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**Director, Centre for Excellence in Nanobio Translational REsearch( CENTRE)**  
Professor & Head  
Dept of Pharmaceutical Technology  
Director, Centre for Nanobio Translational REsearch(CENTRE)  
Bharathidasan Institute of Technology  
Anna University,  
Tiruchirappalli 620 024

### ***RESEARCH INTEREST***

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#### **Nanopharmaceuticals**

- Multifunctional smart nanoparticle systems
- Inhalation Toxicology
- Impact of Environmental and societal factors in pulmonary diseases
- Occupational health and Herbal medicine

### ***EDUCATIONAL QUALIFICATIONS***

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- **Ph.D. (Pharmacy)**, Department of Pharmaceutical Technology, Jadavpur University, Kolkatta. Mentor: Prof.S.K.Ghosal  
First lady from Tamil Nadu to be awarded a Doctorate in Pharmacy (2000)
- **M.Pharmacy**, Department of Pharmaceutical Technology, Jadavpur University, Kolkatta.  
University Fifth rank(1994)
- **B.Pharmacy**,Madurai Medical College, Madurai Kamarajar University, Madurai.  
University First Rank(1991)
- **D.Pharmacy** ,Thanjavur Medical College, Thanjavur .First Class (1987)

### ***NATIONAL LEVEL TEST***

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- Qualified in **GRATUATE APTITUDE TEST IN ENGINEERING (GATE)-1992**

### ***POST DOCTORAL RESEARCH AND FELLOWSHIPS RECEIVED***

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- March 2007 - March 2008  
**BOYSCAST** (Better Opportunities for Young Scientists in Chosen Areas of Science & Technology) **Fellowship** by Department of Science & Technology, Ministry of Science & Technology, Government of India for conducting advanced research / undergoing specialized training in the area of **Life Sciences/Drug Delivery systems** for a duration of 12 months at **Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center**, College of Medicine, University of South Florida, 12901 Bruce B. Downs Blvd. Tampa, Florida 33612USA

- August 2008 - November 2008

**Post-Doctoral Researcher:** Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center, College of Medicine, University of South Florida, 12901 Bruce B. Downs Blvd. Tampa, Florida 33612, USA.

### ***PROFESSIONAL EXPERIENCE***

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- **Aug 2010 – Sep 2012**  
**Director, Centre for Research**  
Anna University of Technology, Tiruchirappalli
- **08.02.2010 – 15.07.2010**  
**Officiating Vice-chancellor, Anna University of Technology, Tiruchirappalli, Tamilnadu, India**
- **Professor & Head–01.02.2007 onwards**  
Department of Pharmaceutical Technology,  
Anna University Tiruchirappalli, Tiruchirappalli -620024
- **Professor & Head–05.03.2005 – 31.01.2007**  
Department of Pharmaceutical Engineering & Technology,  
Bharathidasan University, Tiruchirappalli.
- **Professor & Principal i/c - 01.03.2001 – 04.03.2005**  
Periyar College of Pharmaceutical Sciences (PCPS), Tiruchirappalli
- **Assistant Professor & Principal i/c –01.10.1999 –28.02.2001**  
Periyar College of Pharmaceutical Sciences, Tiruchirappalli
- **Senior Lecturer - 01.09.1998 – 30.09.1999**  
Periyar College of Pharmaceutical Sciences, Tiruchirappalli
- **Lecturer –04.07.1994 – 31.08.1998**  
Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
- **Analytical Chemist - Feb 1992 – Jul 1992**  
Tablets (India) Ltd, Chennai

## **INVENTIONS: PATENTS FILED**

### **a) . National :**

#### **1.Title: Herbal Exfoliate**

**File No. 841/CHE/2009;Dated 13.04.2009**

Inventors: Nilani Packianathan (Ooty, India) Ruckmani Kandasamy (Tiruchirappalli, India)

**Abstract:** A novel, potent flavonoid for the treatment of hypertrophic scarring has been isolated from *C. betacea* through bioactivity-guided fractionation.

#### **2.Title: Biopolymer Composition**

**File No. 2742/CHE/2010;Dated 20.09.2010**

Inventors: Nilani Packianathan (Ooty, India) Ruckmani Kandasamy (Tiruchirappalli, India)

**Abstract:**A plant-based, ecofriendly biopolymer with good filmogenicity, dissolution, and disintegration rates comparable to hard gelatin film as a suitable alternative to gelatin and synthetic polymers.

#### **3.Title: Novel and stable pharmaceutical compositions of vitamin A analogs ;**

**File No. 831/CHE/2011;Dated 17.03.2011**

Inventors: Thusleem Omar Abdul Gani (Jeddah,Saudi Arabia) Ruckmani

Kandasamy(Tiruchirappalli , India ) Muneera Mohamed Shafee (Jeddah, Saudi Arabia)

Saleem Zainuddin Shaikh (Jeddah,Saudi Arabia)

**Abstract:** The present invention relates to a novel and stable pharmaceutical composition of Vitamin A analogs with higher drug loading ability, process for producing the composition and methods of delivering the vitamin A analogs.

### **b). International:**

#### **Title: Immediate release compositions of acid-labile drugs.**

**U.S NO :** 61/293,926; January 11, 2010

**PCT Application No:** PCT/IB2011/000017; January 7, 2011

Inventors: Muneera Mohamed Shafee ( Jeddah,Saudi Arabia) Ruckmani Kandasamy

(Tiruchirappalli , India ) Thusleem Omar Abdul Gani ( Jeddah,Saudi Arabia)

Saleem Zainuddin Shaikh (Jeddah,Saudi Arabia) Anand Vasantharao Kondaguli

(Jeddah,Saudi Arabia)

**Abstract:** The present invention provides a pharmaceutical formulation and process for preparing a multicomponent system in which one component is an acid-labile drug and the other is a rapid-release buffer along with pharmaceutically acceptable excipients for oral administration and ingestion by a subject.

