

Figure S1. Genistein inhibits cancer stem-like cell characteristics of H460-derived lung cancer stem-like cells. Quantitation of: (A) Spheroid formation; (B) CD133, CD44, (C) Bmi1, Nanog, (D) MnSOD and FoxM1 protein expression levels; and cell (E) migration and (F) invasion. * $P < 0.05$ vs. 0.0 μM GEN; # $P < 0.05$ vs. 20 μM GEN. CD, cluster of differentiation; Bmi1, BMI1 proto-oncogene, polycomb ring finger; Nanog, Nanog homeobox; MnSOD, manganese superoxide dismutase; FoxM1, Forkhead box protein M1; GEN, genistein.

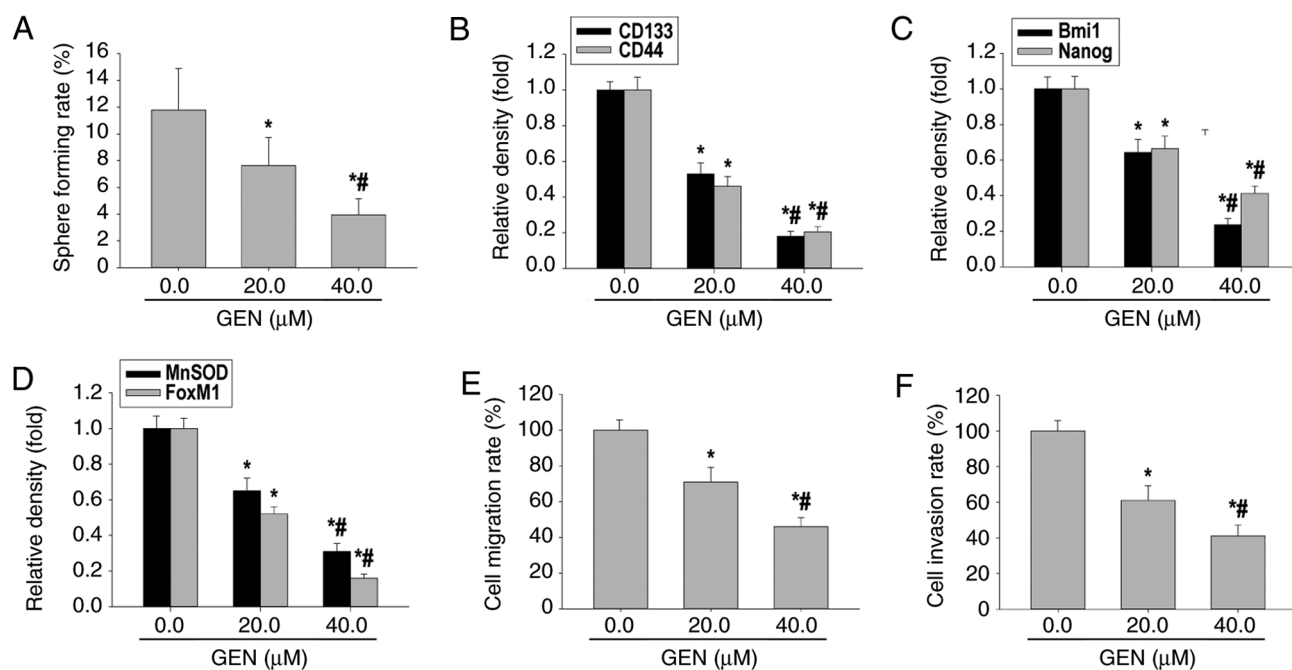


Figure S2. MnSOD overexpression antagonizes genistein-mediated effects on H460 cell lung cancer stem-like cell characteristics. Quantitation of: (A) MnSOD and FoxM1 protein expression levels; (B) spheroid formation; (C) CD133, CD44, (D) Bmi1 and (E) Nanog protein expression levels; and cell (E) migration and (F) invasion. *P<0.05 vs. GFP cDNA; #P<0.05 vs. 40 μ M GEN; \$P<0.05 vs. MnSOD cDNA. MnSOD, manganese superoxide dismutase; FoxM1, Forkhead box protein M1; CD, cluster of differentiation; Bmi1, BMI1 proto-oncogene, polycomb ring finger; Nanog, Nanog homeobox; GEN, genistein.

