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```

HP      1 -----atgaaaaaagtaatgcacagagcttcatcaagaggctattttaatcatggctggctcaaaaacccaccacacacattcagtttttgctaaactattaca
Rec 1 HP      1 ggtaccatgaaaaaagtgattgactcgtgcgagcagcogtggtattttaaccatggctggctgaaaccccatcataccttttagcttcggaactattata
Rec 2 HP      1 ggtaccatgaaaaaagtattgactcgtgcctcatcaogtggtataatttaataatcatggatggcttaaaactcatcacatttagttttgccaattattata

HP      95 atccggaagaatccatttcogagcccttgagtgctgaatgatgacagtgtagacccgtcgatgggatttgatactcatccacataaaaaatatggaagt
Rec 1 HP     101 atccggaacgcattcattttggcgcgctgcgtgctgaacgatgatagcgtggatccgagcatgggctttgataccatccgcacaaaaaacatggaagt
Rec 2 HP     101 atccagaacgtattcatttttggctccttcogtcttgaatgatgattcagttgatccatcaatgggatttgatacacatccacataaaaaatatggaagt

HP     195 aatttcattccgttgaaagggtatctgagacatggcgacagtgtaaaaaatcgaaaaacgattactcccggtgatcccaagtgatgacgggcagc
Rec 1 HP     201 gattagcattccgtgaaaggctatctgcgtcatgtgcgagatagcgtgcagaacacacaaaaacattaccccggtgatattcaggtgatgacacgggcagc
Rec 2 HP     201 tattcaattccacttaaggatattcttcgtcatggtgattcagttcaaaatataaaaaacaattacacctggagatatccaagttatgtctacaggatca

HP     295 ggtatctatcatagtgagtataacgcagcaagcaagaagaacaattggaattcctgcaaaatatgggtattccccggaatcgagaatacgaaacccggaatata