## FUNDS RECEIVED

FUNDING AGENCY	GRANT NO & YEAR GRANT RECEIVED	TOPIC OF THE PROJECT	STATUS
DST, GOI	DST/SSTP/TN/2012-13/12 <sup>th</sup> Plan/143	Investigations on herbal preparations used in the management of Dengue and Chikungunya viral infections in Tamil Nadu	Sanctioned
DBT,GOI under Twinning Programme for North East	File no.BT/193/NE/TBP/2011 dated 24.05.2012 <b>Rs.29.40 lakhs</b> <b>Total : Rs. 57.62 lakhs</b>	Isolation, Characterization and Formulation studies of gums obtained from Albiziastapulata and Prunuscerasoides of Mizoram	In progress
DST, Govt.of India	VI-D& P/349/10-11/TDT/1 dated 21.10.2010 <b>Rs. SIX Crores(\$1.5million)</b>	National Facility on Drug Development for Academic Institutions, Pharmaceutical and Allied industries	In progress
Nanomission,DST	SR/NM/NS-19/2009 19.01.2010 <b>Rs.32.14lakhs</b>	Nanocomplexes forthe Targeted Drug Delivery to theInflamed Site of Lungs	In progress
AICTE	AICTE Letter No. 200-fin/21/98-99 dt 19.05.99 <b>Rs.8.5 lakhs</b>	Modernization of(MODROBS) Pharmaceutical Biotechnology Laboratory	Completed
DRDO	TC/102/DIP-217/G1/DIPAS/99 dt19.05.1999 <b>Rs.0.55 lakhs</b>	Evaluation of antitumour activity and Pharmacokinetic evaluation of the concept pessary	Completed
AICTE	AICTE F.No.8022/RID BoIII – EMD (67) 2003 – 04 (Revalidated for 2004 – 05) Dt. 21.07.2004 <b>Rs.6.00 lakhs</b>	Entrepreneurship andManagement DevelopmentProgramme	Completed
Indian Society for Technical Education,AICTE	ISTE/STTP/C-239/2004 Dt. 29.03.2004 <b>Rs.0.9 lakhs</b>	AICTE Short termtraining programme On“Recent Trends inPharmaceutical Technology”	Completed
DST	Better Opportunities for Young scientists in the Chosen Areas of Science & Technology(BOYSCAST ) Fellowship	One year Advanced Training at <b>Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center</b> , College of Medicine, University of South Florida, Tampa, Florida 33612USA March 2007- March 2008 Completed	
CSIR	SYM/5034/09-HRD dated Dec 2,2009 <b>Rs.0.25 lakhs</b>	National conferenceon “Recent Trends and Applications ofNanotechnology in Pharmacy & Biology”Jan 21 &22,2010	completed
ICMR	No. 7/396/2009-Admin-II		Completed

	dated 25.03.2010 <b>Rs.0.25 lakhs</b>		
DST,New Delhi	VI-D& P/321/09-10/TDT dated 23.12.2009 <b>Rs.3.00 lakhs</b>		Completed
Anna University, Chennai	Lr.No.CIA/Hosp./2013, Dt.04.10.2013 <b>Rs.2.00 lakhs</b>	NanoBio Collaborative International Conference 27-29 <sup>th</sup> , 2013 jointly organised with Nanomedicine Research Centre, University of South Florida,USA	completed
DST	VI-D&P/464/2014/TDT Dt:10.06.2013 <b>Rs.4,75,000/-</b>		completed
Mother Teresa Women University, Kodaikanal	MTU Dt: 16.05.2013 <b>Rs.2.00 lakhs</b>		completed
ICMR,New Delhi	No.7/151/13-Seminars (HRD) dt.21.05.2013 <b>Rs.40,000/-</b>		completed
INSA,New Delhi	SP/C-25/2013, Dt: 31/05/2013/809 <b>Rs.40,000/-</b>		completed
DRDO,New Delhi	ERIP/ER/13-14/C/63 29.08.2013 <b>Rs.50,000/-</b>		completed

## MERITORIOUS AWARDS & PRESTIGIOUS NOMINATIONS

- Best Innovation Award 2013 with a cash prize of Rs.50,000 for innovation “ Design and Development of Novel Concept for Immediate Release of Pantoprazole” from Anna University, Chennai
- Member - Project Evaluation Group under State Science & Technology Programme (SSTP) of DST, Government of India
- Vetri Penmani (Women Achiever) Award 2011 by Bharathidasan University, Tiruchirappalli for the contribution made in the field of Research
- Shri P.K.Das Memorial Best Faculty Award 2010-2011 instituted by Nehru Group of Institutions (Tamilnadu & Kerala)
- Prof.S.P.Thiagarajan and Prof.S.Rajarajan Endowment Award 2009 for the **outstanding patent filed** in the field of **bio-medicine** under the prizes and awards of Indian Association of Biomedical Scientists(IABMS)
- **BOYSCAST** fellowship 2006-07 by DST, Ministry of Science & Technology, New Delhi
- **Tamilnadu Young Women Scientist Award** 2006 in the field of Medical Sciences and Native Medicine (Instituted by Science City, Chennai, Government of Tamilnadu)
- **G.P. Nair Award** 1991 given by Indian Drug Manufacturer’s Association, Mumbai
- Cash award Rs.1000 and certificate of appreciation for securing 100% results in the subjects handled for every year from 1996-2003 by Periyar College of Pharmaceutical Sciences, Tiruchirappalli
- Governor nominee –Planning Board of Mother Theresa Women’s University, Kodaikanal. April 2010 to April 2013
- Research reviewer for reputed journals like Journal of Biomedical Nanotechnology, Drug Development and Industrial Pharmacy (Informa Healthcare, USA) Journal of Ethno pharmacology (Elsevier), African Journal of Biotechnology (Academic Journals), Indian Journal of Experimental Biology [CSIR] and Editorial Board member of Journal of Biological Sciences, Journal of Pharmacology and Toxicology and International Journal of Pharmacology
- Coordinator, Field of Pharmaceutical Technology, Tamilaga Ariviyal Peravai-10<sup>th</sup> Conference, Manonmanium Sundaranar University, Tirunelveli May 2010.
- Coordinator, Field of Pharmaceutical Technology, Tamilaga Ariviyal Peravai-9<sup>th</sup> Conference, Alagappa University, Karaikudi 11-13 September 2009.
- **Government Merit scholarship** awarded during S.S.L.C. by Tamilnadu State Government
- Chairman of the **ISTE** (Indian Society for Technical Education) **Chapter** which has been awarded the Best ISTE chapter award 2004