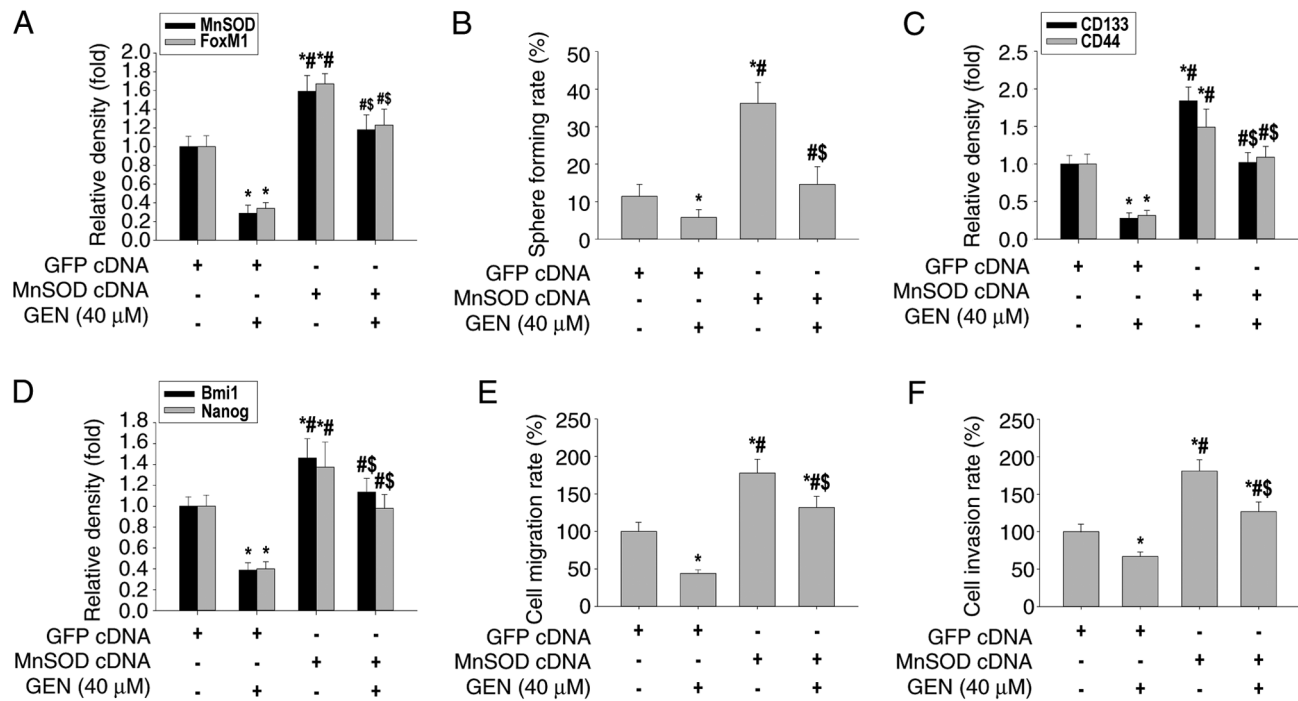


Figure S3. Cooperative effects of genistein and MnSOD knockdown on cancer stem-like cell characteristics of H460-derived lung cancer stem-like cells. Quantitation of: (A) MnSOD and FoxM1 protein expression levels; (B) spheroid formation; (C) CD133, CD44, (D) Bmi1 and Nanog proteins expression levels; and cell (E) migration and (F) invasion. *P<0.05 vs. shNC; #P<0.05 vs. 20 μ M GEN; \$P<0.05 vs. shMnSOD. MnSOD, manganese superoxide dismutase; FoxM1, Forkhead box protein M1; CD, cluster of differentiation; Bmi1, BMI1 proto-oncogene, polycomb ring finger; Nanog, Nanog homeobox; sh, short hairpin RNA; NC, negative control; GEN, genistein.