Rec 1 HP     301 ggcatttatcatagcaatacaacagatagcaaaagaagaacagctggaatttctgcagatttgggtgttcgcggtattgaaaaacaccaaaccggaatata
Rec 2 HP     301 ggaatttatcattccagaataataatgatattcaaaagaagaacaacttgaatttcttcaaatttgggtctttccaogtattgaaaaatacaaaacccagaatata

HP     395 acaatttcogataacgtccgctgctgaaaaacgaaogagttatctctgttcatttcacogaacggcaagacacccggcctccatcaaacaggatgcctgggtt
Rec 1 HP     401 acaactttgatattgcgcctgctgaaacccgaacgaactgagcctgtttattagcccgaaacggcaaaaaccccgcgagcattaaacaggatgcgtgggtt
Rec 2 HP     401 ataatttcgacattcgtccacttcttaaaaccaaatagaactttcaacttttatctcaccaaatggaaaaaacaccagcttcaattaaacaagatgcttgggtt

HP     495 ctctatgggagacttcgatacgygaaagaacccatcgaatatattgtatgcatacaggaaggtaacggagcttatctgttgatagaaggagagatcagcgtg
Rec 1 HP     501 tagcatgggcgattttgataccgaacgcacccattgaataattgcatagcatacaggaaggcaacggcgctacctgtttgtgattgaaggcgaaattagcgtg
Rec 2 HP     501 ttcaatgggagattttgatcacagaacgtacaaattgaataattgtatgcatacagaaggtaacggcgcttatcttttgttattgaaggtgaaatttcagtt

HP     595 gccgatgaacatctggcccaaacgtgaocggcatcggaatatgggataccaaaaagcttctctatccgtgctactaaagggaccacaaacttcttgtaaatggaag
Rec 1 HP     601 gcggatgaacatctggcccaaacgtgatggcaattggcatttgggataccaaaaagcttcagcattcgtgcgacaaaggcaccaaaactgctggtgatggaag