**PUBLICATIONS : National : 46                      International : 35                      Total : 81**

1. P.Renuga Devi, C.Senthil Kumar, P.Selvamani, N.Subramanian and K.Ruckmani (2015) Synthesis and characterization of Arabic gum capped gold nanoparticles for tumor-targeted drug delivery. Material Letters, 139, 241-244. <http://dx.doi.org/10.1016/j.matlet.2014.10.010> (In Press) (Impact Factor - 2.269)
2. S. Lakshmana Prabu, TNK Suriyaprakash, K.Ruckmani, R. Thirumurugan (2014) Concepts of Process Validation in Solid Dosage Form [Tablet] – An Overview. SAJ Pharmacy and Pharmacology, 1(1), 1-12.
3. C. Malsawmtluangi, K. Thanzami, H. Lalhlenmawia, T.Veenus Seelan, P.Selvamani, Ruckmani Kandasamy, Laldusanga Pachuau (2014) Physicochemical characteristics and antioxidant activity of *Prunus cerasoides* D.Don gum exudates. International Journal of Biological Macromolecules 69, 192-199 (Impact Factor 2.596)

4. K. Ruckmani, Saleem Z. Shaikh, Pavne Khalil, Aamer Khatri, Javed Akmal, (2014) A New Simple and Rapid Method for the Determination of Sodium Hyaluronate in Active Pharmaceutical Ingredient and Ophthalmic Formulations by DP5 Photorode, *World Journal of Analytical Chemistry*, Vol. 2, No. 2, 15-22. DOI:10.12691/wjac-2-2-1
5. M. Pradeepa, K. Harini, K.Ruckmani and N.Geetha (2014) Extracellular Bio-inspired synthesis of silver nanoparticles using Raspberry leaf extract against human pathogens. *Int. J. Pharm. Sci. Rev. Res.*, 25(2), 160-165. ISSN 0976 – 044X (Impact factor 0.65)
6. K.Ruckmani, Saleem Z. Shaikh, Pavne Khalil, M.S.Muneera, O.A.Thusleem (2013) Determination of sodium hyaluronate in pharmaceutical formulations by HPLC-UV. *Journal of Pharmaceutical Analysis (Elsevier)* 3(5); 324-329 ISSN: 2095-1779. <http://dx.doi.org/10.1016/j.jpha.2013.02.001>
7. Ruckmani Kandasamy and Akilandeswari Krishnan (2013) Estimation of Anti Microbial Activity of Ascorbic Acid in Superoxide Dismutase Level in Microbial Culture with Amino Penicillin – Ampicillin, *Int. J. Pharm. Sci. Rev. Res.*, 20(2), 167-169. (Impact factor 0.65)
8. K.Akilandeswari, K.Ruckmani, S.Abirami (2013) Enhancement of the Efficacy of Antibiotics Ciprofloxacin and Gentamycin against Gram Positive And Gram Negative Micro Organism With Non Antibiotic Nimesulide, *International Journal of Pharmacy and Pharmaceutical Sciences*, Vol 5, 627-630 DOI: <http://dx.doi.org/10.13040/IJPSR.0975-8232>, ISSN(Online): 0975-8232, ISSN (Print): 2320-5148 impact factor 0.533
9. Ruckmani Kandasamy and Kumaresan Chandrasekaran, (2012) Sustained release aerosol for pulmonary drug delivery system; A Review, *International Journal of Pharmacy and Pharmaceutical Sciences*, Vol 5, 126-130 DOI: <http://dx.doi.org/10.13040/IJPSR.0975-8232>, ISSN(Online): 0975-8232, ISSN (Print): 2320-5148 impact factor 0.533
10. C.Kumaresan, N.Subramanian, M.Gover Antonyraj, K.Ruckmani (2012) Dry powder inhaler –Formulation aspects, *Pharma Times*, 44(10), 14-18. ISSN 0031-6849
11. K.Ruckmani, Saleem Z. Shaikh, Pavne Khalil, M.S.Muneera (2011) A simple and rapid high-performance liquid chromatographic method for determining tobramycin I in pharmaceutical formulations by direct UV detection, *Pharmaceutical Methods* 2(2) 117-129. DOI: 10.4103/2229-4708.84455 Impact factor: 1.855
12. Durgaramani Sivadasan , Kandasamy Ruckmani, Shalini Devi, B. Sree Tejaswi (2011) Biodegradable polymeric micelles of camptothecin: formulation and characterization, *Acta Pharmaceutica Scientia*, 53: 243-260 Impact factor 0.78
13. K. Ruckmani, C. Kumerasan (2011) Effects of crystallinity on compression of Pharmaceuticals, *Pharma Times*, 43(10), 13-15. ISSN 0031-6849
14. Prakash, A., Dibakar, M., Selvakumar, K., Ruckmani. K., Sivakumar, M. (2011) Efficient indoles and anilines syntheses employing tert-butyl sulfonamide as ammonia surrogate, *Tetrahedron Letters*, 52 (43), 5625-5628 Impact factor 2.618
15. M. Gobinath, N. Subramanian, K. Ruckmani and V. Alagarsamy (2011) Synthesis, Characterization and Biological Evaluation of Novel 1- Substituted-4-(2-methoxyphenyl)-s-triazolo[4,3-a]quinazolin-5(4H)-ones, *Int J Drug Design & Discovery* Vol.2, 4, 642-647 ISSN: 0975-8275
16. Mullick Dibakar , Anjanappa Prakash , Kumaravel Selvakumar , Kandasamy Ruckmani , Manickam Sivakumar (2011) 2-(Trimethylsilyl) ethanol as a new alcohol equivalent for copper-catalyzed coupling of aryl iodides, *Tetrahedron Letters*, 52, 5338–5341 Impact factor 2.618
17. R.Vijaya and K.Ruckmani (2011) Preparation and Evaluation of Sertraline HCl Transdermal Film Using the Adhesive Polymer Eudragit E 100R, *Journal of Pharmacy Research*, 4(4), 1102-1104 Impact factor 1.09
18. R.Vijaya, D.Deepa, T.Senbagha priya and K.Ruckmani (2011) The development and evaluation of transdermal films of Amitriptyline hydrochloride, *International Journal of Pharmacy and Technology*, 3(1), 1920-1933, (ISSN: 0975-766X)

