



Biography

Prof. Raid Alany

School/Department: Pharmacy and Chemistry

Position: Professor Of Pharmaceutics

Professor Raid Alany has over 24 years of international experience in pharmacy education and drug delivery research. His academic journey spans three continents, namely, Asia, Oceania and Europe. He received his PhD in Pharmaceutics from the University of Otago, Dunedin New Zealand in 2001; appointed as a Lecturer at the School of Pharmacy, The University of Auckland, Auckland, New Zealand, in 2001 and was responsible for establishing the first pharmaceutics curriculum at The University of Auckland. He was promoted to a Senior Lecturer in 2004, appointed as Head of Pharmaceutics in 2007, promoted to Senior Lecturer above the bar in February 2009; appointed as Honorary Associate Professor in 2011. He joined Kingston University London as full Professor (Chair) of Pharmaceutics in January 2011 and was appointed as Research Director for the School of Pharmacy and Chemistry in December 2013.

Professor Alany has been registered as a Pharmacist in New Zealand since July 1999 and became a Fellow of the New Zealand College of Pharmacists in 2003. He currently leads a research team comprising a Leverhulme Visiting Fellow, six PhD students and a Sparks Research Fellow working on a range of formulation and drug delivery projects and has supervised to completion 18 Masters by Research and PhD students. Raid is an author on over 200 scientific research publications (papers and

abstracts), a book and seven book chapter; he has attracted over \$NZ 2M (£GBP 1M) in contestable research funding.

Professor Alany acts as a Section Editor for Clinical and Experimental Ophthalmology the official journal of the Royal Australian and New Zealand College of Ophthalmologists; Chief Patron, Drug Development and Therapeutics, a publication of Organization of Pharmaceutical Unity with BioAllied Sciences (OPUBS). He serves on the Editorial Board of the following journals: Pharmaceutical Development and Technology, BioMed Research International, Journal of Drug Delivery Science and Technology, International Journal of Drug Delivery, Current Drug Delivery, Drug Delivery Letters and Current Medical Research and Opinion. He is the Immediate Past President of the New Zealand Chapter of the Controlled Release Society (NZCRS), member of the Scientific Steering Group of the New Zealand National Eye Centre (NZ-NEC), Young Scientist Committee of the Controlled Release Society, past member of the International Pharmaceutical Federation (FIP) and Australasian Pharmaceutical Scientists Association (APSA).

Professor Alany won several awards such as Microscopy New Zealand Young Scientists Award in 1999 The University of Auckland's Vice Chancellor's Early Career Research Excellence Award in 2003, the Controlled Release Society Veterinary Programme co-chair/ chair Distinguished Service Awards in 2008/2009 and the Spark Ideas Challenge, Uniservices Prize and Chiasma Prize in 2011. He consults for human and veterinary pharmaceutical companies in New Zealand and Singapore and is an inventor on several international patents.

Educational and Professional Qualifications

- **2003 - 2003** Fellowship of The New Zealand College of Pharmacists (FNZCP)
- **2003 - present** Registered Pharmacist- Pharmacy Council of New Zealand (RegPharmNZ)
- **1999 - 1999** Membership of the Pharmaceutical Society of New Zealand (MPS)
- **1996 - 2001** Doctor of Philosophy (PhD), University of Otago, Dunedin, New Zealand
- **1990 - 1992** Master of Science (MSc), Baghdad University, Baghdad, Iraq
- **1981 - 1986** Bachelor of Science (BSc) in Pharmacy, Baghdad University, Baghdad, Iraq

Research Interests

1. Ophthalmic Drug Delivery
2. Lipid and Surfactant Based Drug Delivery Systems
3. Delivery of Antisense Oligonucleotides and siRNA
4. In Situ Gelling Systems
5. Veterinary Pharmaceuticals

Research Groups

[Diabetes and Cardiovascular Research Group](#)

[Vision, Cognition and Neuroscience](#)

[Drug Discovery, Delivery and Patient Care](#)

PUBLICATIONS

Book

ABDELKADER, H. *ALANY, R.G. New therapies for diabetic keratopathy- Preformulation, formulation and evaluation of naltrexone hydrochloride niosomes. (LAP) Lambert Academic Publishing / Books on Demand. ISBN 978-3-659-29480-8 , paperback, 332 Pages. (2013).