Rec 2 HP     601 gctgatgaacatcttgctaaacgtgatggaattggaatttgggatacaaaaatcatttcaattcgtgctacaaaagggtacaaaaacttcttgttatggaag

HP      695 taccatgtaa-----
Rec 1 HP      701 tgccgatgtaataagagctc
Rec 2 HP      701 ttccaatgtaataagagctc

```

FIG. 1A

HP	1	--mkkvidrassrgyfnhgwltkthtfsfanyynperihfgalrvlnddsvdpsmgfdthphknmevisipkgylrhgd
Rec 1 HP	1	gtmkkvidrassrgyfnhgwltkthtfsfanyynperihfgalrvlnddsvdpsmgfdthphknmevisipkgylrhgd
Rec 2 HP	1	gtmkkvidrassrgyfnhgwltkthtfsfanyynperihfgalrvlnddsvdpsmgfdthphknmevisipkgylrhgd
HP	235	svqntktitpgdiqvmstgsgiyhseynskskeeqleflqiwwfprientkpeynnfdirpllknelslfspngktpas
Rec 1 HP	241	svqntktitpgdiqvmstgsgiyhseynskskeeqleflqiwwfprientkpeynnfdirpllknelslfspngktpas
Rec 2 HP	241	svqntktitpgdiqvmstgsgiyhseynskskeeqleflqiwwfprientkpeynnfdirpllknelslfspngktpas
HP	475	ikqdawfsmgdfdtertieycmhqegnqaylffviegeisvadehlakrdgigiwdtkfsiratkgtkllvmevpm ---
Rec 1 HP	481	ikqdawfsmgdfdtertieycmhqegnqaylffviegeisvadehlakrdgigiwdtkfsiratkgtkllvmevpm el
Rec 2 HP	481	ikqdawfsmgdfdtertieycmhqegnqaylffviegeisvadehlakrdgigiwdtkfsiratkgtkllvmevpm el

FIG. 1B

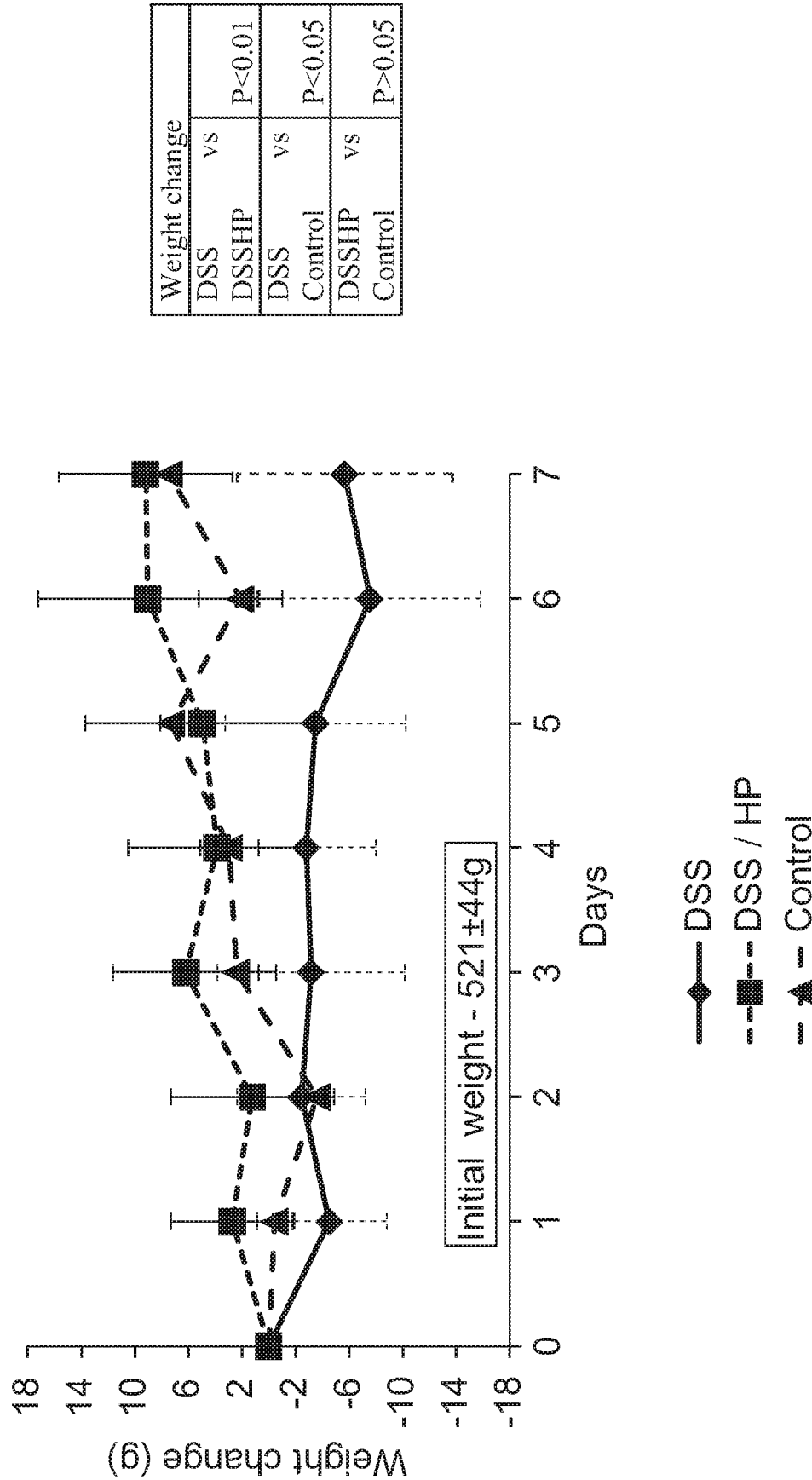


FIG. 2

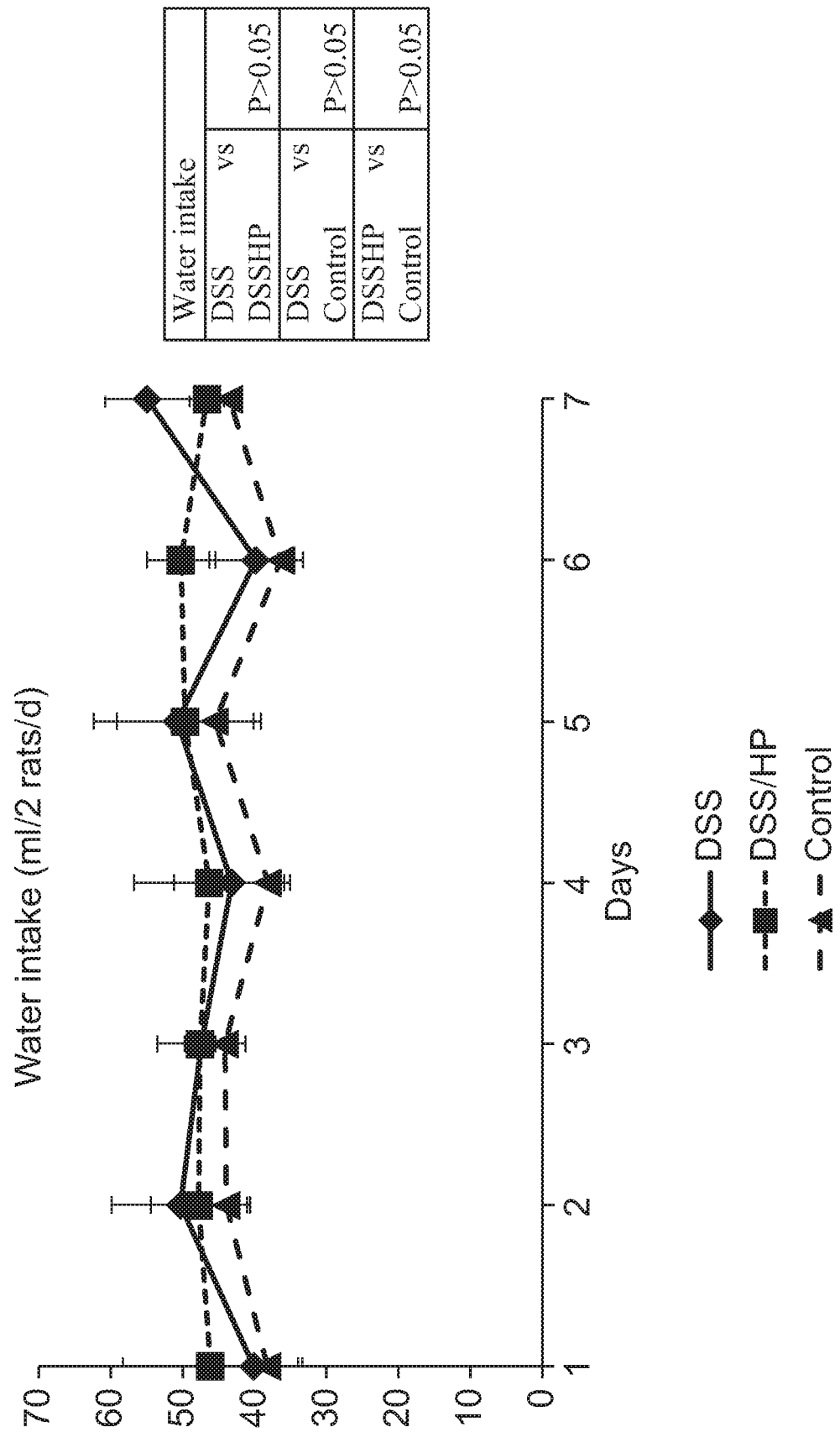


FIG. 2(contd.)