19. R.Vijaya, T.Jayaraj, C.Pratheeba, A.Anuzvi and K.Ruckmani (2011) Design and *in-vitro* evaluation of hydroxy propyl methylcellulose based transdermal films of amitriptyline hydrochloride, *Journal of Pharmacy Research*,4(6),1748-1750 Impact factor:2.667
20. Nilani Packianathan, Ruckmani Kandasamy (2011) Skin Care with Herbal Exfoliants Functional Plant Science and Biotechnology (FPSB)(Published by Global Science Books, Japan).5(Special issue 1),94-97
21. Ruckmani Kandasamy, Saravanan Karumbayaram, Nilani Packianathan, Duraisamy Basuviah, Dhamodaran Perumalsami Reddy, Elango Kannan (2011) Hypertrophic Scar Management with a Flavonoid Fraction of *Cyphomandra betacea* Functional Plant Science and Biotechnology (FPSB)(Published by Global Science Books, Japan), 5(Special issue 1) 88-90.
22. Veintramuthu Sankar, Kandasamy Ruckmani, Kanniyappan Velayutham, Munusamy Nithyananth (2010) Comparative evaluation of zidovudine tablets formulated using natural and semi synthetic binder, *Acta Pharmaceutica Scientia*, 52:263-268 Impact factor 0.65
23. Dibakar Mullick, Prakash Anjanappa, Kumaravel Selvakumar, Kandasamy Ruckmani, Manickam Sivakumar (2010) Carbamic acid 2-trimethylsilylethyl ester as a new ammonia equivalent for palladium-catalyzed amination of aryl halides, *Tetrahedron Letters*, 51(46), 5984-5987 Impact factor 2.618
24. Magesh Kumar, K., Jena, A.Ruckmani, K., Rajendran, P (2010) Formulation and evaluation of taste-masked orally disintegrating ondansetron hydrochloride tablet. *International Journal of Research in Pharmaceutical Sciences*, 1( 3),328-332 impact factor:0.533
25. Ruckmani Kandasamy, Sankar, Veintramuthu (2010) Formulation and optimization of zidovudine niosomes, *AAPS PharmSciTech*, 11(3):1119-27. Impact factor 1.211
26. V.Sankar, K. Ruckmani, K.Velayutham (2010) Cost Effective Approach for Treating HIV Patients.*Arch Pharm Sci & Res*, 2(1) 228-229, Impact factor:1.538
27. Sankar Veintramuthu, Ruckmani Kandasamy,Velayutham Kanniyappan,Nithyananth Munusamy (2010) A study on prescription pattern and cost analysis of Antiretroviral drugs, *International Journal of Pharma and Bio Sciences*, V1 (2), 1-5, Impact factor: 2.958
28. V. Sankar, K Ruckmani, S.Durga and S.Jailani, (2010) Proniosomes as drug carriers, *Pak. J. Pharm. Sci.*, 23(1), 103-107. Impact factor 0.728
29. Kandasamy R,Park SJ,Boyapalle S,Hellermann GR,Lockey RF and Mohapatra SS (2010) Isatin down-regulates expression of atrial natriuretic peptide receptor A and inhibits airway inflammation in a mouse model of allergic asthma, *International Immunopharmacology*, 10 (2), 218-225 Impact factor:2.376
30. Ruckmani Kandasamy; Sankar, Veintramuthu; Sivakumar, Manickam (2010) Tissue Distribution, Pharmacokinetics and Stability Studies of Zidovudine Delivered by Niosomes and Proniosomes, *J Biomed Nanotechnol*, 6(1):43-51. Impact factor: 2.626
31. V. Sankar, C. Praveen, K.G. Prasanth, C.R. Srinivas, K. Ruckmani (2009) Formulation and evaluation of a proniosome hydrocortisone gel in comparison with a commercial cream. *Pharmazie*, 64(11), 731-734. Impact factor 0.8
32. Ruckmani Kandasamy,Nilani Packianathan (2009) The effect of the natural dye from the fruits of *Cyphomandra betacea* with natural mordant on selected fibres, *Herbal Tech Industry; Journal of Herbal Science and Technology*, 5(12), 14-18, ISSN 2345-3249
33. Veintramuthu Sankar,Venkatesan Harikrishnan,Kalvaraserial Gopinathan pillaiPrasanth, KandasamyRuckmani,Munusamy Nithyananth (2009)In vivo evaluation of dexamethasone sodiumphosphate nanoparticles for post cataract treatment, *Pharmacologyonline(Italy)*3, 822-828, Impact Factor:0.8
34. Ruckmani Kandasamy,Nilani Packianathan (2009) Protect your skin from photodamage using herbal sunscreen agents, *Herbal Tech Industry Journal of Herbal Science and Technology*, 5(8); P11-17, ISSN 2345-3249
35. V. Sankar , K. Ruckmani , S.Jailani, K.Siva Ganesan ,S.Sharavanan (2009) Niosome drug delivery system: Advances and medical applications – An overview, *Pharmacologyonline(Italy)*, 2: 926- 932. Impact factor 0.8

