

Electronic Supporting Information

Photoconductive Nile Red Cyclopalladated Metallomesogens

Andreea Ionescu,^{a,b} Nicolas Godbert,*^{a,b} Alessandra Crispini,^{a,c} Roberto Termine,^{a,d} Attilio Golemme,^{a,b,d} and Mauro Ghedini.^{a,b,d}

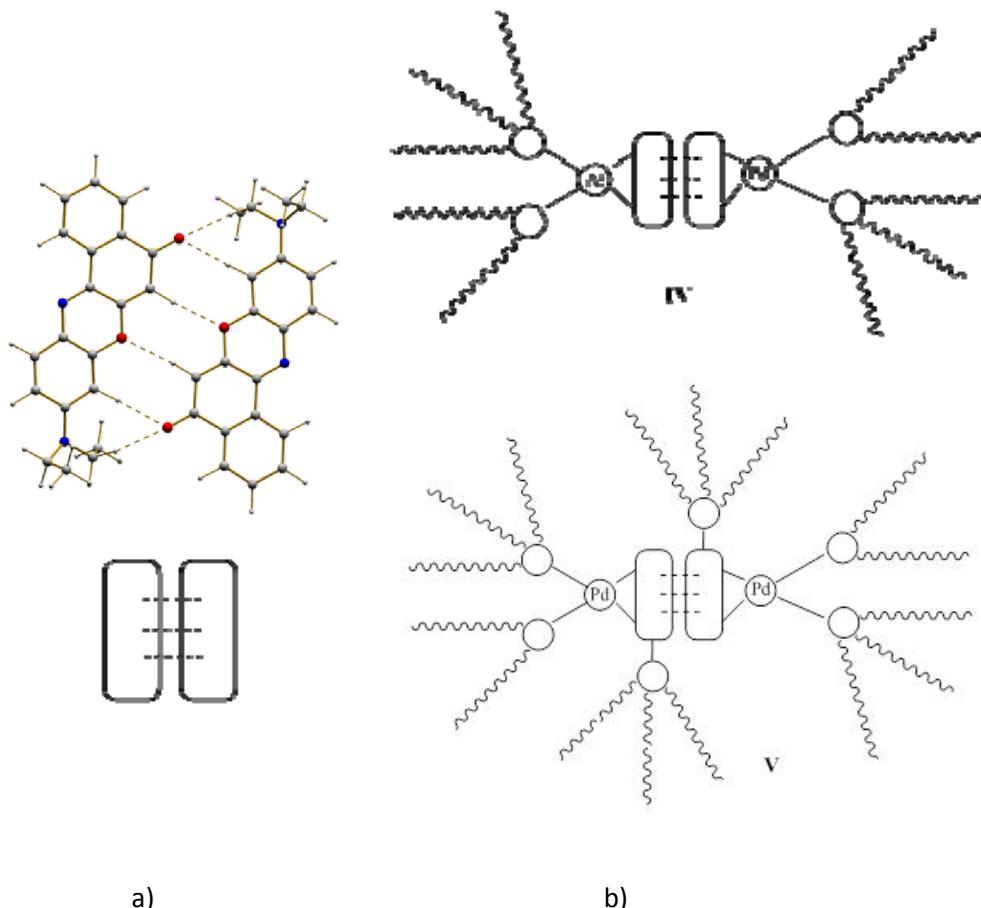
a) Centro di Eccellenza CEMIF.CAL, LASCAMM CR-INSTM, Unità INSTM della Calabria, I-87036 Arcavacata di Rende (CS), Italy

b) Dipartimento di Chimica – Università della Calabria, I-87036 Arcavacata di Rende (CS), Italy

c) Dipartimento di Scienze Farmaceutiche – Università della Calabria, I-87036 Arcavacata di Rende (CS), Italy

d) CNR-IPCF UOS di Cosenza – LiCryL c/o Dipartimento di Fisica, Università della Calabria, I-87036 Arcavacata di Rende (CS), Italy

Schematic representation of the dimeric pairs formed by the hydrogen bonds network



Scheme S1. a) Geometrically optimised structure and scheme of **H(NR)** dimer. Hydrogen bonds are represented in dashed lines (from 2.33 to 2.37 Å). b) Scheme of dimers **IV** and **V**.