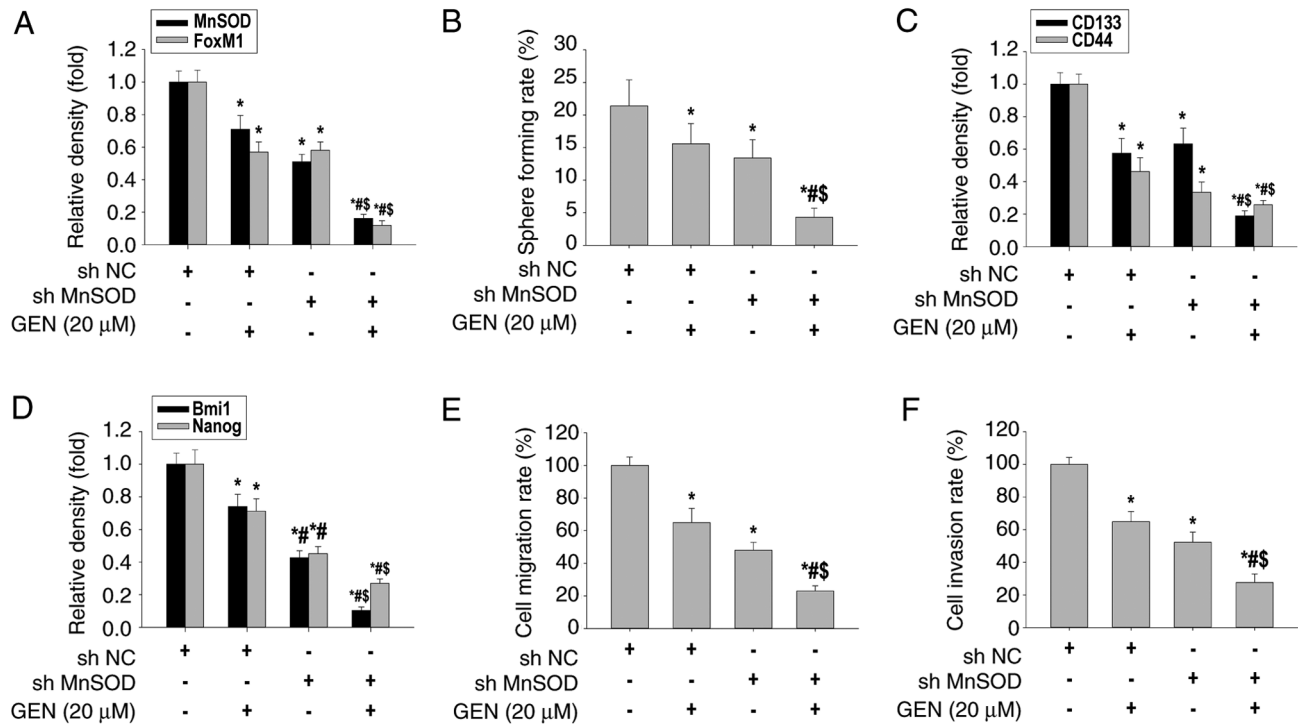


Figure S4. FoxM1 overexpression antagonizes genistein-mediated effects on H460 cell lung cancer stem-like cell characteristics. Quantitation of: (A) MnSOD and FoxM1 protein expression levels; (B) spheroid formation; (C) CD133, CD44, (D) Bmi1 and Nanog proteins expression levels; and cell (E) migration and (F) invasion. *P<0.05 vs. GFP cDNA; #P<0.05 vs. 40 μ M GEN; \$P<0.05 vs. FoxM1 cDNA. FoxM1, Forkhead box protein M1; MnSOD, manganese superoxide dismutase; CD, cluster of differentiation; Bmi1, BMI1 proto-oncogene, polycomb ring finger; Nanog, Nanog homeobox; GEN, genistein.