36. Veintramuthu Sankar, Venkatesan Harikrishnan, Kalvaraserial Gopinathan pillaiPrasanth, Kandasamy Ruckmani, Munusamy Nithyananth (2009) Nanoparticles for post cataract treatment, *Intl. J. Biomed. Pharma. Sci*, 3(1), 79-82, ISSN no:0976-0350
37. Shaikh S, Thusleem OA, Muneera MS, Akmal J, Kondaguli AV, Ruckmani K (2008) A simple and rapid high-performance liquid chromatographic method for the determination of bisoprolol fumarate and hydrochlorothiazide in a tablet dosage form, *J Pharm Biomed Anal*. 48(3):1055-7. Impact factor 2.733
38. Ruckmani, K.; Sivakumar, M.; Kumar, S. Sathees (2007) Nanoparticulate Drug Delivery System of Cytarabine Hydrochloride (CTH) for Improved Treatment of Lymphoma, *Journal of Biomedical Nanotechnology*, 3(1), 1-7. Impact factor 2.626
39. Saleem Shaikh, M.S. Muneera, O.A. Thusleem, Muhammad Tahir, Anand V. Kondaguli, and K.Ruckmani (2007) Development and validation of a Selective online Dissolution method for Rosiglitazone maleate, *Journal of Chromatographic Science*, 2007,45(6),311-314. I.F:1.078
40. Ubaidulla U, Reddy MV, Ruckmani K, Ahmad FJ, Khar RK (2007) Transdermal Therapeutic System of Carvedilol: Effect of Hydrophilic and Hydrophobic Matrix on In Vitro and In Vivo Characteristics, *AAPS PharmSciTech*, 8(1): E13-E20. Impact factor 1.211
41. V. Sankar, K. Ruckmani, R. Saraswathi, M. Ramanathan (2006) Investigation on Niosomes with Zidovudine as a Carrier for Treating HIV Infection, *J Pharm Pharmaceut Sci*, 9(2), impact factor :3.13
42. Ruckmani, K., Sivakumar. M., Ganesh kumar, P.A. (2006) Methotrexate Loaded Solid Lipid Nanoparticles (SLN) for Effective Treatment of Carcinoma, *Journal of Nanoscience and Nanotechnology*, 6, 1-5. Impact factor 1.44
43. Alagarsamy, V., Giridar, R., Yadav, M.R., Revathy, R., Ruckmani, K. Clercq, E (2006) AntiHIV, antibacterial and antifungal activities of some novel 1,4 disubstituted--1, 2, 4-triazolo [4, 3-a] quinazolin-5(4H)-ones, *Indian Journal of Pharmaceutical Sciences*, 68(4), 532-53, Impact Factor 0.3.
44. Faisal K, Parveen S, Rajendran R, Girija R, Periasamy VS, Kadalmani B, Puratchikody A Ruckmani K, Pereira BMJ, Akbarsha MA (2006) Male Reproductive Toxic Effect of Quassia Amara: Observations On Mouse Sperm, *Journal of Environmental Research: 10 (1): 66 – 69, Impact factor:3.328*
45. Kumar SS., Rajkumar S., Ruckmani K. (2003) Formulation and Evaluation of Ibuprofen Loaded Nanoparticles for Improved Anti-Inflammatory Activity, *Acta Pharmaceutica Turcica*, 45, 125-130, ISSN: 1010-0849
46. Valarmathi R., Sundari SKK., Puratchikody A., George S., Suresh Kumar S., Ruckmani K. (2003) Spectrometric methods for the determination of Sibutramine Hydrochloride from capsules, *Indian Journal of Pharmaceutical Sciences*, 647-648, Impact Factor 0.3.
47. Puratchikody A., Yasodha A., Rukmani K., Sarkunam K., Nallu M (2003) Synthesis and bioactivity of 2,4,5-triphenylimidazoles, *Indian Journal of Heterocyclic Chemistry*, 13 (1), pp.79-80. Impact factor 0.345
48. Ruckmani, K., Kavimani. S., Karpagam Kumara Sundari, S. (2003) Anti-tumour activity of methanolic extracts of *Enicostemma littorale* and *Aristolochia bracteolata* on Dalton's Ascitic Lymphoma, *Hamdard Medicus*, XLVI (2), 61-64.
49. Puratchikody, A., Valarmathy, R., Shiju, P., Varghese. Jobin John., Ruckmani, K. (2003) Reverse Phase-High performance liquid chromatographic determination of atorvastatin calcium in solid dosage forms, *The Pharm. Review*, 79-83
50. Manimaran, S., Loganathan, V., Akilandeswari, S., Jaswanth, A., Satya, S., Ruckmani, K. (2002) Wound healing and antimicrobial activity of formulated cream of leaf volatile oil of *Atlantia monophylla* Correa, *Hamdarad Medicus*, 45 (4), 59-62.
51. Jaswanth, A., Ramanathan, P., Ruckmani, K., (2002) Evaluation of mosquitocidal activity of *Annona squamosa* leaves against filarial vector mosquito, *Culex quinquefasciatus* Say, *Indian J. Exp. Biol*, 40(3), 363-365. ISSN: 0019-5189
52. Nallu, M., Puratchikody, A., Sivajothi, V., Jaswanth, A., Ruckmani, K. (2002) Synthesis of Benzimidazole Derivatives of Biological Interest, *Indian Journal of Heterocyclic Chemistry*, 11, 241-242. Impact factor 0.345