¹H NMR spectrum of mixture 3a and 3b

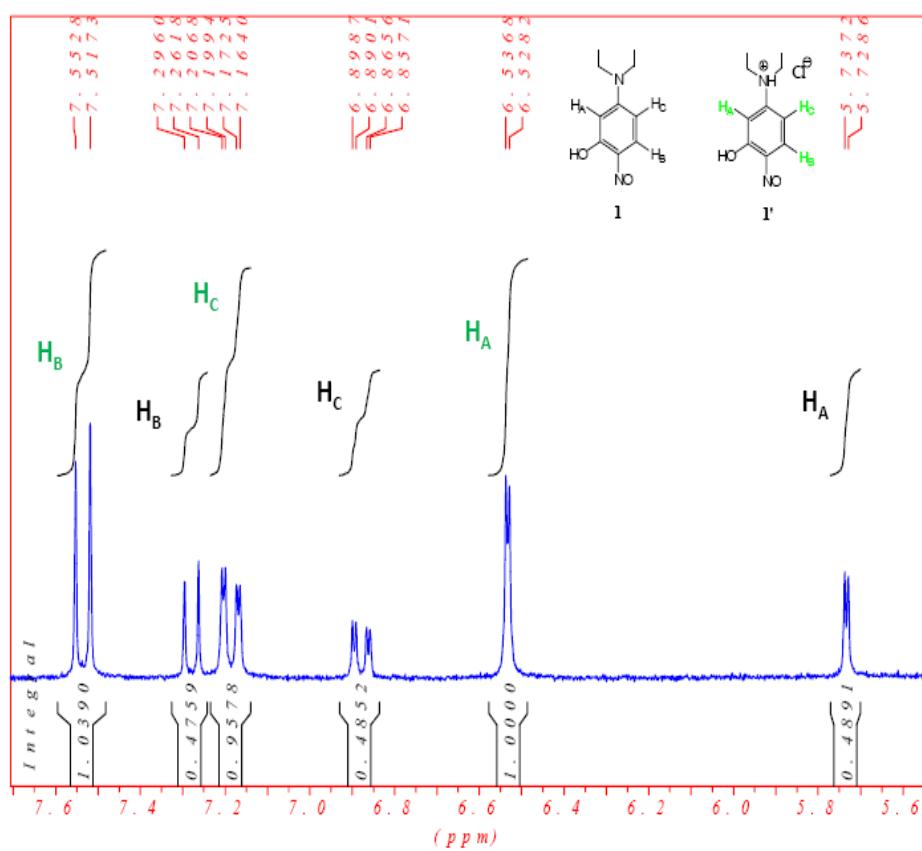


Figure S1. ¹HNMR of mixture 3a and 3b (aromatic region only)

