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Modeling HBV kinetics during infection and treatment in primary human hepatocytes

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Data driven modeling of hepatitis B virus (HBV) kinetics during early infection and treatment in primary human hepatocytes (PHH) is in its infancy. Using recent HBV kinetic data in PHHs, we developed a mathematical model to provide insights into the dynamics of HBV infection and treatment in primary human hepatocytes (PHHs). I will present the measured intracellular and extracellular HBV kinetics and our modelling results that provide insights into HBV-host dynamics during infection and treatment.