BioTech 84:
Pharmacometric Analyses in Clinical Trials using R

Monday

9:00am – 9:15am Building 31/6C Room 5	**General Introduction**	Jithesh Veetil (FAES@NIH) & Cody J. Peer (NCI)
9:15am – 10:15am Building 31/6C Room 5	**Introduction to R**	Cody J. Peer (NCI)
10:15am – 10:30am	**BREAK**	
10:30am – 12:00pm Building 31/6C Room 5	**Introduction to Pharmacokinetics (PK)**	Cody J. Peer (NCI)
12:00pm – 1:00pm	**LUNCH**	
1:00pm – 3:00pm Building 31/6C Room 5	**Using R for PK**	Cody J. Peer (NCI)
3:00pm – 3:15pm	**Break**	
3:15pm – 4:00pm Building 31/6C Room 5	**Clinical Trial Design Hands-on Rotation**	Cody J. Peer (NCI)
4:00pm – 4:30pm Building 31/6C Room 5	**Summary, and Questions**	Cody J. Peer (NCI)

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Tuesday

9:00am – 10:15am Room 162	**Day 1 Recap/ Overflow** **Understanding Clinical Trial Data w/ Stats**	Cody J. Peer (NCI)
10:15am – 10:30am	**BREAK**	
10:30am – 12:00pm Room 162	• **Exposure/Response modeling I** • **Linear models** • **Continuous vs Continuous (Linear Regression)**	Cody J. Peer (NCI)
12:00pm – 1:00pm	**LUNCH**	
1:00pm – 2:30pm Room 162	**Exposure/Response modeling II-A**	Cody J. Peer (NCI)
2:30pm – 2:45pm	**BREAK**	
2:45pm – 4:15pm Room 162	**Exposure/Response modeling II-B** • **Logistic regression** • **Bernoulli Distributions** • **GLM**	Cody J. Peer (NCI)
4:15pm – 4:30pm Room 162	**Summary and Questions**	Cody J. Peer (NCI)

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9:00am – 9:30am Room 162	**Day 2 Recap, Overflow**	
9:30am – 10:30am Room 162	• **Exposure/Response modeling III-A** • **Ordinal data** • **Proportional Odds Model**	Cody J. Peer (NCI)
10:30am – 10:45am	**BREAK**	
10:45am – 12:00pm Room 162	**Exposure/Response modeling III-A (cont)**	Cody J. Peer (NCI)
12:00pm – 1:00pm	**LUNCH**	
1:00pm – 2:30pm Room 162	• **Exposure/Response modeling III-B** • **Count (longitudinal) data** • **GEE and GLMM**	Cody J. Peer (NCI)
2:30pm – 2:45pm Room 162	**BREAK**	
2:45pm – 4:30pm Room 162	**Exposure/Response modeling III-B (cont)**	Cody J. Peer (NCI)
4:30pm Room 162	**Summary and Questions**	Cody J. Peer (NCI)

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9:00am – 10:15am Room 162	**Exposure/Response modeling IV** • **Survival Data**	Shamir Kalaria
10:15am – 10:30am	**BREAK**	
10:30am – 12:00pm Room 162	**Cox Models**	Shamir Kalaria
12:00pm – 1:00pm	**Lunch**	
1:00pm – 3:00pm Room 162	**Making Go/No Decisions** **Review / Workshop Summary**	Cody J. Peer (NCI)
3:00pm – 3:15pm Room 162	**Final comments, Certificates, and Feedback**	Cody J. Peer (NCI)