Book Chapters

1. WEN, J., CHEN, G., *ALANY, R.G. Theories and Concepts of Nano Materials, Nano-and microencapsulation In Hae-Soo Kwak (ed.), Nano-and Microencapsulation for Foods, First Edition, John Wiley and Sons, p. 17-30, 2014
2. *ALANY, R.G., BHATTARAI, S., PRANATHARTHIHARAN, S., DEVARAJAN, P.V. Intramammary Delivery Technologies for Cattle Mastitis Treatment In M.J. Rathbone and A. McDowell (eds.), Long Acting Animal Health Drug Products: Fundamentals and Applications, Advances in Delivery Science and Technology, Springer, © Controlled Release Society 2013. DOI 10.1007/978-1-4614-4439-8_13
3. FLETCHER, J.G., RATHBONE, M.J., *ALANY, R.G. Physicochemical Principles of Controlled Release Veterinary Pharmaceuticals In M.J. Rathbone and A. McDowell (eds.), Long Acting Animal Health Drug

Products: Fundamentals and Applications, Advances in Delivery Science and Technology, Springer, © Controlled Release Society 2013. DOI 10.1007/978-1-4614-4439-8_5

4. AL-KINANI, A.A., CALABRESE, G., VANGALA, A., NAUGHTON, D., *ALANY, R.G. Nanotechnology in Ophthalmic Drug Delivery In Elinana B. Souto (ed.), Patenting Nanomedicines: Legal Aspects, Intellectual Property and Grant Opportunities. Springer, Berlin Heidelberg, Germany. 2012, Part 2, 277-303, DOI: 10.1007/978-3-642-29265-1_9

5. *ALANY, R.G., EL MAGHRABY, G. M. M., KRAUEL-GOELLNER, K., GRAF, A. Microemulsion Systems and Their Potential as Drug Carriers In Monzer Fanun (ed.), Microemulsions: Properties and Applications, Surfactant Science Series by Taylor and Francis / CRC Press, Chapter 9, p. 247-291, Aug. 2008

6. RUPENTHAL, I. D., *ALANY, R.G. Ocular Drug Delivery In Shayne C. Gad (ed.), Pharmaceutical Manufacturing Handbook: Production and Processes, New Jersey, John Wiley and Sons, p. 729-770, 2008

7. *ALANY, R.G., WEN, J.Y. Microemulsions as Vehicles for Drug Delivery In Shayne C. Gad (ed.), Pharmaceutical Manufacturing Handbook: Production and Processes, New Jersey, John Wiley and Sons, p. 771-794, 2008

Research Publications (Peer Reviewed Journals and Periodicals)

1. ABDELKADER, H., *ALANY, R. G., PIERSCIONEK, B. Age-related

cataract and drug therapy: opportunities and challenges for topical antioxidant delivery to the lens. *Journal of Pharmacy and Pharmacology*. Accepted October 2014.

2. RAI, U. D. J. P., YOUNG S. A., THRIMAWITHANA, T. R., ABDELKADER, H., ALANI, W. G. A., PIERSCIONEK, B., *ALANY, R. G. The suprachoroidal pathway: A new drug delivery route to the back of the eye. *Drug Discovery Today*. Accepted, October 2014.

3. BHATTARAI, S. *ALANY, R. G., BUNT, C. R., ABDELKADER, H., RATHBONE, M. J., Design and characterisation of a polyethylene oxide matrix with the potential use as a teat insert for prevention/treatment of bovine mastitis. *The AAPS Journal*. Accepted October 2014. DOI: 10.1208/s12248-014-9678-4

4. MISHARA, G. P. K., P., WIERZBICKIA, I. H., *ALANY, R. G., ALANI, W. G. A. In situ gelling polyvalerolactone-based thermosensitive hydrogel for sustained drug delivery. *European Journal of Pharmaceutics and Biopharmaceutic*. Available online June 2014. DOI: 10.1016/j.ejpb.2014.06.004

