Assembly of poly(methacrylate)/purple membrane lamellar nanocomposite films by intercalation and *in-situ* polymerisation

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**Figure S1.** ATR-FTIR spectra of a PM-WT control film (black) and a polyMA/PM-WT composite film (red).
Figure S2. Off specular XRR scans for polyMA : PM ratio 1.2 : 1 composite films showing a range of interlayer peaks. Although the reflections are observed at a lower angle than for native (non-intercalated) PM, the three repeated scans show some variance in the peak positions.