Powder X-Ray diffraction patterns

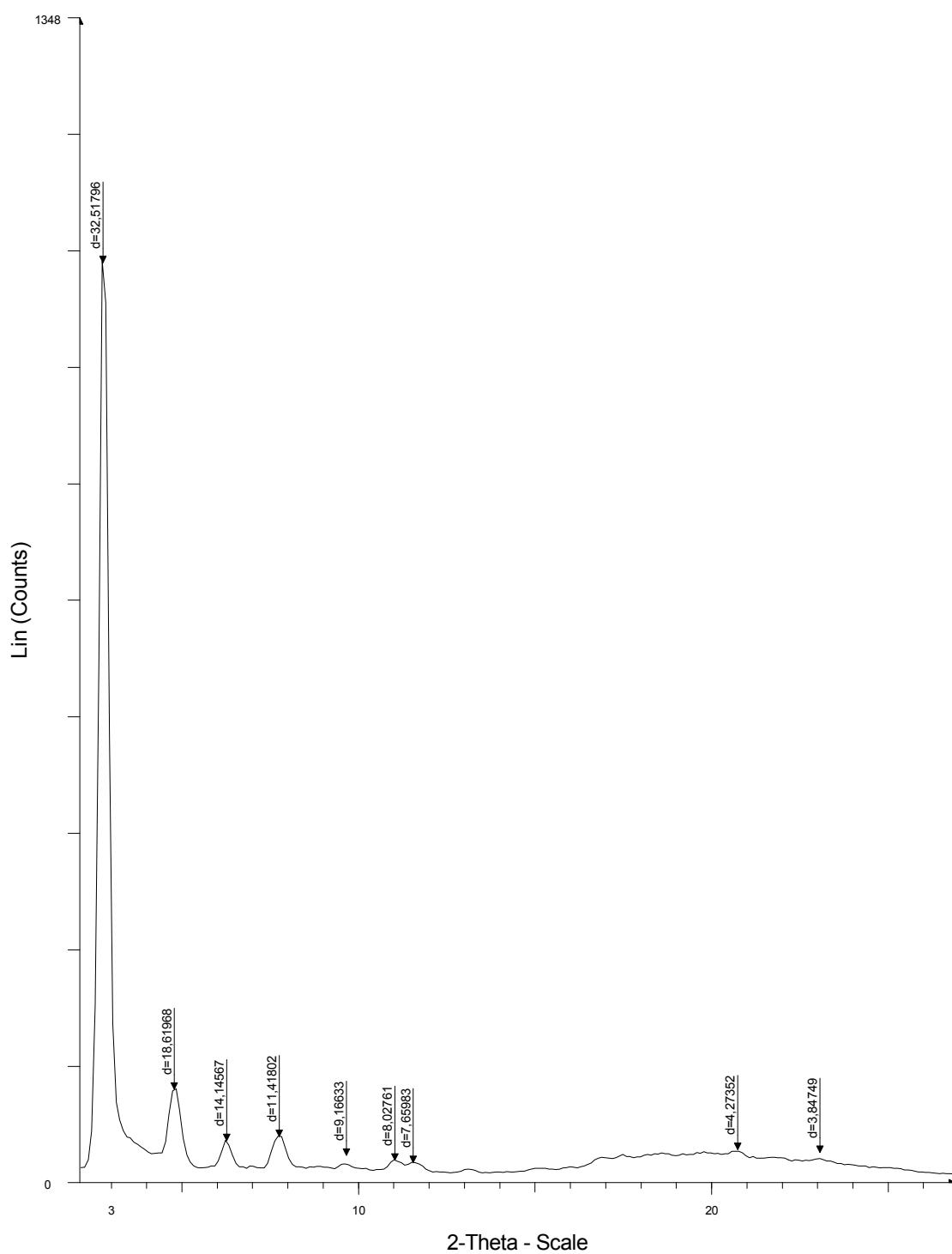


Figure S2. PXRD pattern of **IV** registered at 125°C on cooling from 160°C showing the highly ordered Col_r mesophase even at high temperature.

