Day Workshop, Luebeck, Germany, March 1994.
57. **Sakr, A.**, "Manufacturing and Quality Control of Pharmaceutical Dosage Forms", A Three Day Workshop, University of Ulm, Ulm, Germany, July 1994.
58. **Sakr, A.**, "Design, Manufacturing and Quality Control of Tablets", A Three Day Workshop, Chicago, September 1994.
59. Turkoglu, M. and **Sakr, A.**, "Mixing, Granulating, Drying, and Coating Potential of Rotary Fluidized-Bed", Invited Plenary Lecture, First International Meeting on Pharmacy & Pharmaceutical Sciences, Istanbul, September 1994.
60. **Sakr, A.**, "Recent Advances in Tablet Technology", One Day Workshop, Cairo, December 1994.
61. **Sakr, A.**, "Controlled Release Technology", One-Day Workshop, Cairo, December 1994.
62. **Sakr, A.**, "Formulation and Stabilization of Disperse Systems", One Day Workshop, Cairo, December 1994.
63. **Sakr, A.**, and Maddux, A., "Stability in Relation to Internationally Adopted Guidelines with Emphasis on Solid Dosage Forms", an invited symposium presentation to the 24th Egyptian Pharmaceutical Conference, Cairo, December 1994.
64. **Sakr, A.**, "Manufacturing of Pharmaceuticals Workshop", Three Day Workshop, University of Ulm, Germany, July 1995.

65. **Sakr, A.**, "Pharmaceutical Tablet Technology: Design, Formulation, Unit Operations, Manufacturing, Quality Assurance and Bioavailability", Three Day Workshop, Whitehall-Robins, New Jersey, August 1995.
66. **Sakr, A.**, "Pharmaceutical Tablet Technology: Design, Formulation, Unit Operations, Manufacturing, Quality Assurance and Bioavailability", Three Day Workshop, Technomic, Orlando, September 1995.
75. McPhillips, A., He, M., and **Sakr, A.**, "Fluidized bed processing", an invited symposium presentation to the Al-Azhar First International Conference on Recent Advances in Pharmaceutical Technology and Biological Sciences, Cairo, Egypt, December, 1995.
76. Lipps, D. and **Sakr, A.**, "Effect of fluid bed process parameters on granule and tablet characteristics", an invited symposium presentation to the Al-Azhar First International Conference on Recent Advances in Pharmaceutical Technology and Biological Sciences, Cairo, Egypt, December, 1995.
77. McPhillips, A. and **Sakr, A.**, "The influence of fluid-bed processing conditions and curing time on the release of inulin from aqueous based polymer systems", an invited symposium presentation to the Al-Azhar First International Conference on Recent Advances in Pharmaceutical Technology and Biological Sciences, Cairo, Egypt, December, 1995.
78. Turkoglu, M. and **Sakr, A.**, "Potential of rotary Fluidized bed as a wet granulation equipment", an invited symposium presentation to the Al-Azhar First International Conference on Recent Advances in Pharmaceutical Technology and Biological Sciences, Cairo, Egypt, December, 1995.
79. He, M., Turkoglu, M. and **Sakr, A.**, "Drug content uniformity of binary powder blends in the rotary fluid-bed granulator", an invited symposium presentation to the Al-Azhar First International Conference on Recent Advances in Pharmaceutical Technology and Biological Sciences, Cairo, Egypt, December, 1995.
80. **Sakr, A.**, Co-presented a Workshop on Clinical Pharmacy (Leipzig), July 1996.
81. **Sakr, A.**, an Invited Presentation: Leipziger Symposium, July 1996.
82. **Sakr, A.**, Main Instructor, FDA Drug Course, August 5-16, 1996, NJ.
83. **Sakr, A.**, Instructor: Workshop on Tablet Technology, Orlando, September 1996.

