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Jian Yang was born on September 20, 1987 in Huangshi, Hubei, P.R. China. She attended the Ezhou Senior High School, where she obtained her high school diploma in 2004. In the same year she started her study program of Biotechnology in Hubei Normal University and obtained her BSc degree in 2008. Next, she studied Life Science & Technology, both at the NanKai university and Tianjin International Biology Medicine United Academe. During the master program, she specialized in Functional Proteomics, with a focus on lead-drug screening supervised by Prof. Zihe Rao and Prof. Cheng Yang. She also did the internship in Institute of Biophysics, Chinese Academy of Sciences on *Improved Pooled ORF Expression Technology* supervised by Prof. dr. Ouyang songying and Prof. Zhijie Liu.

Jian obtained her Master's degree in 2012. With interests in scientific research, Jian started her PhD training in September 2012, described in this thesis, under supervision of Prof. Alexander Kros and Dr. René C.L.Olsthoorn in the Department of Supramolecular & Biomaterials Chemistry. She applied membrane fusion system using lipopeptides in the field of drug delivery. From October 2016, Jian continues her research into membrane fusion system as a post-doctoral-reasearcher in the same research group, and hopes to successfully publish more membrane fusion-related resources and methodologies in the future.