

Analyzing the impact of the size of fluoro and chloro substituents on induced mesomorphism in hydrogen bonded liquid crystals

Sonali M K¹, Rajeev K Sinha², Silpa Elizabeth Peter¹, NV Anil Kumar¹, Nirmal Mazumder³, Sindhoora Kaniyala Melanthota³, Mohammed Azeezulla Nazrulla¹, Poornima Bhagavath^{1*}

¹Department of Chemistry, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal 576 104, Karnataka, India

²Department of Physics, Birla Institute of Technology Mesra, Ranchi-835215, Jharkhand, India.

³Department of Biophysics, Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India-576104

***Corresponding author**

Dr. Poornima Bhagavath,

Department of Chemistry,

Manipal Institute of Technology,

Manipal-576104

Karnataka, India

Email: poornima.nayak@manipal.edu

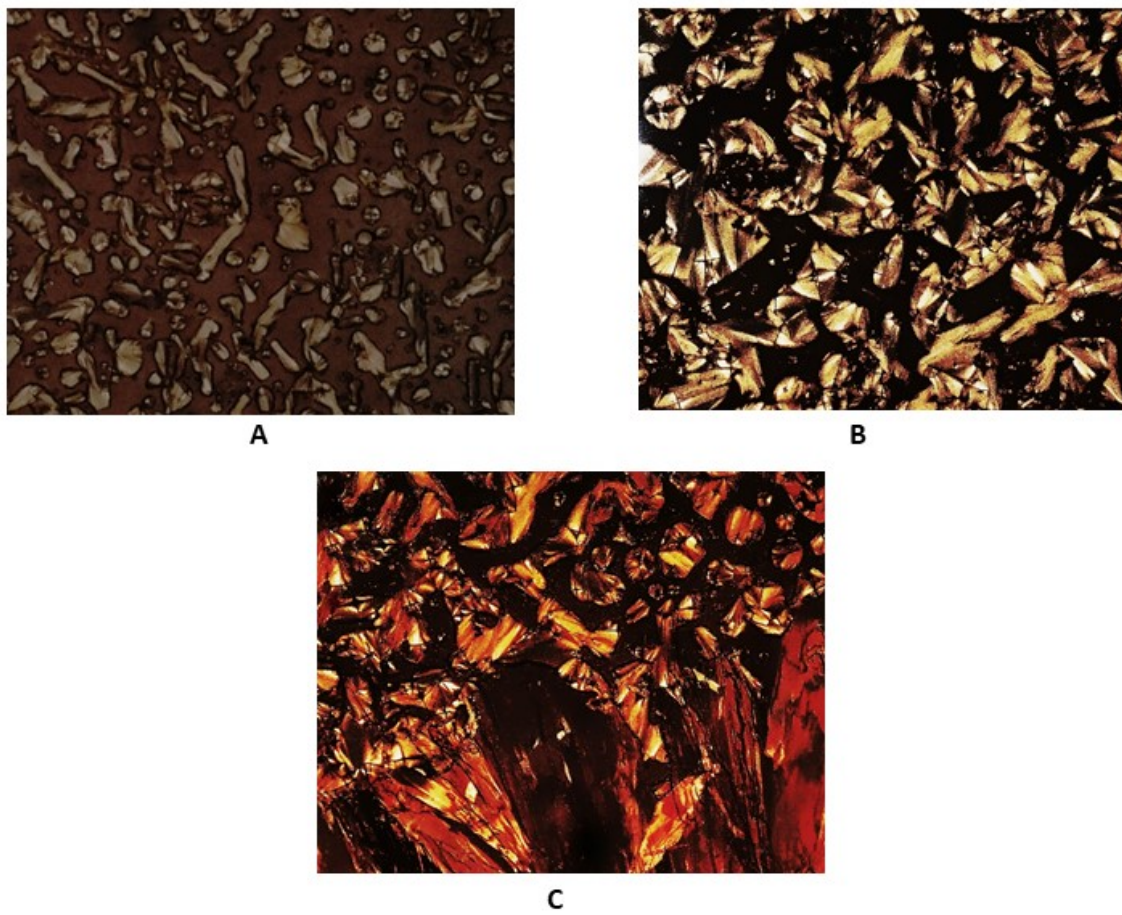


Figure-S1: Focal conic fans exhibited by P8:4FBA at (A) 91°C (B) 64°C and (C) 44°C



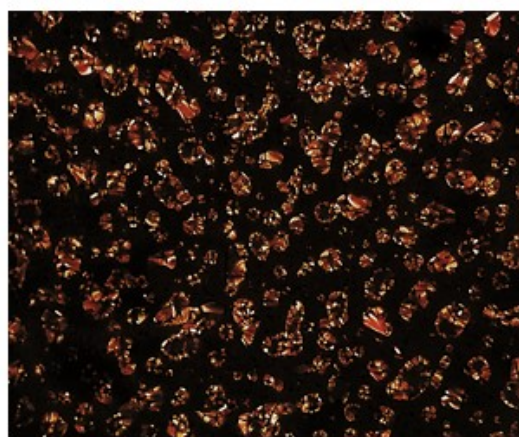
A



B



C



D

Figure-S2: Focal conic fans exhibited by (A) P8:2FBA (10X) at 38°C, (B) P8:3FBA (10X) at 52°C, (C) P8:3CIBA (10X) at 58°C and (D) P8:4CIBA (10X) at 72°C