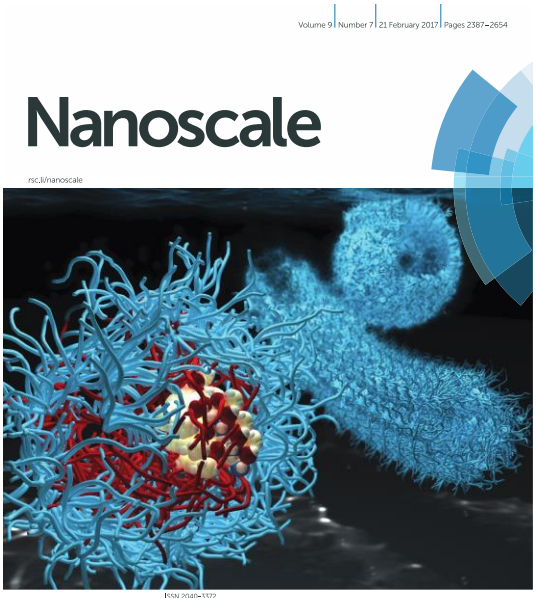
Beaucage Lab Takes January Cover of Nanoscale

Micelles assembled from copolymers can serve as a vehicles for drug transport to improve bioavailability and biodistribution**.** **Dr. Gregory Beaucage** and his group are



studying such polyalkylated copolymers and their use as nano-sized drug delivery systems. They found that the worm-like structure has advantages over an elliptical structure in that it significantly extends biological residence time. Further, addition of the target cancer drug changes the worm-like structure, impeding drug delivery. This knowledge of the structure is crucial for connecting physicochemical properties with pharmacokinetics and bioavailability and a picture of their polymer creation was featured on the January cover of Nanoscale (Royal Society of Chemistry).