

September 20, 2016

To: Graduate Students in Pharmaceutics

From: Dr. Nina Isoherranen

Re: PCEUT 583 (journal club) Schedule for Autumn Quarter 2016

Thursday meetings will be at 1:45 p.m. at T635.

Journal club schedules and papers to be discussed will be posted online at:

<https://canvas.uw.edu/courses/1068594>

Following is the schedule of presenters and discussion topics for this quarter’s Journal Club Meeting. For this quarter we will be focusing on **Classic PK papers**

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| **DATE** | **TOPIC and SPEAKER** |
| **Sept. 29** | General Introduction, Nina Isoherranen |
| **Oct. 6** | Well stirred model and hepatic clearance 1, Vineet Kumar and David Wagner  “A Physiological approach to hepatic drug clearance” Wilkinson and Shand CPT 18:377-390 1975 |
| **Oct. 13** | Well stirred model and hepatic clearance 1, Lindsay Henderson and Jake Kraft  “Hepatic Clearance of Drugs I. Theoretical Considerations of a wellstirred model and a parallel tube model. Influence of hepatic blood flow, plasma and blood cell binding, and the hepatocellular enzymatic activity on hepatic drug clearance” Pang and Rowland J Pharmacokinet. Biopharm. 5: 625-653 1977 |
| **Oct. 20** | Metabolite Kinetics, David Plotnik and Lyrialle Han  “Metabolite pharmacokinetics: the area under the curve of metabolite and the fractional rate of metabolism of a drug after different routes of administration for renally and hepatically cleared drugs and metabolites.” Pang KS [J Pharmacokinet Biopharm.](http://www.ncbi.nlm.nih.gov/pubmed/7310645) 9:477-487 1981 |
| **Oct. 27** | Metabolite Kinetics, Justin Lutz, Quantitative Pharmacology, Gilead San Fransisco |
| **Nov. 3** | Distribution kinetics 1. Prediction of Distribution kinetics Jing Jing and Gabby Patilea  “Physiologically Based Pharmacokinetic Modelling 2: Predicting the Tissue Distribution of Acids, Very Weak Bases, Neutrals and Zwitterions” Rodgers and Rowland J. Pharm Sci. 95, 1238-1257 2006 |
| **Nov. 10** | Distribution kinetics 2. Two compartment kinetics and elimination during distribution phase. Marc Vrana and Faith Stevison  “Gentamicin Disposition and tissue accumulation on multiple dosing Schentag, Jusko et al J Pharmacokinet Biopharm 5 559-577 1977 and “Renal Clearance and Tissue accumulation of gentamicin” Schentag and Jusko CPT 22. 364-370 1977 |
| **Nov. 17** | Noncompartmental Models and MRT. Olena Anoschcenko and Kevin Lidberg  General treatment of mean residence time, clearance, and volume parameters in linear mammillary models with elimination from any compartment Nakashima and Benet [J Pharmacokinet Biopharm.](http://www.ncbi.nlm.nih.gov/pubmed/3199315) 1988 Oct;16(5):475-92. |
| **Nov. 24** | **Holiday – No Presentation** |
| **Dec. 1**  **Dec. 8**  **Dec. 15** | Pharmacological Response Alenka Jaklic and Mackenzie Bergagnini  “Kinetics of pharmacologic effects” Levy G CPT 7:362-372 1966  Analysis of PK data, harmonic versus arithmetic means Savannah Kerr and Antonio Lopez “Comparison of harmonic mean versus arithmetic mean clearance values” Schaaf, Lam, Perrier. J Pharm Sci 427-429 1986 and “Estimation of variance for harmonic mean half-lives ” Lam, Hung and Perrier J Pharm Sci 74 229-231 1985  Rotation Student Presentations (Brian Chapron to chair) |
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