5. ABDELKADER, H., ABDALLAH, O., ALANI, A.W.G., *ALANY, R.G. Eutectic, monotectic and immiscibility systems of nimesulide with water soluble carriers: Phase equilibria, solid-state characterization and in vivo pharmacodynamic evaluation. *Journal of Pharmacy and Pharmacology* 66(10) 1439–1450, 2014. DOI: 10.1111/jphp.12277

6. WU, Z., ALANY, R. G., TAWFEEK, N., FALCONER, J., ZHANG, W., HASSAN, I., RUTLAND, M., SVIRSKIS, D. A study of microemulsions as prolonged-release injectables through in-situ phase transition. *Journal of Controlled Release* (R)(1) 188–194, 2014.

7. ABDELKADER, H., ALANI, A.W.G., *ALANY, R.G. Recent advances in non-ionic surfactant vesicles (niosomes): self-assembly, fabrication, characterization, drug delivery applications and limitations. *Drug Delivery* 21(2) 87-100, 2014.

8. FALCONER, J.R. WEN, J.W., ZARGAR-SHOSHTARI, S.Z., CHEN, J.J.J., FARID, M.M., TALLON, S., *ALANY, R.G. Preparation and characterization of progesterone dispersions using supercritical carbon dioxide. *Drug Development and Industrial Pharmacy* 40(4) 458-469, 2014.

9. FALCONER, J.R., WEN, JY., ZARGAR-SHOSHTARI, S., CHEN, J.J., FARID, M., YOUNG, S., ALANY, R.G. Effects of supercritical carbon dioxide processing on optical crystallinity and in vitro release of progesterone and Gelucire 44/14 solid and semi-solid dispersions. *Journal of Drug Delivery Science and Technology* 23 (5) 477-483, 2013.

10. *ALANY, R.G. Adherence, persistence and cost–consequence comparison of bimatoprost topical ocular formulations. (Invited Editorial). *Current Medical Research and Opinion*. Posted online on July 5, 2013. (doi:10.1185/03007995.2013.818968)

11. FALCONER, J.R. WEN, J.W., ZARGAR-SHOSHTARI, S.Z., CHEN, J.J.J., FARID, M.M., EL MAGHRABY G.M, *ALANY, R.G. Evaluation of progesterone permeability from supercritical fluid processed dispersion

systems. *Pharmaceutical Development and Technology*. Posted online on February 25, 2013. (doi:10.3109/10837450.2013.769570)

12. LIU, K.C., GREEN, C., *ALANY, R.G. RUPENTHAL, I.D. Synergistic effect of chemical penetration enhancer and iontophoresis on transappendageal transport of oligodeoxynucleotides. *International Journal of Pharmaceutics* 441(1-2) 687-92, 2013.

13. YUN, D., *ALANY, R.G., WEN, J.W. Development of water-in-oil microemulsions with the potential of prolonged release for oral delivery of L-glutathione. *Pharmaceutical Development and Technology* 18(6) 1424-1429, 2013.

14. FALCONER, J.R., WEN, J-W., ZARGAR-SHOSHTARI, S., CHEN, J.J., FARID, M., CHAN, J., ALANY, R.G. The effects of supercritical carbon dioxide processing on progesterone dispersion systems: a multivariate study. *American Association of Pharmaceutical Science (AAPS) PharmSciTech*. Accepted, July 2012 13(4):1255-65. doi: 10.1208/s12249-012-9850-z .

15. ABDELKADER, H., *ALANY, R.G. Drug delivery systems providing controlled and continuous ocular delivery: Pros and Cons. *Current Drug Delivery* 9(4) 421-430, 2012.

16. ABDELKADER, H., WU, Z., AL-KASSAS, R., *ALANY, R.G. Niosomes and discomes for ocular delivery of naltrexone hydrochloride: Morphological, rheological, spreading properties and photo-protective effects. *International Journal of Pharmaceutics* 433(1-2)142-8, 2012.