53. Jaswanth, A., Ramanathan, M., Ravindra Babu, S., Manimaran, S., Ruckmani, K. (2002) Evaluation of Insecticidal activity of *Annona squamosa* against the storage pest *Sitophilus oryzae* *Indian Drugs*, 39(5), 297-298, ISSN NO: 0019-462X
54. Jaswanth, A., Ramanathan, M., Krishnaraj, V., Ruckmani, K. (2002) Insecticidal activity of leaf extract of *Annona reticulata*, *Advances in Pharmacol. and Toxicol.*, 3(2), 13-16
55. Jaswanth, A., Jegannathan, K., Robert, S.J.H., Loganathan, V., Manimaran, S., Ruckmani, K. (2002) Antibacterial Activity of root extract of *Trianthema decandra*, *Ancient science of life*, 21(3), 158-159
56. Jaswanth, A., Jesinda, J., Puratchikody, A., Ruckmani, K., Jagannathan, K. (2001) In-vitro evaluation of H<sub>2</sub> Receptor antagonistic activity using rat uterus, *Ad. Pharmacol. Toxicol.*, 2(1), 29-31.
57. Jaswanth, A., Hazeena Begum, V., Akilandeswari, S., Nargis Begum, T., Manimaran, S., Ruckmani, K. (2001) Effect of *Azima tetracantha* on Dermal Wound Healing in Rats, *Hamdard Medicus*, XLIV, 3, 13-16.
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66. Ruckmani, K., (2000) Eudragit matrices for sustained release of ketorolac tromethamine: formulation and kinetics of release, *Boll. Chim. Farmac Anno (Italy)*, 139(5), 205-208, Impact factor: 3.741
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## PRESENTATIONS AT CONFERENCES

- Improved Treatment of Lymphoma by Cytarabine Hydrochloride Nanoparticle  
**K. Ruckmani**, S. Sathesh Kumar and N. Subramanian, *1st Indo-Japanese International Conference on Advances in Pharmaceutical Research and Technology*, Nov 25-29, 2005  
Mumbai
- Solid Lipid Nanoparticles (SLN) - A Novel Carrier System for Antitumour Drugs – Characterization, In-Vitro & In-Vivo Studies.  
**K. Ruckmani**, M. Siva Kumar and P.A. Ganeshkumar, *International Conference on Nanotechnology in Advanced Drug delivery (Nano 2006)*, Feb 17-18, 2006, NIPER, Chandigarh, India
- Nanoparticulate Drug Delivery System of Cytarabine Hydrochloride  
**K. Ruckmani**, M. Sivakumar, S.S. Kumar, *Indo-US Symposium on Nanotechnology in Advanced Drug Delivery*, Oct. 4-6, 2006, NIPER, Chandigarh, India
- Cyclodextrin-isatin nanocomplexes (CINs) improve solubility and toxicity of Isatin  
**Ruckmani Kandasamy**, Sang Joon Park, Richard Lockey and Shyam S Mohapatra, *Symposium on Molecular Diversity in Drug Design, Discovery and Delivery*, October 24-26, 2007. University of South Florida. Organized by Florida Center of Excellence in Biomolecular Identification and Targeted Therapeutics (FCoE-BITT)
- NPRA inhibitor Isatin inhibits inflammation in mouse model of asthma  
**Ruckmani Kandasamy**, Sang Joon Park, Richard Lockey and Shyam S Mohapatra  
2008 Research Day, University of South Florida, Tampa, USA. Feb. 22, 2008  
Solid Oral Flexible Tablet Systems (SOFTS) Prabakaran Chandrasekaran, **Ruckmani Kandasamy**, AAPS Meeting & Exposition, November 14, 2013 at San Diego.
- Development of Age appropriate formulation for Pediatric patients  
Prabakaran Chandrasekaran, **Ruckmani Kandasamy**, AAPS Meeting & Exposition, November 14, 2013 at San Diego.
- Characterization Studies of Sunlight Induced Biosynthesis of Silver Nanoparticles Using *Solanum melongena* (Egg Plant)  
V. Aravindhan, C. Senthil Kumar, H. Linda Jeeva Kumari and K. Ruckmani, *International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology*, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Formulation of Soap and Cream From Biosynthesised Silver Nanoparticles of *Adathoda Vasica* Nees. Leaf Extract  
H. Linda Jeeva Kumari, S. Sonia, R. Krishnamoorthy, M. Sivakumar and K. Ruckmani, *International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology*, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Preparation and Characterization of Leflnomide Loaded Nanosuspensions for Rheumatoid Arthritis  
S. Lakshmana Prabu, S.P. Sharavanan, A. Shanmugarathinam, K. Ruckmani and A. Bhuvaneshwari, *International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology*, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.

- Diclofenac Sodium Nanosuspension: An Approach To Improve Anti-Inflammatory Therapy  
S. Lakshmana Prabu, S.P. Sharavanan, A. Shanmugarathinam, K. Ruckmani, S. Aravindan, A. Bhuvaneshwari and V. Manikandan, International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Design and Characterisation of Baclofen Sustain Release Tablet Using Hydrophilic Matrix  
R. Mohan Kumar, M. Balakumaran, M. Annapoorni, P. Selvamani, N. Subramanian and K. Ruckmani, International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Redox Environment Cleavable Polymeric Nanoparticles for Drug Delivery  
M. Gover Antoniraj, C. Senthil Kumar, Angeline Tisha and K. Ruckmani, International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Diuretic Activity of Ethanolic Extract of *Aristolochia Indica* Linn. In Rats  
R. Mohan Kumar, M. Balakumaran, P. Selvamani, N. Subramanian and K. Ruckmani, International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Antimicrobial Activity of *Asystasia Gangetica* (L.) T. Anderson Flower Extracts  
R. Jayalakshmi, P. Selvamani, K. Ruckmani and N. Subramanian, International Conference on Innovations and Future Research Dimensions in Nanobio Pharmaceutical Technology, October 07-08, 2014 at Department of Pharmaceutical Technology, BIT campus, Anna University, Tiruchirappalli.
- Formulation of Herbal Bath Soap from *Vitex negundo* Leaf Extract. Krishnamoorthy R., Samuel S., Linda Jeeva Kumari H. and Ruckmani K. Journal of Chemical and Pharmaceutical Sciences. October 2014 Spl. Issue 2 : 95-99. National Conference on Plant Metabolomics - Phytodrugs 2014 (ISSN : 0974 - 2115)
- Solid Oral Flexible Tablets (SOFT) Formulation of Desloaratadine  
Prabakaran Chandrasekaran , **Ruckmani** Kandasamy, AAPS Meeting & Exposition, November 2-6,2014 at San Diego.

