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**Using mathematical modeling to tailor the administration of  
chemotherapy and G-CSF**

In this talk I will briefly describe recent work that we have carried out using a mathematical model for the regulation of human hematopoiesis to investigate optimal delivery strategies for granulocyte colony stimulating factor (G-CSF) in the treatment of patients with cyclical neutropenia, and to aid patients in the post-chemotherapy phase. Additionally I will discuss optimal ways to deliver chemotherapy.