Supplementary information

Liquid crystalline dimers containing a Cholesterol benzoate unit: smectic phase, chiral nematic phase and blue phase

Figure S1.

(a) $^1$H-NMR spectra of compound C-N-DN-4.
(b) $^1$H-NMR spectra of compound C-N-DN-12 (Recrystallization 1 time).
(c) $^1$H-NMR spectra of compound C-N-DN-12 (Recrystallization 3 times).
(d) $^1$H-NMR spectra of compound C-N.
Figure S2. FTIR spectra of C-N-DN-x (x=2,4,6,8,10,12,14)

Figure S3. Texture of the compounds.

(a) blue phase, cooling to 192 °C. (b) chiral nematic phase, cooling to 185 °C.
(c) Smectic and chiral nematic phase, cooling to 170 °C. (d) Smectic phase, cooling to 165 °C.
(e) Smectic phase, cooling to 163 °C. (f) Smectic phase, cooling to 161 °C.
(d-e in antiparallel liquid crystal cell).