17. ABDELKADER, H., WU, Z., AL-KASSAS, R., *ALANY, R.G.
Conjunctival and corneal tolerability assessment of ocular naltrexone niosomes and their ingredients on the hen's egg chorioallantoic membrane and excised bovine cornea models. *International Journal of Pharmaceutics* 432(1-2)1-10, 2012.
18. KUNTWORBE, N., *ALANY, R. G., BRIMBLE, M., AL-KASSAS R.
Isolation and development of an HPLC method for the detection and quantification of cryptolepine and its application in the determination of the total cryptolepine content in the root powder of *Cryptolepis Sanguinolenta*. *Pharmacology and Pharmacy* 3 263-274, 2012.
19. REN, X., SVIRSKIS D., *ALANY, R. G., ZARGAR-SHOSHTARI S., WU Z.
In-situ phase transition from microemulsion to liquid crystal with the potential of prolonged parenteral drug delivery. *International Journal of Pharmaceutics*. 431(1-2)130-7, 2012.
20. ZHOU, Y. Z., *ALANY, R. G., Chuang, V., Wen, J-W. Optimization of PLGA nanoparticles formulation containing L-DOPA by applying the central composite design. *Drug Development and Industrial Pharmacy*. Posted online on May 21, 2012. (doi:10.3109/03639045.2012.681054)
21. ZHOU, Y. Z., *ALANY, R. G., Chuang, V., Wen, J-W. Studies of the rate constant of L-DOPA oxidation and decarboxylation by HPLC. *Chromatographia*. 75 (11-12) 597-606, 2012.
22. KUNTWORBE, N., *ALANY R. G., BRIMBLE, M., AL-KASSAS, R.

Determination of pKa and forced degradation of the indoloquinoline antimalarial compound cryptolepine hydrochloride. *Pharmaceutical Development and Technology*. Posted online on March 22, 2012 (doi:10.3109/10837450.2012.668554)

23. ABDULKARIM, M.F., HEARD, C., *ALANY, R. G. An Overview of recent patents on nanoparticles for drug delivery across the blood brain barrier. *Recent Patents on Nanomedicine* 2 45-51, 2012.

24. THRIMWITHANA, T., RUPENTHAL, I.D., YOUNG, S., *ALANY, R.G. Environment-sensitive polymers for ophthalmic drug delivery. *Journal of Drug Delivery Science and Technology* 22(1) 117-124, 2012.

25. RUPENTHAL, I.D., GREEN, C., *ALANY, R.G. Evaluation of fluorescence resonance energy transfer approaches as a tool to quantify the stability of antisense oligodeoxynucleotides. *Current Pharmaceutical Analysis* 8(1) 20-27, 2012.

26. RUPENTHAL, I.D., *ALANY, R.G., GREEN, C.R. Ion-activated in situ gelling systems for antisense oligodeoxynucleotide delivery to the ocular surface. *Molecular Pharmaceutics* 8(6) 2282-2290, 2011.

27. THRIMWITHANA, T., YOUNG, S., BUNT, C.R., GREEN, C., *ALANY, R.G. In-vitro and In-vivo Evaluation of Carrageenan/Methylcellulose Polymeric Systems for Transscleral Delivery of Macromolecules. *European Journal of Pharmaceutical Sciences* 44(3) 399-409, 2011.

28. AKHALQ, M., GUL MAJID, K., WAHAB, A., ABDELKADER, H.,

*ALANY, R., HUSSAIN, A., KHAN, N.R. Physicochemical characterization and in-vitro evaluation of flubiprofen oral controlled release matrix tablets: Role of ether derivative polymer ethocel African Journal of Pharmacy and Pharmacology 5(7) 862-873, 2011.

29. THRIMWITHANA, T., YOUNG, S., GREEN, C., *ALANY, R.G. Drug Delivery to the Posterior Segment of the Eye: Challenges and Opportunities. Drug Delivery Letters 1 40-44, 2011.

30. CHEN, Y-S., *ALANY, R.G. YOUNG, S., GREEN, C., RUPENTHAL, I.D. In vitro release characteristics and cellular uptake of poly(D,L-lactic-co-glycolic acid) nanoparticles for topical delivery of antisense oligodeoxynucleotides. Drug Delivery 18(7) 493-501, 2011.