### **CONFERENCE /SEMINAR/ WORK SHOP/SYMPOSIA ATTENDED**

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1. Workshop on “Training of Evaluators / Resource persons on Outcome Based Accreditation” Organized by National Board of Accreditation(NBA) , New Delhi at Nodal Centre, Bannari Amman Institute of Technology, Sathyamangalam, Tamilnadu held on 05.03.2014 (Phase- I) and during 14.03.2014 to 16.03.2014(Phase-II)
2. Educational Leadership Development Programme organised by AICTE, Government of India in association with UKIERI (UK-India Education and Research Initiative) at National Institute of Technical Teachers Training and Research (NITTTR) Chennai during 28.04.2014-30.04.2014.

3. Educational Leadership Development Programme organised by AICTE, Government of India in association with UKIERI (UK-India Education and Research Initiative) at National Institute of Technical Teachers Training and Research (NITTTR) Chennai during 02.06.2014-04.06.2014.
4. BRNS sponsored National Seminar on “Application of Ionizing Radiation in Pharmaceuticals” Organized by Aditya Bangalore Institute for Pharmacy Education & Research (ABIPER), Bangalore held on 4th October 2013.
5. 25 th Appreciation course in Parliamentary processes and procedures 18-20, Aug 2010 organized by the Bureau of Parliamentary Studies and Training (BPST), New Delhi.
6. One day National workshop on Patent Information 29.04.2009. Jointly organized by Bharathidasan University, NIT, Trichy and TNSCST, Chennai
7. Workshop on “Health Summit” 2009. Theme : “Building a Healthy Tamilnadu” Organized by Confederation of Indian Industry , 21 February 2009, Chennai
8. Symposium on “Detection, Diagnostics and Therapeutics” organized by Florida Center of Excellence in Biomolecular Identification and Targeted Therapeutics (FCoE-BITT). October 15-17, 2008. University of South Florida, Tampa USA
9. 18th Annual USF Health Research Day on 22nd February 2008 at University of South Florida, Tampa, USA- Npra inhibitor Isatin inhibits inflammation in an experimental model of Asthma.
10. Signature Interdisciplinary Program in Allergy, Immunology and Infectious Diseases (SIPAIID) Conference on “Advances in Immune Regulation” May 4-5, 2007 at University of South Florida, Tampa, USA
11. Symposium on “Update In Allergy And Immunology” – September 29, 2007 at Tampa, USA
12. Symposium on “Molecular Diversity in Drug Design, Discovery and Delivery”, October 24-26, 2007 at the University of South Florida. Tampa, USA. Organized by Florida Center of Excellence in Biomolecular Identification and Targeted Therapeutics (FCoE-BITT).
13. 2007 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition November 11-15, 2007, San Diego, USA
14. 2008 Research Day Conference, University of south Florida, Tampa, USA. Feb. 22, 2008
15. American Academy of Allergy Asthma and Immunology (AAAAI) Annual Meeting March 14-18, 2008, Philadelphia, USA
16. International Conference on “Nanotechnology in Advanced Drug Delivery” at NIPER, Chandigarh during 17-18<sup>th</sup> Feb. 2006
17. First Indo-Japanese Conference on, “Advances in Pharmaceutical Research and Technology: Drug Discovery, Development and Delivery” Mumbai during 26-29, November 2005
18. 56<sup>th</sup> Indian Pharmaceutical Congress at Kolkatta, December 3 – 5<sup>th</sup> 2004.
19. XXV Annual Conference of the “Indian Association of Biomedical Scientists” at Chennai, 7 – 10<sup>th</sup> October, 2004.

20. 55<sup>th</sup> Indian Pharmaceutical Congress at Chennai, December 20 – 22<sup>nd</sup> 2003
21. SEAR Pharm Forum workshop on “Medicine Prices in SEA region at Chennai” on 22<sup>nd</sup> December 2003 organized by SEAR Pharm Forum
22. International convention of Pharmacy Educators at Bangalore on March 16 & 17, 2002.
23. Workshop on Medicinal plants at Chettinad College of Arts & Sciences, Trichy on 5<sup>th</sup> Sep 2001 organised by voluntary health organisation.
24. Workshop on ISO 9000 : 2000 held at Bharat Heavy Electricals Limited, Trichy on 20<sup>th</sup> July 2001 organised by Germanischer Lloyd Industrial Services India Pvt. Ltd.,
25. Workshop on Patent Awareness at Annamalai University on 24.04.2000.
26. Workshop on Internet& its applications at Periyar Maniammai College of Technology for Women, Vallam on 20 & 21.01.2000
27. Pharmacy Council of India – Golden Jubilee celebrations held at Chennai on 21<sup>st</sup>, July 2000.
28. 4<sup>th</sup> National convention of Association of Pharmaceutical Teachers of India at Ramakrishna Institute of Paramedical Sciences, Coimbatore on 4<sup>th</sup>& 5<sup>th</sup> December 1999.
29. Curriculum development Workshop on Education of Bio Technology in India at IIT, Madras 23.03.1999.
30. International Seminar on Recent Trends in Pharmaceutical Sciences, J.S.S.College of Pharmacy, Ootacamund, 18<sup>th</sup> – 20<sup>th</sup> Feb, 1995.
31. 47<sup>th</sup> Indian Pharmaceutical Congress at Vishakapatnam, 27-29 Dec 1995.
32. 46<sup>th</sup> Indian Pharmaceutical Congress at New Delhi 23 – 25, December, 1994.