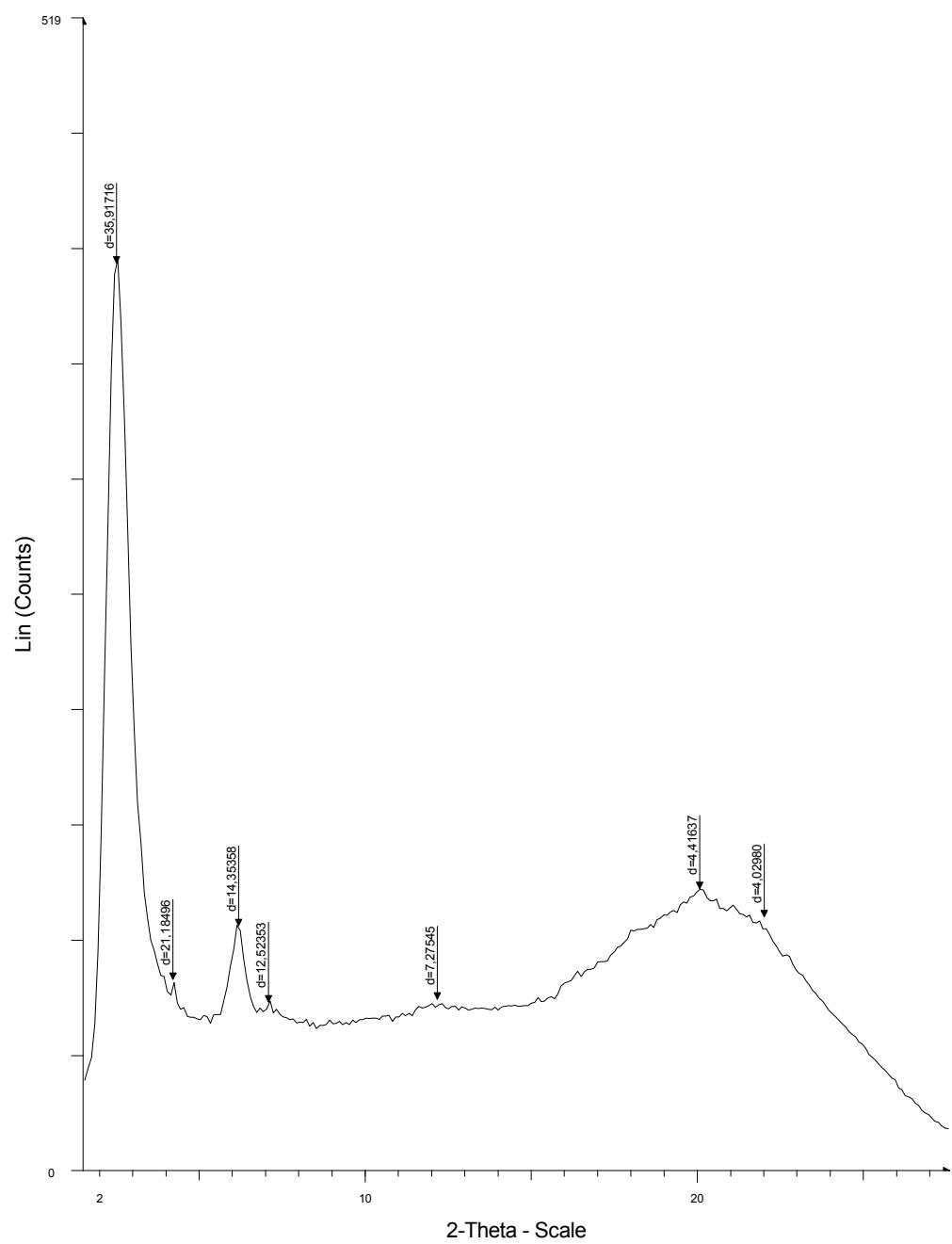


Figure S3. PXRD pattern of V registered at room temperature on cooling from 160°C showing the Colr mesophase obtained by thermal annealing at room temperature.

