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Supporting Information

Figure S1. Phase contrast micrographs (20x) of time-dependent structural evolution of colloidal gels comprised of 1.10 and 1.87 μ m beads with complementary strands of varying overlapping segment length. Each suspension had the same total volume fraction ($\phi_{t,0}=10^{-4}$) and ionic strength (200mM NaCl). Mixtures of small and large beads were functionalized with (a-d) a18 and b18 respectively (12 base pair overlap) (e-h) a17 and b17 respectively (10 base pair overlap) and (i-l) a16 and b16 respectively (8 base pair overlap). Micrographs were taken (a.e.i) 10 minutes (b.f.i) 2h (c.g.k) 4h and

(d,h,l) 24h after mixing heterogeneous beads together.

Figure S2. Phase contrast micrographs (20x) of time-dependent structural evolution of colloidal gels comprised of 1.10 and 1.87 μ m beads with complementary strands of varying overlapping segment lengths hybridization. Each suspension had the same total volume fraction ($\phi_{t,0}=10^{-4}$) and ionic strength (50mM NaCl). Mixtures of small and large beads were functionalized with (a-d) a18 and b18 respectively (12 base pair overlap) (e-h) a17 and b17 respectively (10 base pair overlap) and (i-l) a16 and b16 respectively (8 base pair overlap). Micrographs were taken (a,e,i) 10 minutes (b,f,j) 2h (c,g,k) 4h and (d,h,l) 24h after mixing heterogeneous beads together.

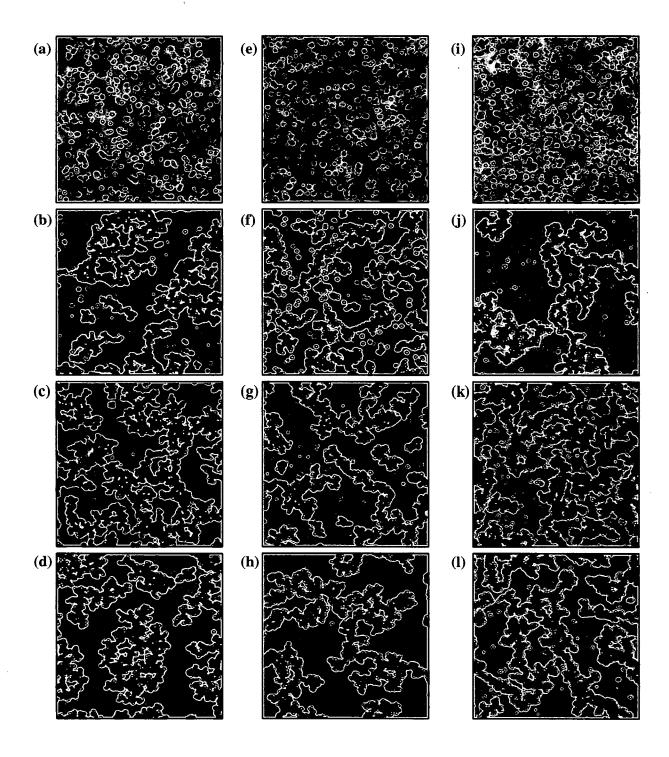


Figure S1

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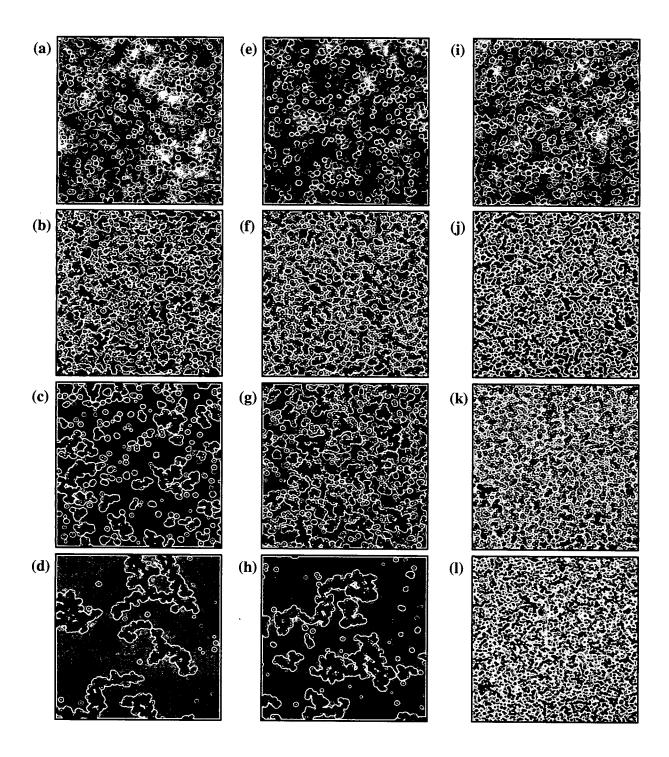


Figure S2

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