31. RUPENTHAL, I.D., GREEN, C., *ALANY, R.G. Comparison of ion-activated in situ gelling systems for ocular drug delivery. Part 2: Precorneal retention and in vivo pharmacodynamic study. International Journal of Pharmaceutics 411(1-2) 78-85, 2011.

32. RUPENTHAL, I.D., GREEN, C., *ALANY, R.G. Comparison of ion-activated in situ gelling systems for ocular drug delivery. Part 1: Physicochemical characterisation and in vitro release. International Journal of Pharmaceutics 411(1-2) 69–77, 2011.

33. ABDELKADER, H., WU, Z., AL-KASSAS, R., BROWN, J.E., *ALANY, R.G. Preformulation characteristics of the opioid growth factor antagonist-naltrexone hydrochloride: Stability and lipophilicity studies. Journal of Drug Delivery Science and Technology 21(2) 157-163, 2011.

34. ABDELKADER, H., KAMAL, A., ISMAIL, S., *ALANY, R.G. Design and characterisation of controlled release niosomes and discomes for naltrexone hydrochloride ocular delivery. *Journal of Pharmaceutical Sciences* 100(5)1833–1846, 2011.
35. BHATTARAI, S., BUNT, C., RATHBONE, M., *ALANY, R. G. Phase behaviour, rheological and mechanical properties of hydrophilic polymer dispersions. *Pharmaceutical Development and Technology* 16(3) 259-268, 2011.
36. ABDELKADER, H., PATEL, D., MCGHEE, C., *ALANY, R.G. New therapeutic approaches in the treatment of neurotrophic keratopathy. *Clinical and Experimental Ophthalmology* 39(3) 259–270, 2011.
37. THRIMWITHANA, T., YOUNG, S., BUNT, C.R., GREEN, C., *ALANY, R.G. Drug Delivery to the Posterior Segment of the Eye. *Drug Discovery Today* 16 (5/6) 270-277, 2011.
38. THRIMWITHANA, T., YOUNG, S., *ALANY, R.G. Effect of cations on the micro-structure and in-vitro drug release from kappa and iota carrageenan liquid and semi-solid aqueous dispersions. *Journal of Pharmacy and Pharmacology* 63(1) 11-18, 2011.
39. SHOSHTARI, S. Z., WAHHABAGHEIB, H., MEHRSAIB, A., WEN, J-W., *ALANY, R.G. Transdermal delivery of bioidentical progesterone with a steroid 5 α -reductase inhibitor (Dutasteride): a Pilot study. *Journal of Pharmacy and Pharmaceutical Sciences* 13(4) 626 - 636, 2010.

40. SHOSHTARI, S. Z., WEN, J-W., *ALANY, R.G. Formulation and physicochemical characterization of imwitor 308 based self microemulsifying drug delivery systems. *Chemical and Pharmaceutical Bulletin* 58(10) 1332-1338, 2010.
41. THRIMWITHANA, T., YOUNG, S., DUNSATN, D., *ALANY, R.G. Texture and rheological characterization of kappa and iota carrageenan in the presence of counter ions. *Carbohydrate Polymers* 82(1) 69-77, 2010.
42. FOSTER, R. H., HARDY, G., *ALANY, R. G. Borage oil in the treatment of atopic dermatitis. *Nutrition* 26(7-8) 708-718, 2010.
43. ABDELKADER, H., KAMAL, A., ISMAIL, S., *ALANY, R.G. Preparation of niosomes as an ocular delivery system for naltrexone hydrochloride: Physicochemical characterization. *Pharmazie* 65(11) 1–7, 2010.
44. FOSTER, R. H., *ALANY, R. Borage oil and atopic eczema. *Complete Nutrition Australasia* 5(2) 8-9, 2010.
45. *ALANY, R. G., DESEVAUX, C. Highlights from the vet program in Copenhagen. *Controlled Release Society Newsletter* 26(4) 13, 2009.
46. SUN, Y., TRAVAS-SEDIJ, J.Y., WEN J-Y., *ALANY, R. G. Fabrication and physical-chemical characterisation of polyelectrolyte microparticles: Platform for controlled release of bioactives. *Current Drug Delivery* 6(4) 332-337, 2009.

