

Research project and supervisory team

Supervisory Team	Jesse Zhu Yuanyuan Shao Yuqing Ye
Short introduction & description of research project	<p><u>Project title:</u> Comprehensive investigation on the deposition, dissolution, and absorption as well as in-vivo pharmacokinetics and pharmacodynamics of the inhalable macromolecules</p> <p>Biologics delivery by pulmonary route has been proven feasible and effective. As an alternative to the non-parenteral route, pulmonary-targeted delivery of biologics shows promising potential in improving bioavailability and sparing dose. However, the deposition, dissolution, and absorption processes of macromolecules has not been systemically investigated.</p> <p>Therefore, in this project, series of macromolecules with varied properties with/without molecular cargos for drug loading will be engineered into inhalable size for further in-vitro and in-vivo aerodynamic behaviour studies.</p>
Contact points	Dr. Yuanyuan Shao yuanyuan.shao@nottingham.edu.cn