Dr. Anil K. Philip

Associate Professor and Associate Dean

School of Pharmacy.....

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Teaching Philosophy-

I believe teaching is an art; while nobody's born a teacher, we strive towards achieving excellence. Do I believe in societal education? Yes, I do. I believe that teaching is one of the primary ways of achieving it. The information we gather as researchers and practitioners are valuable when shared. Teaching is not about having a regular monologue session; it`s a dialogue session. When you teach, you interact with students. This makes the subject interesting as it helps the students to share his thoughts on it. I try to bring energy to the class. If I can't do that, why should I expect my students to be energetic? As a teacher, I have a moral responsibility of teaching my subject and satisfying my student's query. I believe one should not avoid a student's query but should solve the query in a manner they understand, and try not to confuse them. Over the years, my teaching methods have changed to adapt the postgraduate and undergraduate scholars all having different mindsets and learning abilities. However, a common feature was the more I interacted with the students, the more they learned. My teaching aim has been in developing the concept behind a particular topic. For this, I use visual aids, flash presentations, and doodle videos, especially when teaching junior classes. Giving creative assignments helps to preserve the student's interest on the subject. A five-minute revision of the previous class, a brief topic introduction, and ending remarks in the last five minutes are some of the methods; I have followed successfully. I believe teachers could play an important role in a student's learning curve.

Position- Associate Professor in Pharmaceutics

Qualification- Ph.D. in Pharmacy

Area of Specialization- Pharmaceutics

Biography –

Dr. Anil Philip is currently working as Associate Dean (Head), School of Pharmacy, University of Nizwa, Oman. Among other credentials, he also serves as a member of the HSS sectorial grant committee of The Research Council, Oman. His research objectives and achievements have been in controlling/modifying the release of small/large molecules targeted to GI space using phase transited delivery systems. He has worked extensively in the field of controlled/ modified drug release systems, and possess rich experience in digging the root cause and finding solutions thereof for superior drug delivery systems. Currently, his lab focuses on developing nano drug delivery system, which can be targeted to the various body organs. He has guided more than 19 Masters Students in areas of targeted drug delivery.

Awards-

Research Council Funding ~ 75,000 OMR/-

Student got gold medal for the best poster in the Ministry of Health Conference

Research Activities

- Research Interests

Targeted Drug Delivery

Simulation Pharmacokinetics

Nanoformulations

Statistical Design

- Publications

Article:

1. Global, regional, and national incidence of six major immune-mediated inflammatory diseases, findings from the Global Burden of Disease Study 2019, eClinicalMedicine-The Lancet , 2023

2. Comparing the effectiveness of pterostilbene and sitagliptin on modulating inflammatory levels and inducing autophagy to improve atherosclerosis outcome: A preclinical study in rabbits, F1000Research (Taylor and Francis), 2023

3. Samuel BA, Mohammed BI, Philip AK. Phase transited asymmetric membrane floating nanoparticles: a means for o better management of poorly watersoluble drugs, DARU Journal of Pharmaceutical Sciences, 2021, https://doi.org/10.1007/s40199-020-00382-5

4. Kriplani P, Pathak K, Philip A. Preparation and Evaluation of `3 Cap` Pulsatile Drug Delivery System of Ramipril, Cardiovascular and Hematological Agents in Medicinal Chemistry, 2020, E-Pub Ahead of Print, doi:10.2174/1871525718666200528140527.

5. Philip AK. Chronopharmaceutics-The future of drug delivery, EC Pharmacology and Toxicology, 2019, 7 (10), 1090. (Editorial)

6. Mishra SK, Philip AK, Pathak K. Passage delaying microbeads for controlled delivery of loratadine. PDAJournal of Pharmaceutical Science and Technology, 2008; 68: 421-428.

7. Singh J, Philip AK, Pathak K. Optimization studies on design and evaluation of orodispersible pediatric formulation of indomethacin. AAPS PharmSciTech. 2008; 9(1): 60-66.

8. Sharma V, Philip AK, Pathak K. Modified polysaccharides as fast disintegrating excipients for orodispersible tablet of roxithromycin. AAPS PharmSciTech. 2008; 9(1): 87-94.

9. Philip AK. Osmotically regulated flow of flurbiprofen through in situ formed asymmetric membrane capsule. Current Drug Delivery, 2008; 5(2): 127-132.

10. Philip AK, Pathak K., Wet process induced phase transited drug delivery system: A means for achieving osmotic, controlled and level A ivivc for poorly water soluble drug. Drug Development and Industrial Pharmacy, 2008; 34(7): 735-743.

11. Philip AK, Dubey R, Pathak K., Optimizing delivery of flurbiprofen to the colon using a targeted prodrug approach. Journal of Pharmacy and Pharmacology, 2008; 60 (5): 607-613.

12. Philip AK, Pathak K, Shakya P., Asymmetric membrane in membrane capsules: A means for achieving delayed and osmotic flow of cefadroxil. European Journal of Pharmaceutics and Biopharmaceutics, 2008; 69(2): 658-666.

13. Singh H, Philip AK, Pathak K. Multiple unit asymmetric membrane capsule: A means for delivery of highly water soluble drug. International Journal of Drug Delivery and

Technology, 2009; 1(1): 9-16.

