

CURRICULUM VITAE

NAME : Magda W. Samaha, Ph.D.
ADDRESS : Department of Industrial Pharmacy,
Faculty of Pharmacy, University of
Alexandria, Alexandria, Egypt.

PERSONAL DATA :

Place of Birth : Alexandria
Date of Birth : October 23, 1947
Marital Status : Married

EDUCATION :

1969 : B.S. in Pharmacy, Faculty of Pharmacy,
University of Alexandria

1973 : M.Sc. in Pharmacy, Faculty of Pharmacy,
University of Alexandria (Major Professor
: Dr. H. El-SHibini).
Three courses for M.Sc. : Qualified Math.,
Instrumental Analysis, and Physical
Chemistry.

1974-1979 : Graduate Student, School of Pharmacy,
University of Wisconsin, Madison, WI,
USA.

1979 : Ph.D. in Pharmacy, School of Pharmacy,
University of Wisconsin, Madison, WI,
USA. Major: Pharmaceutics (Major
Professor: Dr. Gordon L. Amidon). Minor:
Physical chemistry (Minor Professor: Dr.
Worth E. Vaughan).

- MASTERS THESIS** : The Effect of Adjuvants on the Physico-chemical Properties of Certain Drugs in Different Pharmaceutical Preparations.
- Ph.D. THESIS** : A Free Energy Partitioning Analysis of Solubility and Partition Coefficient Data.
- POSITION HELD** :
- 2006-2008** : Professor and Head of Industrial Pharmacy Dept., Faculty of Pharmacy, University of Alexandria, Egypt.
- 1992-2006** : Professor, Department of Industrial Pharmacy, Faculty of Pharmacy, University of Alexandria, Alexandria, Egypt.
- 1986-1992** : Associate Professor, Department of Industrial Pharmacy, Faculty of Pharmacy, University of Alexandria, Alexandria, Egypt.
- 1981-1986** : Lecturer, Department of Industrial Pharmacy, Faculty of Pharmacy, University of Alexandria, Alexandria, Egypt.
- 1979-1981** : Assistant Lecturer, Department of Industrial Pharmacy, Faculty of Pharmacy, University of Alexandria, Alexandria, Egypt.
- 1974-1979** : Graduate Researcher with Prof. Gordon L. Amidon, School of Pharmacy, University of Wisconsin, Madison, WI., USA.
- 1973-1974** : Assistant Lecturer, Department of

Industrial Pharmacy, Faculty of Pharmacy,
University of Alexandria, Alexandria,
Egypt.

1969-1973 : Teaching Assistant, Department of
Industrial Pharmacy, Faculty of Pharmacy,
University of Alexandria, Alexandria,
Egypt.

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIP

: Wisconsin Alumni Association
: Egyptian Pharmaceutical Association

EXPERIENCE

1984 : Associate Scientist, Laboratory of
Professor J.B.Mielk, Department of
Pharmaceutics, University of Hamburg,
Germany.

1987 : Visiting Professor, Laboratory of
Professor G. Zografi, Department of
Pharmaceutics, School of Pharmacy,
University of Wisconsin, Madison, WI,
USA.

1991 : Visiting Scientist, Glycomed Inc. 860
Atlantic Av., Alameda, CA, USA.

2000 : Visiting Professor, Department
Pharmaceutics,
School of Pharmacy, University

Michigan, Ann
Arbor, MI, USA.

2001 : Visiting Professor, Laboratory of
Professor Joseph Robinson, Department
of Pharmaceutics, School of Pharmacy
University of Wisconsin, Madison, WI,
USA.

PUBLICATIONS:

- 1. Magda W. Samaha**, Mohammed M. Mehanna, Adel M. Motawaa, "Quantitation of Transdermal Tadalafil in Human Skin by Reversed-Phase High-Performance Liquid Chromatography". Journal of AOAC INTERNATIONAL, 2012; 95(4) :1064 -1068.
- 2. Magda W. Samaha** , Mohammed M. Mehanna, Adel M. Motawaa, "Tadalafil Inclusion in Microporous Silica as Effective Dissolution Enhancer: Optimization of Loading Procedure and Molecular State Characterization ". Journal of Pharmaceutical Science, 2011; 100 (5):1805-1818
- 3. Magda W. Samaha**, Mohammed M. Mehanna, Adel M. Motawaa, "Pharmaceutical Particulate Carriers: Lipid - Based Carriers" National Journal of Physiology, Pharmacy & Pharmacology, 2012 ; Vol 2(1): 10-22
- 4. Magda W. Samaha** , Mohammed M. Mehanna, Adel M. Motawaa, "Pharmaceutical Particulate Carriers: Polymer - Based Carriers" Journal of Novel Drug Delivery Technology, 2011;1: 63-79
- 5. Magda W. Samaha**, Doaa Ragab, Sohrab Rohani, Ferial M. El-Khawas, Hoda A. El-Maradny, " Surface Modified Fe₃O₄ Nanoparticles for Pulmonary Absorption and Magnetic Targeting of Progesterone". Accepted for publication in J. Pharm. Sci.
- 6. Magda W. Samaha**, Doaa Ragab, Sohrab Rohani, Ferial M. El-Khawas, Hoda A. El-Maradny, " Crystallization of Progesterone for Pulmonary Drug Delivery". J. Pharm. Sci., 99(3), 1123-1137, **2010**.

- 7. Magda W. Samaha**, Mohammed M. Mehanna, Adel M. Motawaa,
"In Sight on Tadalafil - Block Copolymer Binary Solid Dispersion: Mechanistic Investigation of Dissolution Enhancement". *Inter. J. Pharm.*, 402, 78–88, **2010**.
- 8. Magda W. Samaha**, Mohammed M. Mehanna, Adel M. Motawaa.
"Development of tadalafil loaded penetosomes -novel nanovesicular carriers: characterization and delivery properties", poster, The 2nd Innovation in drug delivery conference: From preformulation to development through innovative evaluation process, 3-6 October, 2010 , Aix en Provence, France.
- 9. Magda W. Samaha**, Doaa Ragab, Sohrab Rohani, Ferial M. El-Khawas, Hoda A. El-Maradny, " Surface Modified Magnetic Nanoparticles for Targeted drug delivery". poster, The 2nd Innovation in drug delivery conference: From preformulation to development through innovative evaluation process, 3-6 October , 2010, Aix en Provence, France.
- 10. Magda W. Samaha**, Mohammed M. Mehanna, Adel M. Motawaa.
"Penetosomes mediated transdermal delivery of tadalafil: novel approach to treat erectile dysfunction", poster, Industrial Pharmacy and Pharmaceutics Section, International Pharmacy Conference, Beirut, Lebanon, **2010**.
- 11. Magda W. Samaha**, Mohammed M. Mehanna, Hoda A. Elmaradny,
"Mucoadhesive Liposomes as Ocular Delivery System: Physical, Microbiological and In-Vivo Assessment", *Drug Development and Industrial pharmacy*, **2010**; 36(1): 108–118

- 12. Magda W. Samaha**, Mohammed M. Mehanna, Hoda A. Elmaradny, "Ciprofloxacin Reverse Phase Evaporation Liposomes as Vesicular Reservoirs for Ocular Delivery: Formulation, Optimization and In-Vitro Characterization", Drug Development and Industrial pharmacy, **2009**; 35(5): 583-593
- 13. Magda W. Samaha**, Hoda A. El- Maradny ,Doaa M. Ragab and Ferial M. El- Khawas. "Development and characterization of inhaled formulations for systemic drug delivery" Drug. Deliv. Tech. **2009**, 9, p. 32- 39.
- 14. Mohammed M. Mehanna**, Hoda A. Elmaradny, **Magda W. Samaha**." Thermosensitive Liposomal Gel as an Ocular Delivery System: Physical, microbiological and in vivo assessments ".Pharm. Ind., 2012; 74, 681-689.
- 15. Doaa Ragab**, Sohrab Rohani, Ferial elkhawas, Hoda Elmaradny, **Magda Samaha** “ Multifunctional Magnetic Nanoaggregates For cancer Therapy Via Pulmonary Drug Delivery” . Paper presented at the 3rd conference on “Innovation In Drug Delivery : Advances in local drug Delivery” . 22-25 September, 2013, Pisa, Italy, paper No 49,page 100.
- 16. Mohammed M. Mehanna**, Adel M. Motawaa, **Magda W. Samaha**. “Nanovesicular Carrier-Mediated Transdermal Delivery of Tadalafil : I-Formulation and Physicochemical Characterization”. Drug Development and Industrial Pharmacy, DOI : 10.3109/03639045.2014.900075 .