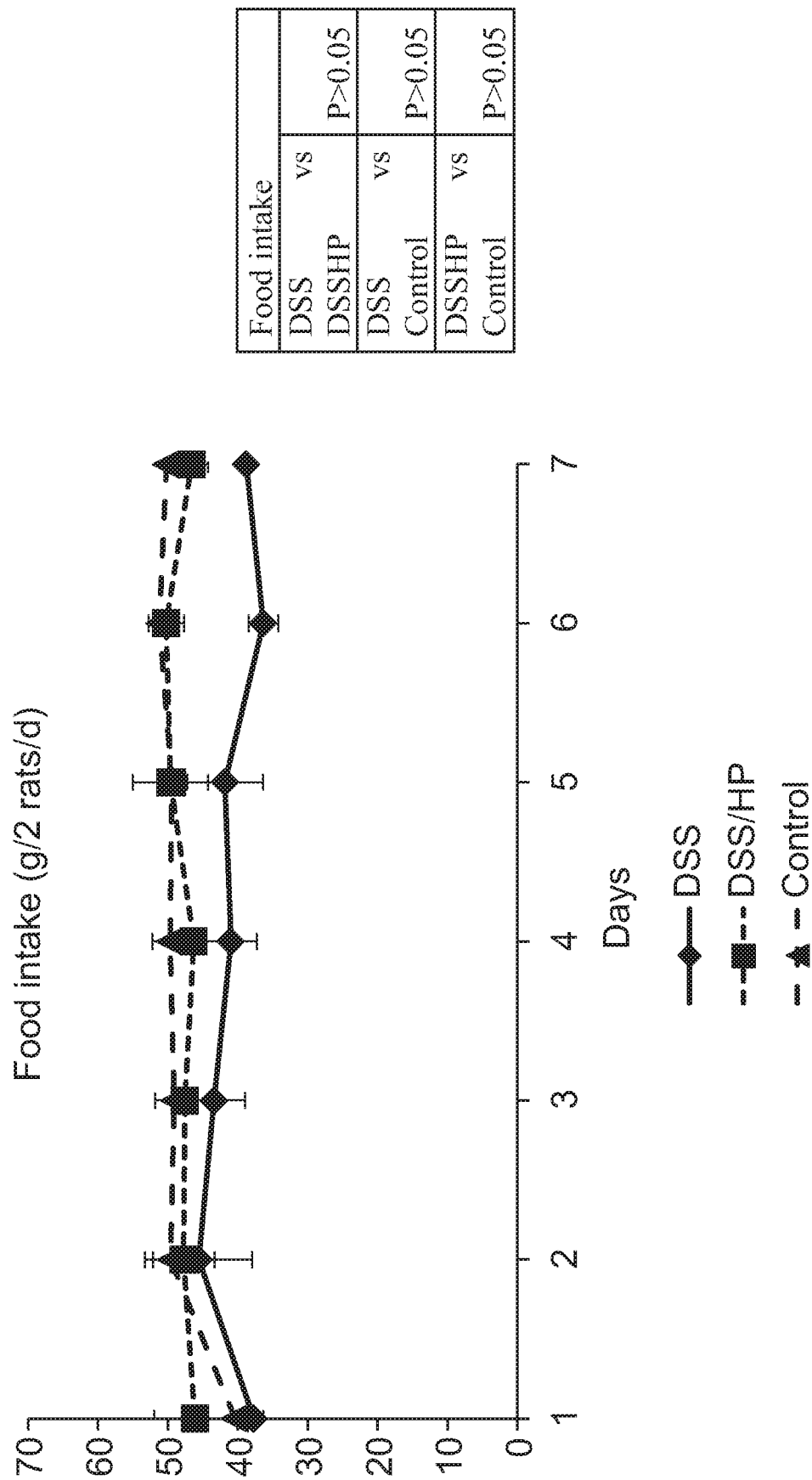


FIG. 2(contd.)