47. CHAN, J., VOGEL, S.M., WEN, J-W., *ALANY, R.G. Potentiometric determination of ionisation constants for diphacinone and chlorophacinone in a dioxane–water cosolvent system. *Journal of Pharmaceutical and Biomedical Analysis* 50(1) 86-9, 2009.

48. SHOSHTARI, S. Z., WEN, J-W., *ALANY, R.G. Octanol water partition coefficient determination for model steroids using an HPLC method. *Letters in Drug Design and Discovery* 5(6) 394-400, 2008.

49. MENG, D., FALCONER, J., KRAUEL-GOELLNER, K., CHEN, J.J.J., FARID M., *ALANY, R.G. Self-built supercritical CO₂ anti-solvent unit design, construction and operation using carbamazepine. *American Association of Pharmaceutical Science AAPS PharmSciTech* 9(3) 944-952, 2008.

50. FRANKE, S., MLACOLMSON, C., BUNT, C. R., RUPENTHAL, I., *ALANY, R.G. Imaging techniques and their role in dosage form design and drug delivery research. *Current Pharmaceutical Analysis*. 4(3) 118-125, 2008.

51. CHAN, J., CRAIG J. P., ELMAGHRABY G. M. M. *ALANY R.G. Effect of water - in - oil microemulsions and lamellar liquid crystalline systems on the precorneal tear film of albino New Zealand rabbits. *Clinical Ophthalmology* 2(1) 1–9, 2008.

52. AL-SUWAYEH, S., YAU, E., THRIMAWITHANA, T., RUPENTHAL, I.D., *ALANY, R. G. Age-related macular degeneration. *New Zealand Pharmacy Journal* 27(10) 9-11, 2007.

<http://www.endex.co.nz/article.php?id=783>

53. RUPENTHAL, I.D., *ALANY, R.G. Fluorescence resonance energy transfer-a new tool to quantify the stability of antisense oligonucleotides. *Controlled Release Society Newsletter* 24(2) 12-14, 2007.

54. *ALANY, R.G. AL-NAWAB, T. BALIA, D., JAYARAMAN, Y. VALLABH, H, CRAIG, J.P. Aspects and management of dry eye. *New Zealand Pharmacy Journal* 27 (5) 22-24, 2007.

55. CHAN J., CRAIG J. P., ELMAGHRABY G. M. M. *ALANY R.G. Phase transition water - in - oil microemulsions as ocular drug delivery systems: In vitro and in vivo evaluation. *International Journal of Pharmaceutics* 328(1) 65-71, 2007.

56. BUNT, C.R., *ALANY R. Metformin extended release. A view point. *American Journal of Drug Delivery* 4(3) 187-188, 2006.

57. HARDY, I., *ALANY, R., RUSSELL, B., HARDY, G. Antimicrobial effects of arginine and nitrogen oxides and their potential role in sepsis. *Current Opinion in Clinical Nutrition and Metabolic Care* 9 225–232, 2006.

58. *ALANY, R.G. RADES, T. NICOLL, J. TUCKER, I.G. DAVIES, N.M. Water in oil microemulsions for ocular drug delivery: Evaluation of ocular irritation and precorneal retention. *Journal of Controlled Release* 111 145–152, 2006.

59. BUNT, CB AND *ALANY R.G. "Controlled release education, research

and industry in New Zealand. Controlled Release Society Newsletter 23(1) 30-32, 2006.

60. SHERIDAN J., *ALANY R.G., BRAKE D-J. 'Pharmacy students' views and experiences of Turnitin® – an online tool for detecting academic dishonesty. Pharmacy Education 5(3/4) 241–250, 2005.

61. *ALANY, R.G. 'Common eye conditions-Conjunctivitis' New Zealand Pharmacy 25(1) 28-29, 2005.

62. AGATONOVIC-KUSTRIN, S. WISCH, M.H. GLASS, B.D., *ALANY, R.G. 'Prediction of a stable microemulsion formulation for the oral delivery of a combination of antitubercular drugs using ANN methodology'. Pharmaceutical Research 20(11) 1760-1765, 2003.