- 17.** Mohammed M. Mehanna, Adel M. Motawaa, **Magda W. Samaha**. “Nanovesicular Carrier-Mediated Transdermal Delivery of Tadalafil : II-Skin Permeation and Stability Evaluation”. Drug Development and Industrial Pharmacy, Under publication.
- 18.** **Magda W. Samaha**, Ferial M. El-Khawas, Hoda A. El-Maradny, and Doaa M. Ragab. “Comparative study of the effect of using different drying techniques for preparation of inhalable protein dry powders on their aerosolization performance”. Drug Delivery & Technology, 8(4), **2008**.
- 19.** **Magda W. Samaha**, Doaa M. Ragab, Hoda A. El-Maradny and Ferial M. El-Khawas. “Comparative study of inhalable protein dry powders”. Paper presented at the 1st Conference on "Innovation in Drug Delivery from Biomaterials to Devices". Naples, Italy, 30 September to 3 October **2007**.
- 20.** **Magda W. Samaha**, Mohammed M. Mehanna, Hoda A. Elmaradny, "Statistical design for optimization of Reverse phase evaporation liposomes", poster, Industrial Pharmacy and Pharmaceutics Section, First Cairo International Pharmaceutical Conference, Cairo, **2007**.
- 21.** **Magda W. Samaha**, Hoda A. El-Maradny, Doaa M. Ragab and Ferial M. El-Khawas. “Biodegradable block copolymers as inhalable drug-delivery systems”. Alex. J. Pharm. Sci., 20(2), 123-129, **2006**.
- 22.** **Magda W. Samaha**, “Surface chemical aspects of polymers”. Paper presented at the 4th world meeting on Pharmaceutics, Biopharmaceutics,

Parmaceutical Technology, Palazzo del Congressi, Florence, Italy, April 8-11, **2002**

23. Magda W. Samaha and Enas H. Wafqey

Joint Research Project (**1996-1998**) between Industrial Pharmacy Department, Faculty of Pharmacy, University of Alexandria and Amriya Pharm. Ind. (Rhône Poylenc Co.) :

I - Formulation and In-vitro evaluation of Indomethacin suppositories containing different percentage of β -cyclodextrin-Epichlorohydrin polymer.

II - Formulation and In-vitro evaluation of diclofenac sodium suppositories containing different percentage of β -cyclodextrin-Epichlorohydrin polymer.

III - Formulation and In-vitro and In-vivo evaluation of ketoprofen lysinate suppositories.

24. Magda W. Samaha

“Correlations of solubility parameters of pharmaceutical solids with other physical quantities” Journal of the American Pharmaceutical Association, JAPHA, **39**(2), p. 276.

Paper presented at the APHA Meeting, San Antonio, Texas, March 5-9 (**1999**) p. 52.

25. Magda W. Samaha, I.H. Wafaey, M.A. Moustafa and F. El-Khawas.

“Formulation of controlled release diclofenac sodium suppositories using polycarbophil as a bioadhesive polymer”

International Conference of Pharmaceutical Sciences and Technology, Montazah, Alexandria, Egypt; March 22-25, **1995**.

26. Magda W. Samaha, M. El-Khawas and K. El-Khodairy

“In-vivo evaluation of some phenylpropanolamine sustained release preparations in Man” Pharm. Ind., **55**(10), 957-961, **1993**.

27. Magda W. Samaha, M. El-Kawas, K. El-Khodairy.

“Phenylpropanolamine controlled-release tablets- In-vitro availability” Pharm. Ind., **55**(4), 392-395, **1993**.

28. Magda W. Samaha, K. El-Khodairy and V.F. Naggar

“Preparation and physicochemical study of a carbamazepine-gantrez interaction product in solid dispersion” Second Anglo-Egyptian Conf. Pharm. Sci., Alexandria, Egypt, November 9-12, 1991. Pharm. Ind., **56**(1), 66-7, **1994**.

29. Magda W. Samaha

“Effect of porosity on the contact angle of pharmaceutical solids” Alex. J. Pharm., **6**(3), 311-314, **1992**.

30. Magda W. Samaha

“Influence of crystal form on tensile strength and wettability of pharmaceutical compacts”. Alex. J. Pharm., **6**(3), 299-303, **1992**.

31. Magda W. Samaha

“The adsorption of a nonionic surfactant on polystyrene latex” Alex. J. Pharm. Sci., **6**(1), 113-116, **1992**.