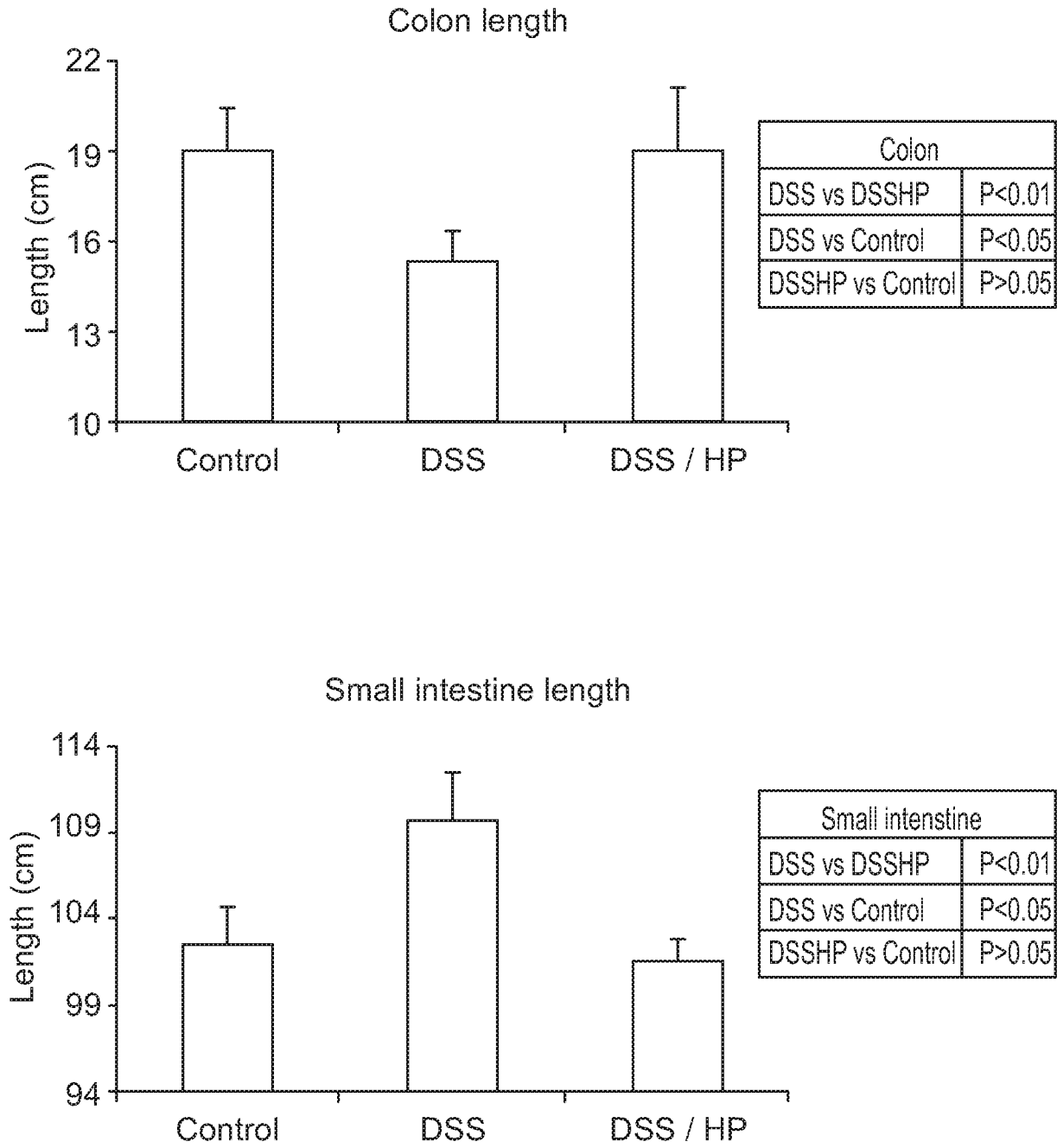
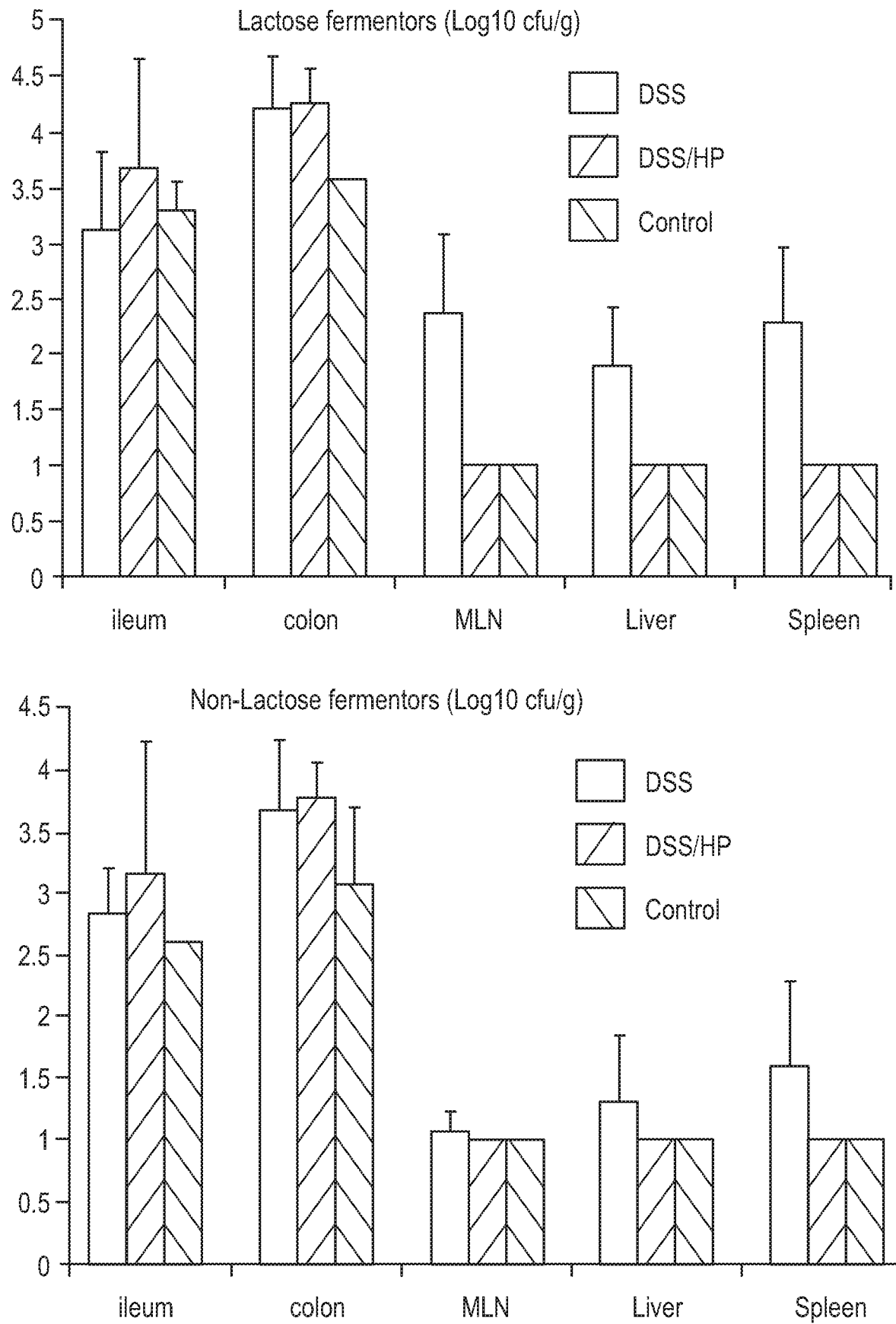


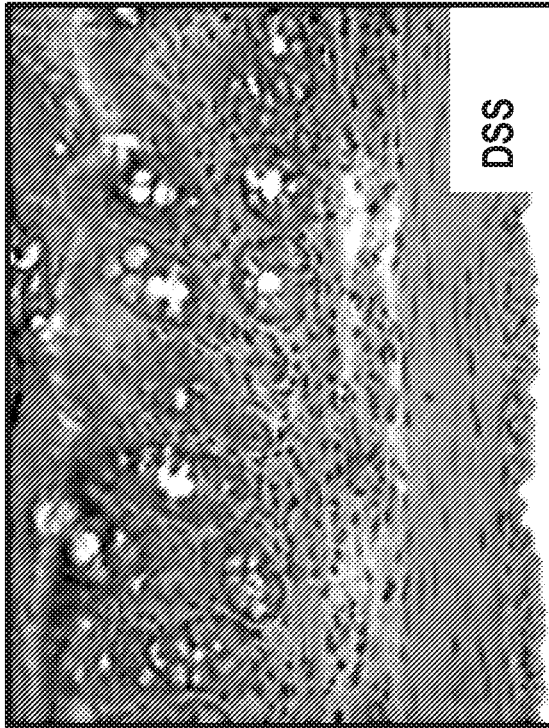
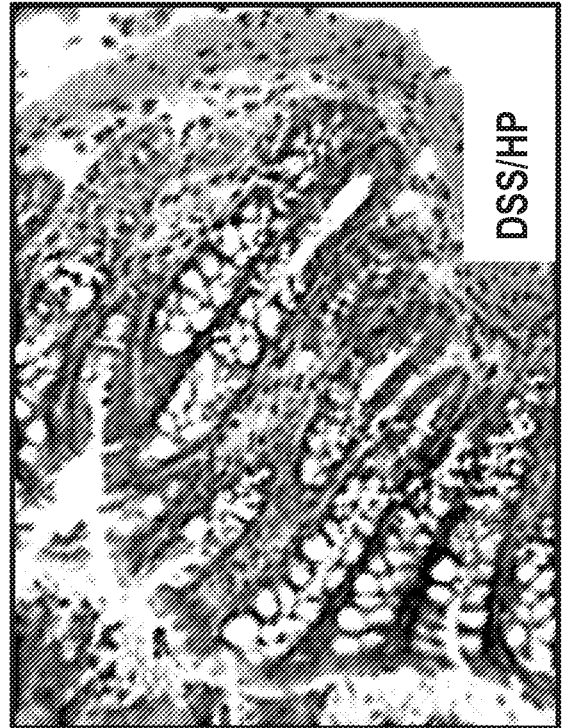