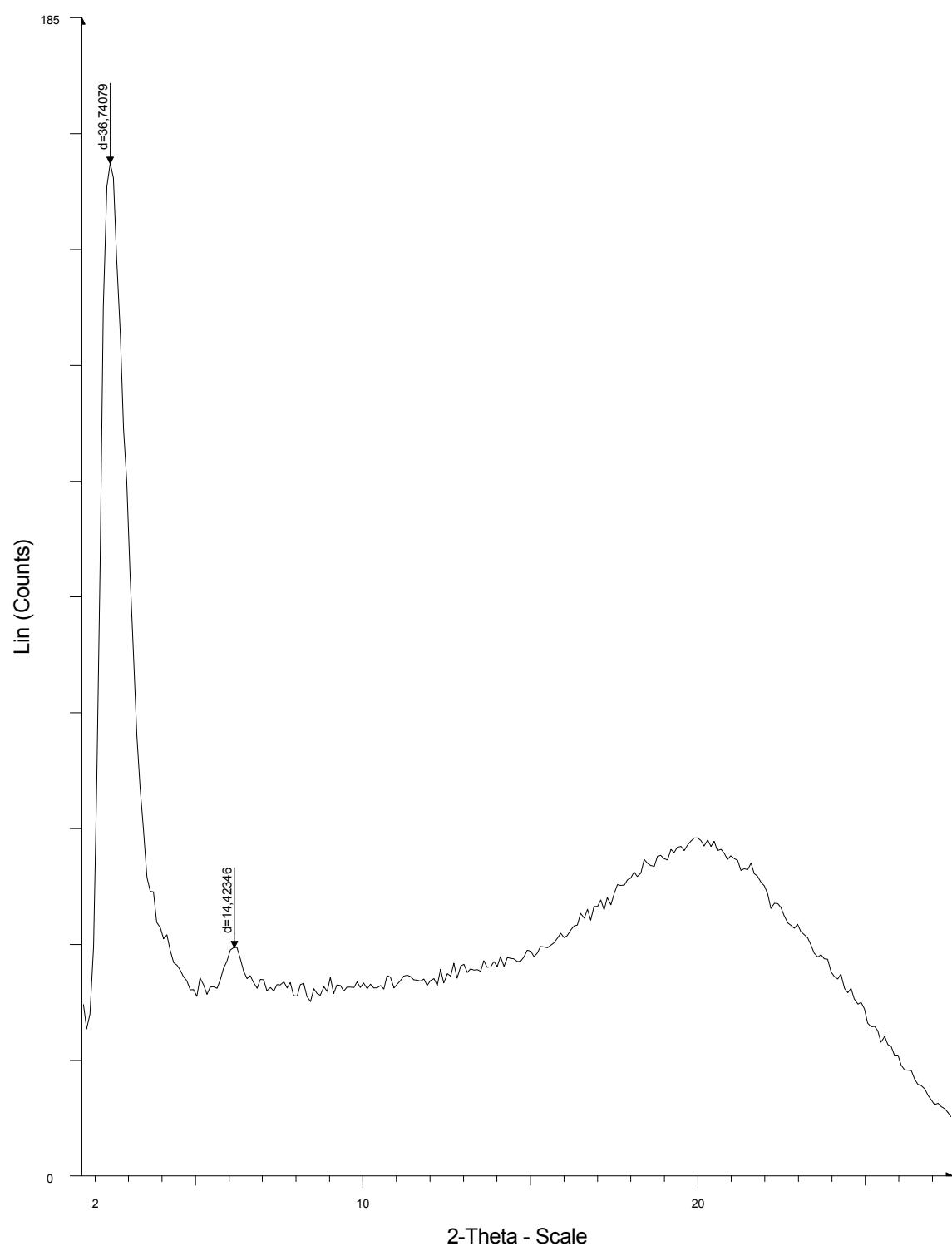


Figure S4. PXRD pattern of V registered at 70°C on second heating showing the disordered Col_r phase.

DSC traces

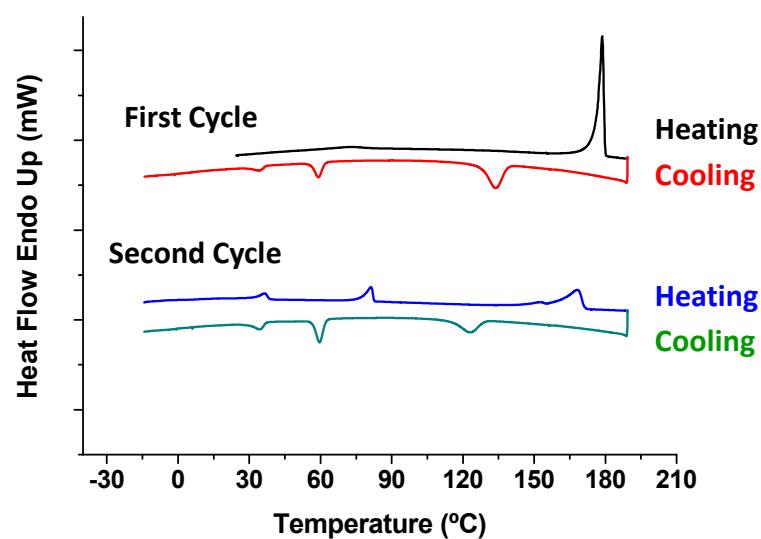


Figure S5. DSC traces of compound IV