

Bridging Pharmacokinetic/ Pharmacodynamic Relationships in Oncology with Biomarker Modeling

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Dr. Bihorel has been trained as a pharmacist from the University of Paris-Descartes in France. As a Ph. D. student, she designed and executed *in vitro* and *in vivo* experiments, and developed mechanism-based mathematical models for erythropoietin. As a postdoctoral associate, she extended her expertise to PK/PD models in the fields of hematology, rheumatology, diabetes, and oncology drug delivery. This past year, she developed various population PK/PD models including, the evaluation of Sunitinib efficacy and toxicity in patients with hepatocellular carcinoma, the comparison of α 2-adrenergic receptor agonists effects in the horse, the assessment of the differences in the platelet lifespans between newborn and adult mice, and the effects of Canakinumab in patients with active rheumatoid arthritis. Currently, she is interested in the development of quantitative systems pharmacology models that capture drug- and disease- interactions. She has a considerable teaching experience in PK and PD including hands-on training with various softwares.