A Conjugate between Lqh-8/6, a Natural Peptide Analogue of Chlorotoxin, and Doxorubicin Efficiently Induces Glioma Cell Death

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Supplementary Data

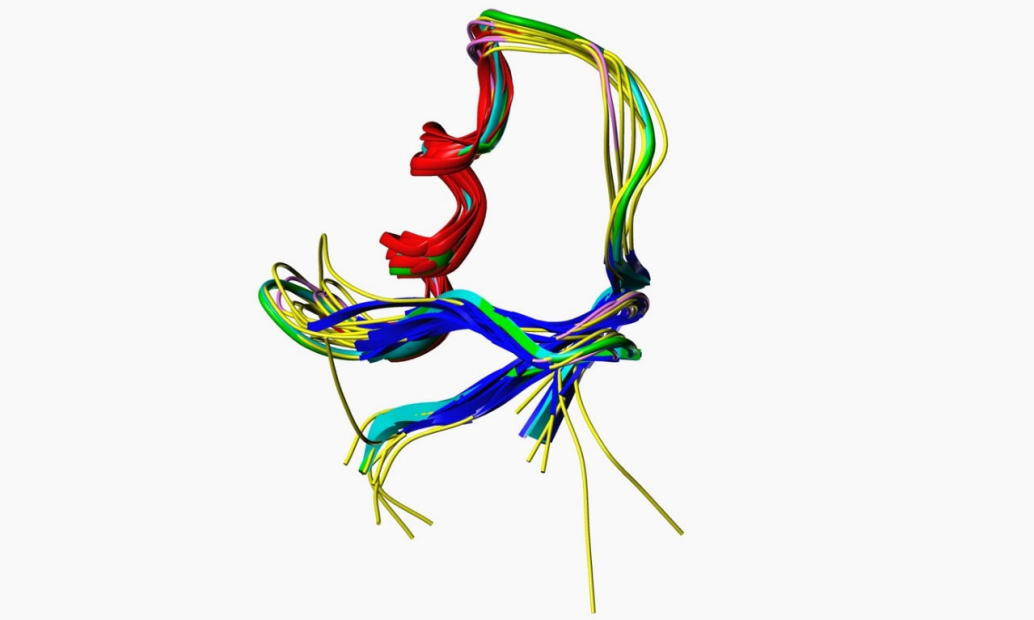

Figure S1. Overlay of the secondary structures of chlorotoxin and chlorotoxin-like peptides. Chlorotoxin is in cyan and Lqh-8/6 in green. The other peptides have the helix alpha in red, and the β-sheet structure is in blue.

