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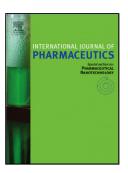
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## ACCEPTED MANUSCRIPT

# DESIGN AND SYNTHESES OF MONO AND MULTIVALENT MANNOSYL-LIPOCONJUGATES FOR TARGETED LIPOSOMAL DRUG DELIVERY

Adela Štimac, [a] Jelena Trmčić Cvitaš, [b] Leo Frkanec, [b] Oliver Vugrek, [b] and Ruža Frkanec\*[a]

Boc, t-butyloxycarbonyl; Boc-Lys(Boc)-Osu,  $N_a$ ,  $N_c$ -di-Boc-L-lysine hydroxysuccinimide ester; BSA, bovine serum albumin; Cbz, carboxybenzyl; CLRs, C-type lectin receptors; CRD, carbohydrate-recognition domain; Con A, Concanavaline A; DBU, 1,8-diazabicyclo[5.4.0]undec-7-ene; DCs, dendritic cells; DCM, dichloromethane; DLS, dynamic light scattering; DMF, N-dimethylformamide; DSPE, distearoyl phosphatidylcholine; EDC · HCl, 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride; Fmoc, 9-fluorenylmethyloxycarbonyl; HEPES, 2-[4-(2-hydroxyethyl)piperazin-1-yl]ethanesulfonic acid; HOBt, N-Hydroxybenzotriazole; HRMS, high resolution mass spectrometry; HPLC, high performance liquid chromatography; MR, mannose receptors; NLRs, NOD-like receptors; OD, optical density; PEG, poly(ethylene glycol); PRR, pathogen recognition receptors; QCM, quartz crystal microbalance; RLRs, RIG-I-like receptors; SAM, self-assembled monolayer; sulfo-NHS, N-hydroxysulfosuccinimide; TFA, trifluoroacetic acid; TLC, thin layer chromatography; TLRs, Toll-like receptors.

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