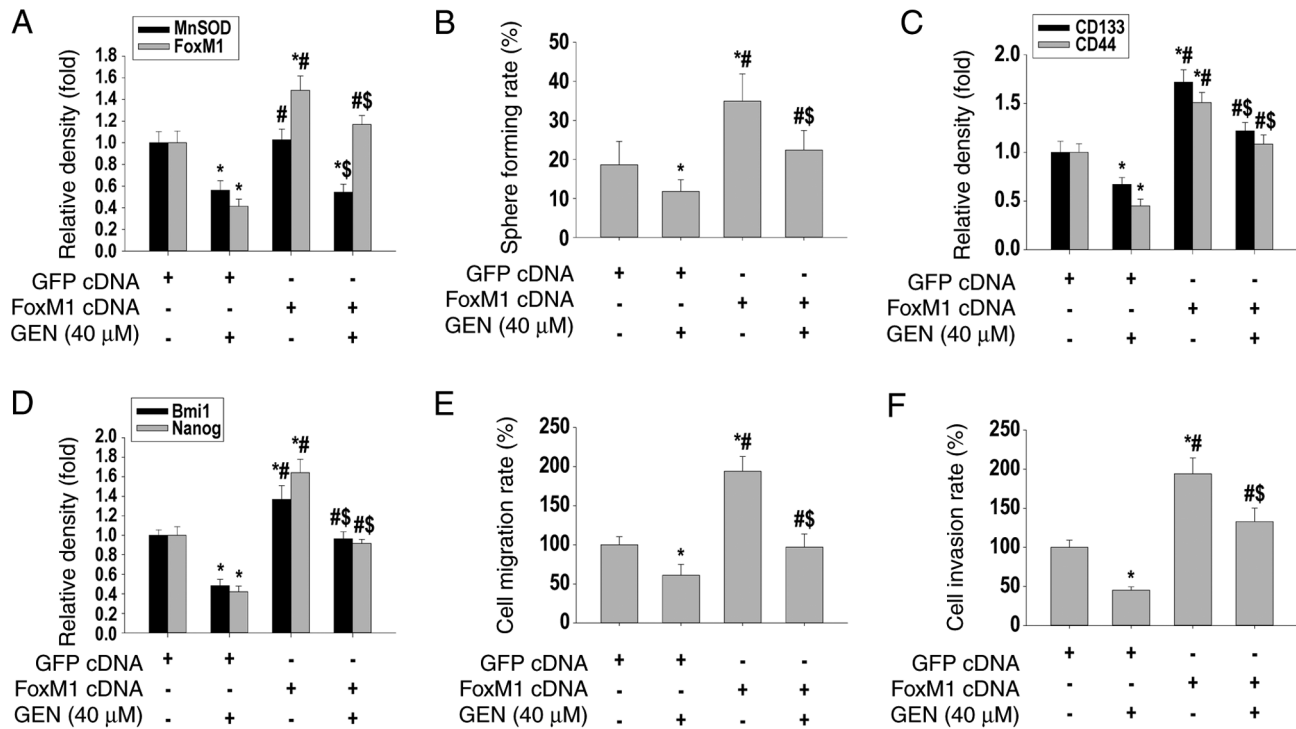


Figure S5. Cooperative effects of genistein and FoxM1 knockdown on cancer stem-like cell characteristics of H460-derived lung cancer stem-like cells. Quantitation of: (A) MnSOD and FoxM1 protein expression levels; (B) spheroid formation; (C) CD133, CD44, (D) Bmi1 and Nanog proteins expression levels; and cell (E) migration and (F) invasion. *P<0.05 vs. shNC; #P<0.05 vs. 20 μ M GEN; \$P<0.05 vs. shFoxM1. FoxM1, Forkhead box protein M1; MnSOD, manganese superoxide dismutase; CD, cluster of differentiation; Bmi1, BMI1 proto-oncogene, polycomb ring finger; Nanog, Nanog homeobox; sh, short hairpin RNA; NC, negative control; GEN, genistein.

