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CHALLENGES AND OPPORTUNITIES IN BIOPHARMACEUTICAL  
MANUFACTURING CONTROL

Moo Sun Hong , Kristen A. Severson , Mo Jiang , Amos E. Lu ,  
J. Christopher Love , Richard D. Braatz

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- A perspective is provided on the control of biopharmaceutical manufacturing
- Microscale and modular plug-and-play unit operations are technologies of interest
- The uncertain nonlinear systems involve mixed continuous-discrete operations
- Process data analytics and adaptive and hybrid control strategies are discussed
- Novel protein separation methods are discussed that may significantly reduce costs

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