FIG. 3

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**FIG. 4**

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Descending colon



Descending colon

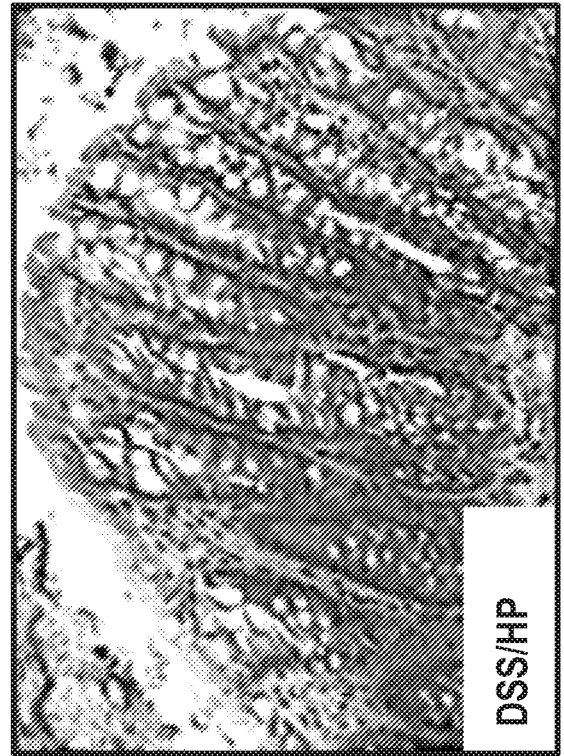
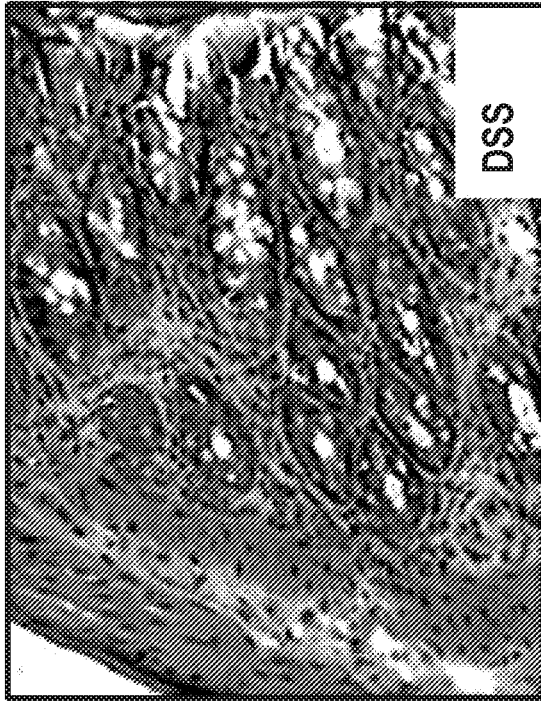
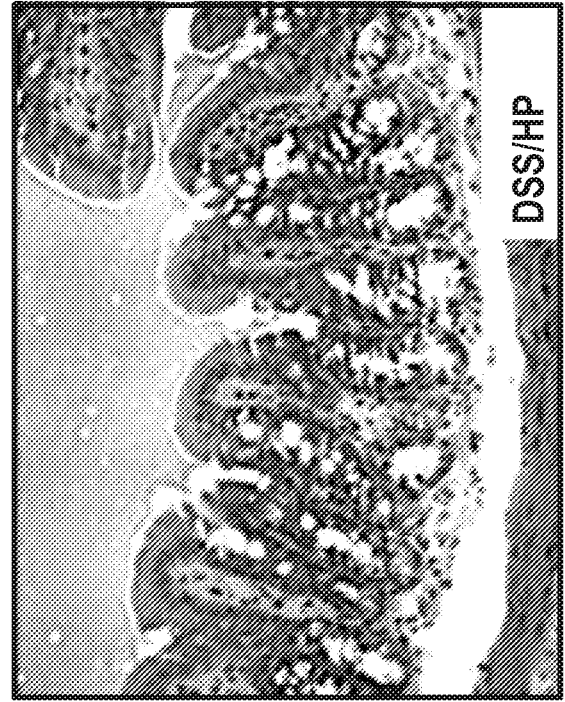


