Supplementary Information

Double stimuli-responsive di- and triblock copolymers of poly(N-isopropyl acrylamide) and poly(1-vinyl imidazole): synthesis and self-assembly

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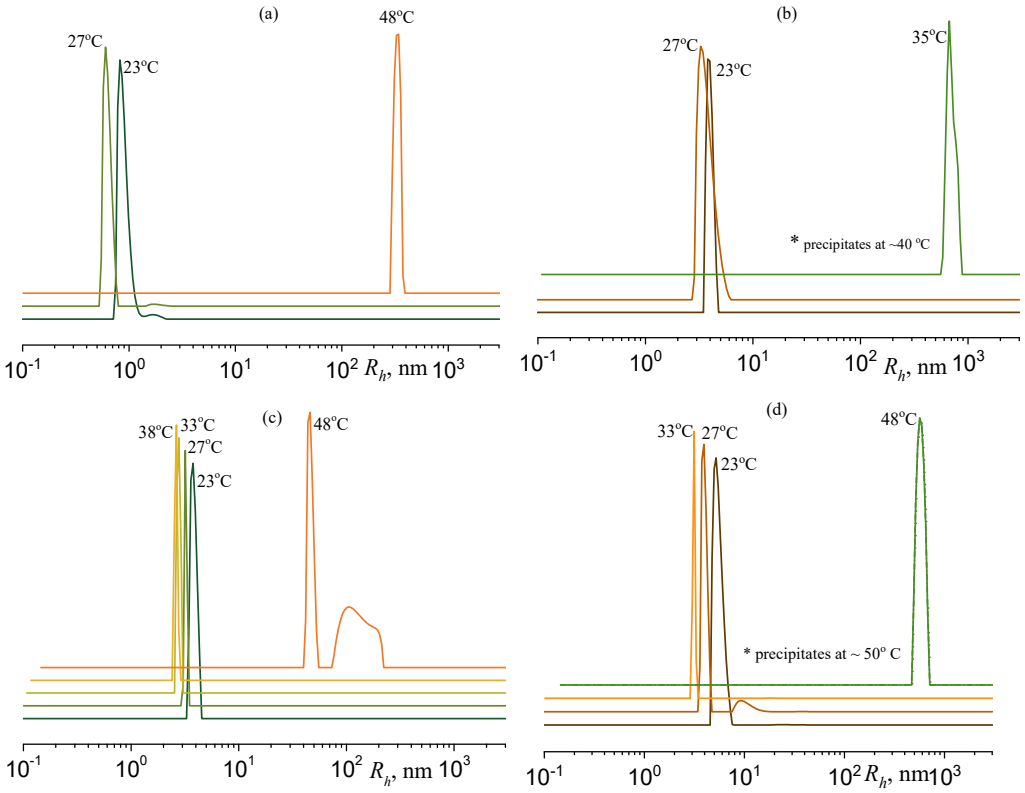

Figure S1. The hydrodynamic radius R_h distribution curves at the selected temperatures for PNIPA$_{28}$-*b*-PVIM$_{62}$-*b*-PNIPA$_{29}$ at pH 3 (a) and pH 9 (b); PNIPA$_{60}$-*b*-PVIM$_{90}$ at pH 3 (c) and pH 9 (d). The measurements were taken under the scattering angle of 90°, R_h is number-averaged.

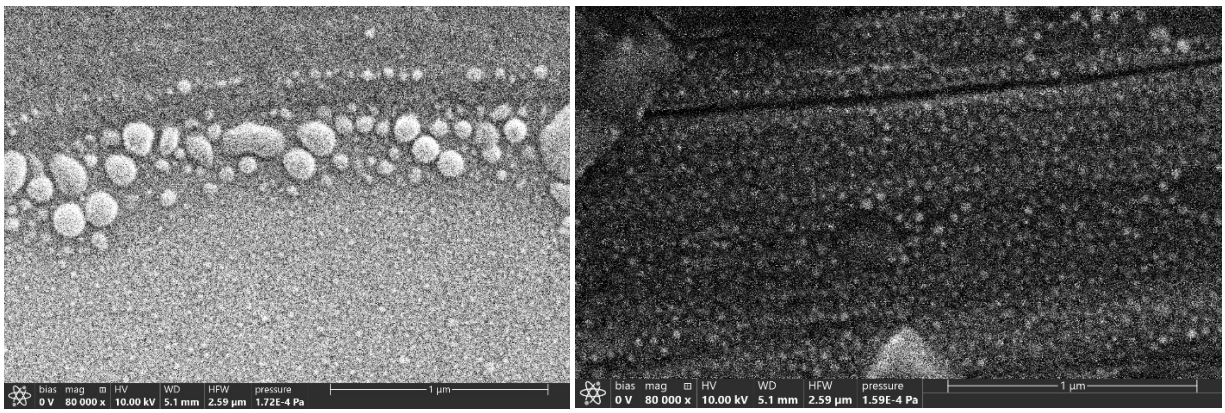

Figure S2. Scanning electron microscopy images of the dried polymer solutions of for PNIPA$_{28}$-*b*-PVIM$_{62}$-*b*-PNIPA$_{29}$ at pH 3 (a) and PNIPA$_{60}$-*b*-PVIM$_{90}$ at pH 3 (b).

Scanning electron microscopy (SEM) images were obtained using a Prisma E microscope (Thermo Scientific, Brno, Czech) with 10 kV accelerating voltage in the high vacuum mode. The sample preparation procedure was the following. The small drops of 0.2 mg\ml of polymer solution were heated to 60°C, placed on heated silica wafers and left to dry for 24 hours. Directly before the SEM measurements, the samples were coated with 10 nm layer of gold by Q150R ES plus sputter coater (Quorum Technologies, East Sussex, UK). Scanning electron microscopy was performed in the ACBS Center of the Collective Equipment (no. 506694, FRCCP RAS) by Dr. Alexander Gulin.