84. **Sakr, A.:** "Role of Egyptian Scientist", Egyptian Pharmaceutical Association Meeting, Invited Plenary lecture, Cairo, December 1996.
85. **Sakr, A.,** Instructor "Workshop on Pharmaceutical Manufacturing", Toronto, January 1997.
86. **Sakr, A.,** "An Overview on Modified Release Technologies", Mundipharma, Limburg, March 1997.
87. **Sakr, A.,** "Workshop of Technology of Manufacturing of Pharmaceuticals according to cGMP", University of Ulm, March 1997.
88. **Sakr, A.,** "Workshop on Tablet Technology", San Juan, May 1997.
89. **Sakr, A.,** and Guirgis, H., "Modified Release Technologies" Carbopol Symposium, Tokyo, Japan, November 1997.
90. **Sakr, A.,** and Uraizee, S., "Development and Evaluation of a Mucoadhesive Delivery System", Carbopol Symposium, Tokyo, Japan, November 1997.
91. Habib, W., and **Sakr, A.,** A Colonic Delivery System for the Antimicrobial Agent Nisin", Presented at University of Leuven, College of Pharmacy, Belgium, February 1998.
92. Habib, W., and **Sakr, A.,** "A Colonic Drug Delivery Systems: Design and Gamma Scintigraphy Evaluation of a Novel Antibacterial Agent", the First International Postgraduate Research Symposium on Pharmaceutics, Istanbul, Turkey, July 1998.
93. **Sakr, A.,** Habib, W., "A Colonic Delivery Systems: A Novel Approach for Unique drugs", Invited Plenary Opening Lecture for the 26<sup>th</sup> Egyptian Pharmaceutical Conference, December 1999.
94. **Sakr, A.,** "Workshop on the Manufacturing of Pharmaceuticals according to cGMP", University of Ulm, Germany, July 1999.
95. **Sakr, A.,** "Pharmaceutical Tablet Technology: Design, Formulation, Unit Operations, Manufacturing, Quality Assurance and Bioavailability", only instructor for a three day workshop, Mova Pharmaceutical Co., San Juan, P.R. January 2000.
96. **Sakr, A.,** and Hamed, E., "Introduction to Fluid Bed Technology", Assiut Univeristy 2<sup>nd</sup> Pharmaceutical Sciences Conference, Assiut, Egypt, March

2000.

