



**Figure S1.** Schematic illustration of the adsorption mechanism of the foams whipped by RBP-NaCas and RBP-Ns-NaCas at the air-water interface. RBP-NaCas: composite protein system composed of rice bran protein and sodium caseinate; RBP-Ns-NaCas: composite protein system composed of RBP-nanoparticles and NaCas.