**Supplemental Figure 1.** (A) Chemical structure of biotin-functionalized alginate. (B) Cross-junction microfluidic device used to fabricate alginate microgels. (C) Chemical structure of transcyclooctene (TCO)-functionalized alginate. (D) Chemical structure of tetrazine (Tz)-functionalized alginate. (E) Chemical structure of norbornene (Nb)-functionalized alginate.
Supplemental Figure 2. (A) Distribution of microgel clusters of TCO (green), Nb (blue), and Tz (red) microgels after suspension-mediated assembly of a single microgel type. (B) Distribution of microgel clusters of biotin (blue) and streptavidin (green) microgels after centrifugation-mediated assembly of a single microgel type. (C) Distribution of microgel clusters of TCO (green), Nb (blue), and Tz (red) microgels after centrifugation-mediated assembly of a single microgel type. Distributions of microgels before and after centrifugation were statistically not significant, p > 0.05, Kolmogorov-Smirnov test.