97. **Sakr, A.**, and Turkoglu, M., "Fluid Bed Processing: Design, Mathematical Modeling and Optimization", *ibid.* March 2000
98. **Sakr, A.**, and Habib, W., "Application of Wurster Fluid Bed Technology for Targeting Drug Delivery", *ibid.* March 2000.
99. **Sakr, A.**, "Graduation Education at the University of Cincinnati", *ibid.* 2000.
100. **Sakr, A.**, "Targeted Drug Delivery", University of Iasi, Romania, June 2000.
101. **Sakr, A.**, "Pharmaceutical Tablet Technology Workshop", Iasi, Romania, June 2000.
102. **Sakr, A.**, "Application of Wurster Fluid Bed Technology For Targeting Drug Delivery", Fifth Annual Meeting of the Association of Colleges of Pharmacy in the Arab World, Amman, October 2001.
103. **Sakr, A.**, "Advances in Drug Development and Delivery Systems", National Organization of Drug Control and Research Conference, Cairo, March 2002.
104. **Sakr, A.** "Development and Evaluation of Extended Release Solid Dosage Forms, *ibid.* Cairo, March 2002.
105. **Sakr, A.**, "Solid Formulations", International Symposium on Scientific and Regulatory Aspects of Dissolution and Bioequivalence, Athens, April 2002.
106. **Sakr, A.**, "Chairman, Symposium on New Drug Delivery Systems", 28<sup>th</sup> Egyptian International Pharmaceutical Conference, Cairo, December 2002.
107. **Sakr, A.** and Takka, S., "Significance of in vivo/in vitro Correlations in Drug Development", Al Azhar International Conference for Pharmaceutical Sciences, Cairo, December 2003.
108. **Sakr, A.** and Al Khatib, H., "Optimization of Controlled Release Film Coatings", *ibid.* Cairo, December 2003.
109. **Sakr, A.** and Hamed, E., "Applications of Fluid bed Technology in the Development of Modified Release Dosage Forms", *ibid.* Cairo, December 2003.
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113. **Sakr, A.**, “Development of a Successful CR dosage form”, invited symposium presentation, 65<sup>th</sup> International, Congress of FIP, Cairo, September, 2005.
114. **Sakr, A.**, “Pharmaceutical Tablet Technology”, Three Day Workshop, San Juan, January, 2006.
115. **Sakr, A.**, “Pharmacy Education in the 21<sup>st</sup> Century”, University of Assiut fifth international conference, Assiut, Egypt, March 2006.
116. **Sakr, A.**, “Extended Release Technology”, University of Assiut fifth international conference, March, 2006.
117. **Sakr, A.**,” Workshop on Pharmaceutical Tablet Technology”, Three Day Workshop, St. Charles, April 2006.
118. **Sakr, A.**,” INDUSTRIAL PHARMACEUTICAL TECHNOLOGY I”, Three Gr. Cr. Graduate Course, University of Sao Paulo, Brazil, June-July, 2006.
119. **Sakr, A.**, “Advances in Tableting, Process Analytical and Controlled-release Technology”, Co-Chairman and speaker, FIP-INDUSTRIAL PHARMACY WORKSHOP, Sao Paulo, Brazil, August, 2006.
120. **Sakr, A.**, “Pharmacy Profession: Challenges and Opportunities”, 30<sup>th</sup> International Conference on Pharmaceutical Sciences, Cairo, Egypt, December 2006.
121. **Sakr, A.**, “Drug Targeting and New Drug Delivery Systems”, Symposium Chair and Speaker, 30<sup>th</sup> International Conference on Pharmaceutical Sciences, Cairo, Egypt, December, 2006.
122. **Sakr, A.**, “Matrix Systems for Oral Extended Release Products”, China International Pharmaceutical Technologies Conference 2007, Shanghai, China, May 2007.

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124. **Sakr, A.**, “Colonic Targeting”, 3<sup>rd</sup> International Pharmaceutical Symposium- Novel Drug Delivery Systems”, Shanghai, October, 2007
125. **Sakr, A.**,”Workshop on Advances in New Drug Delivery Systems”, Organizer and presenter, Damascus, December 9-12, 2007.
126. **Sakr, A.**, “Pharmacy Education in the USA”, Future University, Cairo, December 2007
127. **Sakr, A.**, “Advances and New Trend in Tablet Technology”, King Saud University, Riyadh, February, 2008.
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133. **Sakr, A.**, “Extended Release Technologies”, National Research Center, Cairo, December, 2009.
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135. **Sakr, A.**, “Tablet Manufacturing Technologies, Quality Assurance and Quality Control”, Cairo, January 2010.
136. **Sakr, A.**, “Pharmacy Education in the 21<sup>st</sup> Century”, Assiut University 7<sup>th</sup> International Conference, Assiut, March, 2010.
137. **Sakr, A.**,”PHARMACEUTICAL MANUFACTURING FACTS AND OVERVIEW”, King Abdul Aziz City of Science & Technology, Riyadh,

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139. **Sakr, A.**,”Tablets & Capsules Manufacturing, QC/QA Challenges”, Riyadh, Saudi Arabia, January 16-18, 2011.
140. **Sakr, A.**, “ Granulation-From Powder to Tablet”, Oystar Hüttlin, Schopfheim, Germany, June 2011.
141. **Sakr, A.**,”Academic/Industrial Partnerships”, International Federation of Pharmacy Conference, Hyderabad, September 2011.
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143. **Sakr, A.**, “Advances and New Trends In Tablet Technology”, American Association of Pharmaceutical Scientists Conference, Washington, D.C., October, 2011.