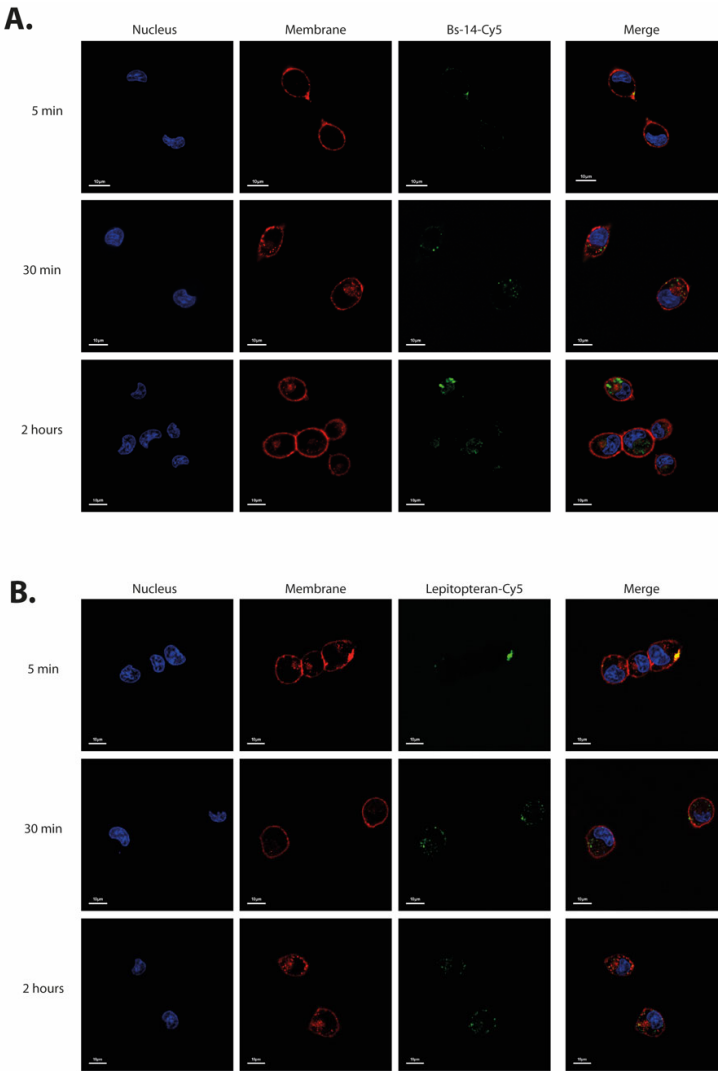

Figure S2. GBM F98 labelling with BS-14$_b$ or lepidopteran$_b$. (**A**) Confocal microscopy images illustrating the cell surface labeling and penetration of BS-14-strep-Cy5 into glioma F98 cells (red color). Incubation times were 5, 30 min and 2 hrs. Images were taken immediately after washout of the extracellular peptide. The plasma membrane is labeled with concanavalin-A-rhodamine (green color); the nucleus is labeled with Hoechst 34580 (blue color). (**B**) Confocal microscopy images illustrating the penetration of lepidopteran$_b$-strep-Cy5 into glioma F98 cells. Same conditions as in (**A**).

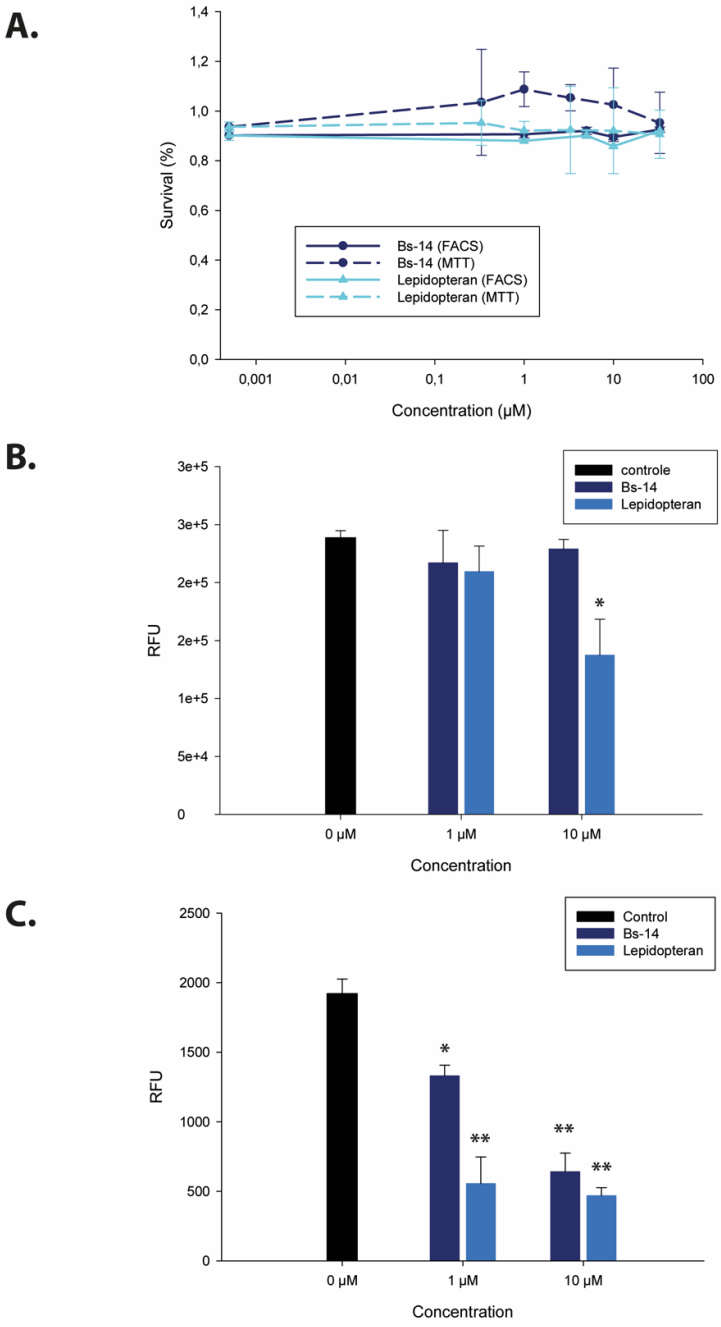

Figure S3. Functional effects of BS-14 and lepidopteran onto F98 cells in culture. (**A**) Lack of cell toxicity of BS-14 and lepidopteran as assessed by MTT assay and FACS. FACS toxicity results are represented by full lines, whereas MTT results are shown with dashed lines. (**B**) Effect of BS-14 and lepidopteran on F98 cell migration. (**C**) Effect of BS-14 and lepidopteran on F98 cell invasion. *, $p \leq 0.07$; **, $p \leq 0.05$.