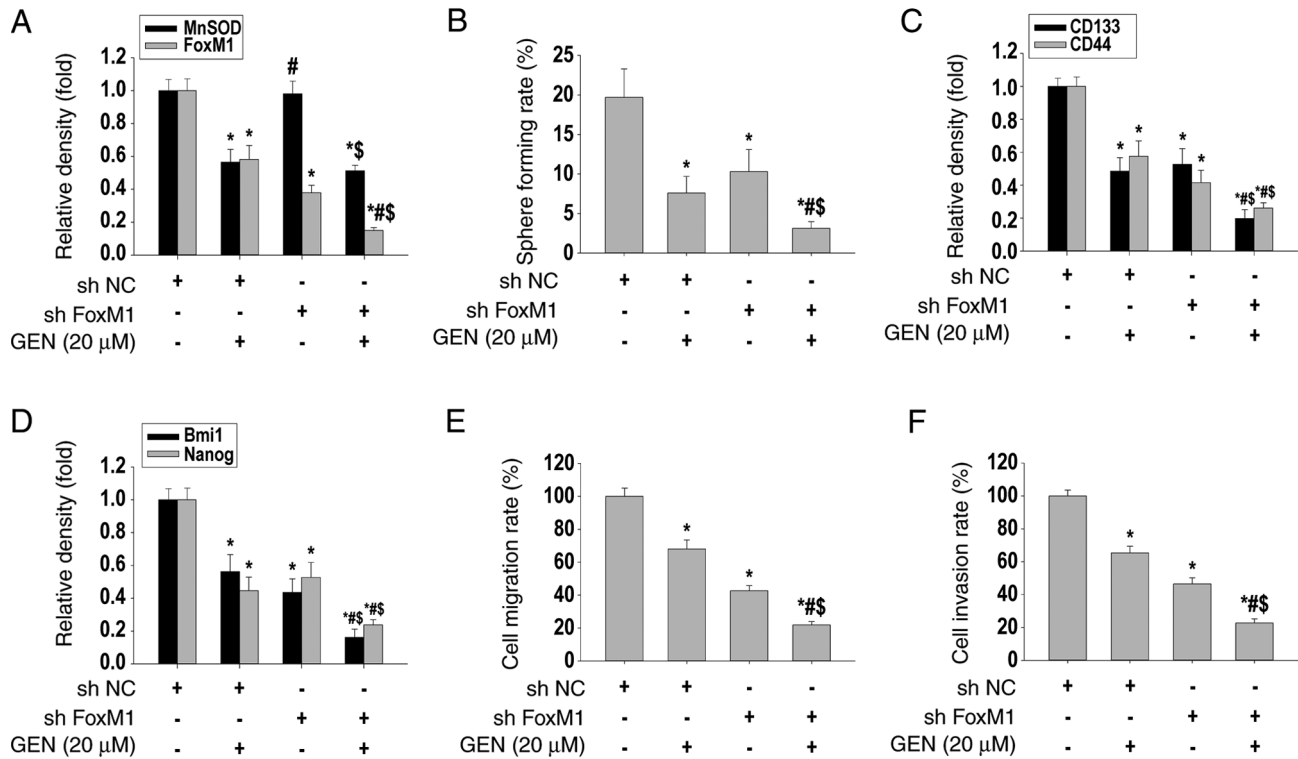


Figure S6. Genistein inhibits cancer stem-like cell characteristics of A549-derived lung cancer stem-like cells. Quantitation of: (A) MnSOD and FoxM1 protein expression levels; (B) spheroid formation; (C) CD133, CD44, (D) Bmi1 and Nanog protein expression levels; and cell (E) migration and (F) invasion *P<0.05 vs. 0.0 μ M GEN; #P<0.05 vs. 20 μ M GEN. MnSOD, manganese superoxide dismutase; FoxM1, Forkhead box protein M1; CD, cluster of differentiation; Bmi1, BMI1 proto-oncogene, polycomb ring finger; Nanog, Nanog homeobox; GEN, genistein.