63. AGATONOVIC-KUSTRIN, S. EVANS, A. *ALANY, R.G. 'Prediction of corneal permeability using artificial neural networks'. Pharmazie 58 725-729, 2003.

64. AGATONOVIC-KUSTRIN, S. LING, LH. THAM SY. *ALANY, R.G. 'Molecular descriptors that influence the amount of drugs transfer into human breast milk'. Journal of Pharmaceutical and Biomedical Analysis 29 103-119, 2002.

65. AGATONOVIC-KUSTRIN, S., *ALANY R.G. 'Application of diffuse reflectance infrared Fourier transform spectroscopy in analysing enantiomeric purity of terbualine sulphate bulk drug'. Analytica Chimica Acta 449 157- 165, 2001.

66. AGATONOVIC-KUSTRIN, S. *ALANY, R.G. 'Role of genetic algorithms and artificial neural networks in predicting the phase behaviour of colloidal delivery systems'. *Pharmaceutical Research* 18(7)1049-1055, 2001.

67. *ALANY, RG. 'Medical, pharmaceutical application for artificial neural networks. *New Zealand Pharmacy* 21(10) 3, 2001.

68. *ALANY, R.G. RADES, T. DAVIES, N.M. TUCKER, I.G. 'Characterising colloidal structures of pseudoternary phase diagrams formed by oil/water/amphiphile systems'. *Drug Development and Industrial Pharmacy* 27 31- 38, 2001.

69. *ALANY, RG. 'Dry eye syndrome: A Pharmaceutical perspective' *New Zealand Pharmacy*, 21(8) 35-36, 2001.

70. *ALANY, R.G. RADES, T. TUCKER, I.G. DAVIES, N.M. 'Evaluating the ocular irritancy of microemulsion systems and their components using a modified HET-CAM test.' *Proceedings of the University of Otago Medical School*. 78, 2-3, 2000.

71. *ALANY, R.G. RADES, T. AGATONOVIC-KUSTRIN, S. DAVIES, N.M. TUCKER, I.G. 'Effect of alcohols and diols on the phase behaviour of quaternary systems'. *International Journal of Pharmaceutics*. 196, 141-145, 2000.

72. *ALANY, R.G. AGATONOVIC-KUSTRIN, S. RADES, T. TUCKER, I.G.' Use of artificial neural networks to predict quaternary systems from limited

experimental data'. Journal of Pharmaceutical and Biomedical Analysis 19, 443- 452, 1999.

Teaching Area

Pharmaceutics; Formulation of Medicines; Advanced Pharmaceutical Technology; Development, Manufacturing and Regulation of Medicines.

Other Professional Activity

SIGNIFICANT DISTINCTIONS / AWARDS

2014 Member of the Organising Committee of the 2nd Annual International Conference on Pharmacology and Pharmaceutical Sciences (PHARMA 2014), Singapore, October 2014

2013 Workshop Organiser, Young Scientist Committee, Fundamentals of Controlled Release Drug Delivery: Physicochemical and Biological Aspects, 40th Annual Meeting and Exposition of the Controlled Release Society, Honolulu, Hawaii, USA, July 2013

2012 External Advisor on Periodic Review of Master Courses, Aston University Birmingham, UK

2012 Consultant, Alleva Animal Health, Auckland, New Zealand

2012 Expert Witness, James & Wells Intellectual Property, Auckland, New Zealand

2011 Honorary Associate Professor, School of Pharmacy, The University

of Auckland, Auckland, New Zealand

2011 Editorial Board Member, Drug Delivery Letters

2011 Editorial Board Member, Current Drug Delivery

2011 Invited Speaker, Young Scientist Workshop, 38th Annual Meeting and Exposition of the Controlled Release Society, National Harbour, Maryland, USA .

2011 Co-chair, Ophthalmic Session, 38th Annual Meeting and Exposition of the Controlled Release Society, National Harbour, Maryland, USA .