32. Magda W. Samaha,

“Wettability and surface characterization of polystyrene latex” Alex. J. Pharm. Sci., **6**(1), 109-112, **1992**.

33. Magda W. Samaha,

“Correlation of polymer advancing and receding contact angles with solubility parameter” S.T.P. Pharma Sciences, **2**, 199-204, **1992**.

34. Magda W. Samaha, Inas H. Wafaey, Mamdouh A. Moustafa and Fereal El-Khawas

“Bioadhesive polymer as a platform for controlled release indomethacin suppository”. Alex. J. Pharm., **6(3)**, 275-279, **1992**.

35. K. El-Khodairy, M. El-Khawas and Magda W. Samaha

“Effect of formulation on the release characteristics of nitrofurantoin tablets prepared with butyl half ester of polymers or polycarbophil” Pharm. Ind., October **1992**.

36. Magda W. Samaha and V.F. Naggar

“Relationship between the solubility parameter and the surface free energy of some solids” Drug Dev. Ind. Pharm., **16**, 1135-1151, **1990**.

37. Magda W. Samaha

“Adsorption studies of Metoclopramide HCl on polycarbophil and preparation of directly compressed zero-order release tablets” Pharm. Ind., **51**, 543-546, **1989**.

38. Magda W. Samaha and V.F. Naggar

“Micellar properties of non-ionic surfactants in relation to their solubility parameters”. Int, J. Pharm., **42**, 1-9, **1988**.

39. N.A. El-Gindy, Magda W. Samaha and H.A. El-Maradny

“Evaluation of binder activities on the physical properties and compression characteristics of granules prepared by two different modes”. Drug Dev. Ind. Pharm., **14**, 977-1005, **1988**.

40. M.A.F. Gadalla, G.M. Ghaly and Magda W. Samaha

“The effect of binary systems composition on the solubility and solubility parameter estimation of Nalidixic and Salicylic acids”

Int. J. Pharm., **38**, 71-78, **1987**.

41. Magda W. Samaha and N.A.F. Gadalla

“Solubilization of carbamazepine by different classes of non-ionic surfactants and a bile salt” Drug Dev. Ind. Pharm., **13** (1), 93-112 **1987**.

42. Magda W. Samaha, N.A. El-Gindy and H.A. El-Maradny

“Diffusion Models for fixed and fluidized bed drying”

Pharm. Ind., **48** (2), 193-196, **1986**.

43. N.A. El-Gindy, **Magda W. Samaha** and H.A. El-Haradny

“The mixing performance of the fluidized-bed for a multicomponent system” Pharm. Ind., **48** (4), 403-407, **1986**.

44. Magda W. Samaha

“A model for simultaneous determination of the rate of dissolution and disintegration of tablets”. Abstracts of the First International Conference of Applied Sciences, Zagazig, Egypt, April **1985**, p. 29.

45. N.A. El-Gindy, **Magda W. Samaha** and H.A. El-Maradny

“Some physical aspects of drying in fluidized and fixed bed dryers”

Egyptian J. Pharm. Sci., 26, 49-55, **1985**.

46. Magda W. Samaha and N.A. El-Gindy

“The effect of film-inducing substances on the characteristics of binary powder mixtures”. Int. J. Pharm., **19**, 63-74, **1984**.

- 47.** N.A. El-Gindy and **Magda W. Samaha**,
“Tensile strength of some pharmaceutical compacts and their relation to surface free energy”. *Int. J. Pharm.*, **13**, 35-46, **1983**.
- 48.** G.L. Amidon, and **Magda W. Samaha**,
“Functional group additivity in solubility estimation”
Paper presented at the basic Pharmaceutics section, APHA Meeting,
Hollywood, Florida, November 12-16, **1978**, p. 76.
- 49.** H. El-Shibini, **Magda W. Samaha**, and N.A. Daabis
“A study of the effect of propylene glycol, polyethylene glycol and urea
on the solubility of Chloramphenicol in polysorbate 80”
Proc. 3 rd. Cong. Arab Pharmacists Union, Baghdad, 1972, Published
1974, p. 665.
- 50.** N.A. Daabis, **Magda W. Samaha**, and H. El-Shibini
“Kinetics of degradation of Chloramphenicol in ternary systems”
Proc. 3 rd. Cong. Arab Pharmacists Union, Baghdad 1972, Published
1974, p. 649.