14. Philip AK. Colon-specific delivery: An histomorphological analysis & targeted prodrug approach. Drug Delivery Technology, 2009; 9 (4): 58-62.

15. Philip AK, Singh N, Pathak K., Egg shell membrane as a substrate for optimizing in-vitro transbuccal delivery of glipizide. Pharmaceutical Development and Technology, 2009; 14(15): 540-547.

16. Philip AK, Dabas S, Pathak K. Optimized prodrug approach: A means for achieving enhanced anti-inflammatory potential in experimentally induced colitis. Journal of Drug Targeting, 2009, 17(3), 235-241.

17. Philip AK, Philip B. Asymmetric membrane capsule: A means for controlled drug release even with a membrane defect. Tablets and Capsules, 2010, July7th, Desktop reference

18. Philip AK, Philip B. Phase transited and vapor induced dual capsular system (DCS) for achieving delayed and osmotic release of cefadroxil. Pharmaceutical Development and Technology, 2010; 16(5): 457-65.

19. Philip AK, Philip B. Phase transited asymmetric membrane capsule: A means for achieving delayed and controlled osmotic flow. Current Drug Delivery, 2010: 7(3): 230-237.

20. Philip AK, Philip B. In-situ phase transited asymmetric membrane capsule: A means for achieving delayed and osmotic release for pH solubility dependant drugs. PDA Journal of Pharmaceutical Science and Technology, 2011; 65(1): 32-41.

21. Philip AK, Philip B. Colon targeted drug delivery systems: A review on primary and novel approaches. Oman Medical Journal, 2010; 25 (2): 68-76.

22. Philip AK, Philip B. Chornopharmaceuticals: Hype or future of pharmaceutics. Current Pharmaceutical Design, 2011;17(15):1512-6.

23. Garg S, Pathak K, Philip AK, Puri D. Osmotically regulated two-compartment asymmetric membrane capsules for simultaneous controlled release of anti-hypertensive drugs. Scientia Pharmaceutica, 2012; 80: 229-250.

24. Jain A, Philip AK. Asymmetric membrane coated tablet: A means for delivery for poorly water-soluble drugs. Journal of Pharmacy Research, 2012; 5(3):1279-1283.

25. Philip B, Al Salmi A, Al Abri I, Al Azri, A, Philip AK. In-situ fiber optics analysis of microparticles of a poorly water soluble drug. International Journal of Pharmaceutical and Biological Archives, 2014; 5(3): 53 – 57.

26. Philip AK, Philip B, Al Senani H. Application of modified USP apparatus I and in situ fiber optic analysis for drug release from ibuprofen nanospheres. International Journal of Pharmacy and Pharmaceutical Sciences, 2014; 6 (9): 527-30.

27. Philip AK, Philip B. Direct-path and dip-probe fiber optics as alternatives for analyzing controlled drug release, Tablet and Capsules: Solid Dose Digest, 2016, 8 (8): 1-3.

28. Mohammed SA, Hassan F, Philip AK, Allateef MA, Yousif E, Role of aromatase and Anastrozole in Cancer Treatment, International Journal of Pharmaceutical Sciences Review and Research, 2016, 40 (1): 135-140.

29. Mohammed SA, Hassan F, Philip AK, Hameed AA, Yousif E. Chemotherapy of breast cancer by heterocyclic compounds, International Journal of Pharmaceutical Sciences Review and Research, 2016, 41(2): 225-231.

30. Hassan F, Mohammed SA, Philip AK, Hameed AA, Yousif1E, Gold (III) complexes as breast cancer drug, Systematic Reviews in Pharmacy, 2017; 8(1):76-79.

31. Philip AK, Philip B, Fiber optics in dissolution testing. Tablet and Capsules: Solid Dose Digest, 2019, 1 (28): 1.

32. Weli AM, Harrasi AA, Baiti NHA, Philip AK, Hossain A, Gilani SA, Banioraba N, Biological and toxicological evaluation of aerial parts extracts of locally grown cleome austroarabica, Journal of King Saud University, 2019, Article in Press, pp 1-5.

Book Section:

1. Pulmonary Pharmacokinetics and Biophysics, Philip AK, Samuel BA, Ashraf K and Faiyazyuddin M, 2021,

2. Chapter 9: Advanced Drug Delivery Systems in Lung Cancer, Philip Ak, SAmuel BA, 2021, https://doi.org/10.1016/C2020-0-02697-6

3. Targeted Delivery of Drugs to the Colon, Anil K. Philip and Sarah K. Zingales: Drug Delivery: Principles and Applications, Second Edition, Wiley, DOI: 10.1002/9781118833322.ch18

Faculty Administrative Experience

2017 - Present: Associate Dean - University of Nizwa

2014 - Present: FURAP General Supervisor - University of Nizwa

Community Services

May 2020: Member, Omani Exam for Pharmacy Specialists

Award and Recognitions

- 2021 US Patent (Granted) 11,013,748 -Budesonide Nano Prodrug
- 2018 Patent (Granted)- 294829: Osmotic Controlled Release Oral Formulation of Lycopene with Enhanced Solubility

Ref.: https://www.unizwa.edu.om/staff/chs/philip