### ***RESEARCH WORK DONE***

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#### **1. RESEARCH PROJECTS SUPERVISED PH.D/M.PHARM/M.TECH/B.TECH**

Number of Ph.D Awarded: **11** (Thesis Submitted – **1**, In progress - **11**)

Number of P.G Projects guided: **85** (In progress - **1**)

Number of U.G Projects guided: **17**

### ***CONFERENCE SEMINARS ORGANISED***

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1. DST and TEQIP II sponsored National Conference on Recent Strategies in Herbal Research – An Experimental Approach organized by Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli on 19th & 20th Sep 2014.

2. “Workshop on Sophisticated Spectroscopic Equipments” , 08-10<sup>th</sup> May 2014 organized by DST sponsored National Facility for Drug Development for Academia, Pharmaceutical and Allied Industries, at Anna University, BIT campus, Tiruchirappalli
3. NanoBio Collaborative International Conference 27-29<sup>th</sup> , July 2013 jointly organised with Nanomedicine Research Centre, University of South Florida, USA
4. TEQIP II sponsored faculty development program on “Current developments in Life Sciences: an interdisciplinary approach (CDLS-2013)” organized by Department of Pharmaceutical Technology, Anna University, BIT campus, Tiruchirappalli on 19/08/2013.
5. One day seminar on Research Methodology on 27.08.2011 at Anna University of Technology, Tiruchirappalli.
6. Summer School on “Current Developments in Biological, Nano and Pharmaceutical Technology” 05.04.2010 to 18.04.2010 at Anna University of Technology, Tiruchirappalli (10 participants)
7. DST Sponsored Recent Trends and Applications of Nanotechnology in Pharmacy & Biology, 21<sup>st</sup> & 22<sup>nd</sup> Jan 2010 at Anna University Tiruchirappalli. (293 participants)
8. Pharmaceutical Engineering International E-symposium, 3<sup>rd</sup> March, 2006 at Bharathidasan University, Tiruchirappalli
9. Contract Research and Patent Rights National seminar, 24<sup>th</sup> Feb, 2006 at Bharathidasan University, Tiruchirappalli
10. Pharma Innovations National symposium, 5<sup>th</sup> & 6<sup>th</sup> Jan, 2006 at Bharathidasan University, Tiruchirappalli
11. Recent Advances in Herbal Technology , AICTE-sponsored Staff Development Programme (SDP), 16<sup>th</sup> to 30<sup>th</sup> Nov, 2004 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
12. Pharmacology & Toxicology – An Experimental & Clinical Approach Workshop, 26<sup>th</sup> Feb, 2004 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
13. Emerging Trends in Medicinal Plants, Workshop, 25<sup>th</sup> Feb, 2004 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
14. Careers in Pharmacy Workshop, 7<sup>th</sup> & 8<sup>th</sup> Aug, 2003 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
15. Women Entrepreneurship Development Training Workshop, 20<sup>th</sup> to 26<sup>th</sup> Mar, 2003 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
16. Medicinal Plants – Prospects and Challenges Workshop, 21<sup>st</sup> & 22<sup>nd</sup>, Dec, 2002 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
17. Health & Hygiene Workshop for School students, 28<sup>th</sup> Oct to 1<sup>st</sup> Nov 2002 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
18. Health care Workshop for School students, 1<sup>st</sup> to 7<sup>th</sup> Jan 2002 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli
19. Medical Detailing and Drugs Marketing Workshop for Working Pharmacists, 27<sup>th</sup> & 28<sup>th</sup> Feb, 1998 at Periyar College of Pharmaceutical Sciences for Girls, Tiruchirappalli

### ***PROFESSIONAL MEMBERSHIP***

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- National advisory member- International conference on ‘Drugs discovery and development from natural resources’ on 5<sup>th</sup> and 6<sup>th</sup> February 2014 at Regional Institute of paramedical and nursing sciences (RIPANS), Aizawl, Mizoram.
- Member (2013-2016) Board of Studies –Faculty of Technology, Anna University, Chennai
- Member (2013-2015) Board of Studies II for M.Sc – Chettinad Academy of Research and Education, Kancheepuram.

- Member, Board of Governors, Anna University, BIT Campus , Tiruchirappalli.
- Member, Board of studies in Pharmacy - Annamalai University, Chidambaram.
- Member (1999-2005) Senate -The Tamilnadu Dr. M.G.R Medical University, Chennai
- Member (2001 – 2003) Board of Studies (Pharmacy) -The Tamilnadu Dr.M.G.R. Medical University, Chennai.
- Member (19.03.2004 -04.03.2005) - Faculty of Pharmacy -The Tamilnadu Dr.M.G.R. Medical University, Chennai
- Member (2003-2005) Board of Studies (Pharmaceutical Engineering & Technology), Bharathidasan University, Trichy
- Recognized Guide for PhD-Bharathidasan University, Trichy ; The Tamil Nadu Dr. M. G. R. Medical University, Chennai
- Member, Institutional Animal Ethical Committee (IAEC) – Bharathidasan University, Trichy; KAPV Govt.MedicalCollege, Trichy
- Chairperson, Institutional Animal Ethical Committee (IAEC) –Anna University , BIT Campus,Tiruchirappalli
- Member ( 2000 – 2003)- N.S.S. Advisory committee - The Tamilnadu Dr.M.G.R.Medical University, Chennai
- Life member - Association of Pharmaceutical Teachers of India (TN/LM 135)
- Life member - Indian Association of Biomedical Scientists (L 408 )
- Associate Life Member – Indian Hospital Pharmacist Association (ALM 50044 )
- Life member - Indian Pharmaceutical Association (TN/MDS/LM/0195)
- Life member - Indian Society for Technical Education (LM/34360)
- Life member - Indian Pharmacists Association

### **TRIPS ABROAD**

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- March 2007 - March 2008  
Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center, College of Medicine, University of South Florida, Tampa, Florida 33612USA
- August 2008 - November 2008  
Joy McCann Culverhouse Airway Disease and Nanomedicine Research Center, College of Medicine, University of South Florida, Tampa, Florida 33612USA.
- Ph.D External Viva voce Examiner – The Nottingham University, Malaysia. 26-28<sup>th</sup> Nov 2012