2011 Recipient of the following Spark prizes; Ideas Challenge, Unservices Prize and Chiasma Prize

2010 Invited Visiting Professor, Universiti Teknologi Mara, Malaysia.

2009 Programme Chair and Invited Speaker, Veterinary Track. 35th Annual Meeting and Exposition of the Controlled Release Society, Copenhagen, Denmark

2009 Editorial Board Member, International Journal of Drug Delivery

2009 President, New Zealand Chapter, Controlled Release Society (term ended in Oct. 2011)

2009 Editorial Board Member, Journal of Drug Delivery Science and

Technology

2009 Editorial Board Member and Ophthalmic Pharmacotherapy Section Editor, Clinical and Experimental Ophthalmology

2009 Young Scientist Committee (YSC) Membership, Controlled Release Society

2008 Scientific Steering Group Member, New Zealand National Eye Centre, The University of Auckland, Auckland , New Zealand

2008 Invited Speaker, Jordanian International Pharmaceutical Conference 2008 (JIPC 2008) organised by Al-Zaytoonah University of Jordan, Amman, Jordan

2008 Invited Speaker, 35th Annual Meeting and Exposition of the Controlled Release Society, Manhattan, New York, USA July 2008

2008 Programme Co-Chair and Invited Speaker, Veterinary Track. 35th Annual Meeting and Exposition of the Controlled Release Society, New York, USA (www.controlledrelease.org/meeting). (Award Recipient)

2008 Invited Speaker, 1st International Conference on Drug Design and Discovery February 4-7, 2008, Dubai, UAE. www.icddd.com

2007 Invited Speaker, New Zealand Natural Medicine Association Meeting, 14 August

2007 North Shore Events Centre, NSC, Auckland, New Zealand.
<http://www.nznma.com/nznma-news.html>

2007 Invited Speaker, 7th Saudi Pharmaceutical Society Conference,
Riyadh, Saudi Arabia

2007 Invited Speaker. GEA-NUS PPRL (National University of Singapore
Pharmaceutical Processing Research Lab) 10th Anniversary
Commemorative Pharmaceutical Technology Conference 17–19
December 2007, SINGAPORE. <http://www.geanus.nus.edu.sg/#>

2007 Solander Travel Grant, Lund University, Malmo, Sweden and The
University of Auckland, Auckland, New Zealand

2005 Invited Speaker, Auckland Branch, Pharmaceutical Society of New
Zealand, Auckland, New Zealand

2005 Invited Speaker, 8th International Conference "Gene and Drug
Therapy in Molecular Medicine", Crete Island, Greece

2005 Invited Speaker, Formulation and Drug Delivery Conference,
University of Otago, Dunedin, New Zealand

2005 Ballance Agri-Nutrients, Taurunga, New Zealand (Consultant)

2005 Pharmaceutical Compounding New Zealand, Auckland, New Zealand
(Consultant)

2004 Vice-president, New Zealand Chapter, Controlled Release Society

2004 Intellectual Property Expert, Baldwin Shelston and Waters, Auckland
New Zealand

2004 Fellowship of New Zealand College of Pharmacists (FNZCP)

2003 Invited Speaker, Department of Optometry and Vision Sciences, The
University of Auckland.

2003 Invited Speaker, Controlled Release. New Zealand Chapter of the
Controlled Release Society Workshop, Auckland, New Zealand.

2003 Early Career Research Excellence Award, The University of
Auckland Research Fund.

2002 Ancare New Zealand Limited, North Shore City, New Zealand
(Consultant)

2001 Douglas Pharmaceuticals, Auckland, New Zealand (Consultant)

2001 Associate, New Zealand College of Pharmacist

2001 New Zealand Pharmacy Education and Research Foundation
Funding

2000 Millennial World Congress of Pharmaceutical Sciences Travel Award,
San Francisco, USA

1999 Microscopy New Zealand Young Scientist Award, Roturua, New Zealand

1998 New Zealand Pharmacy Education and Research Foundation Funding

1998 University of Otago Postgraduate Scholarship, Dunedin, New Zealand

1997 University of Otago Divisional Teaching Assistantship, Dunedin, New Zealand