FIG. 5

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Ascending colon



Ascending colon

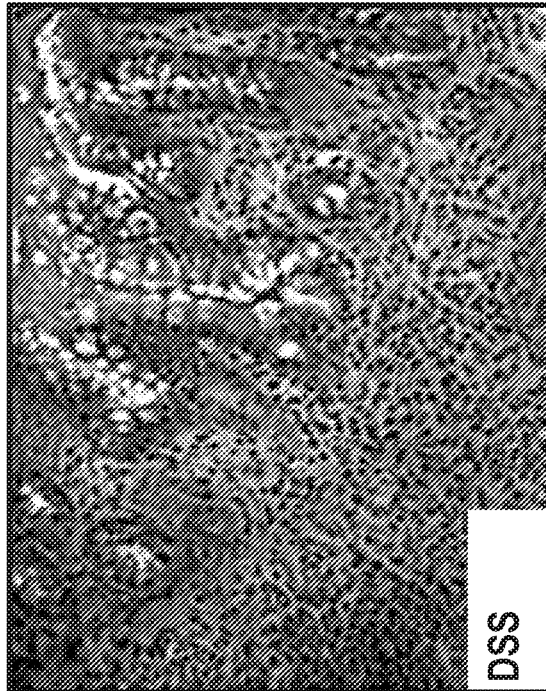
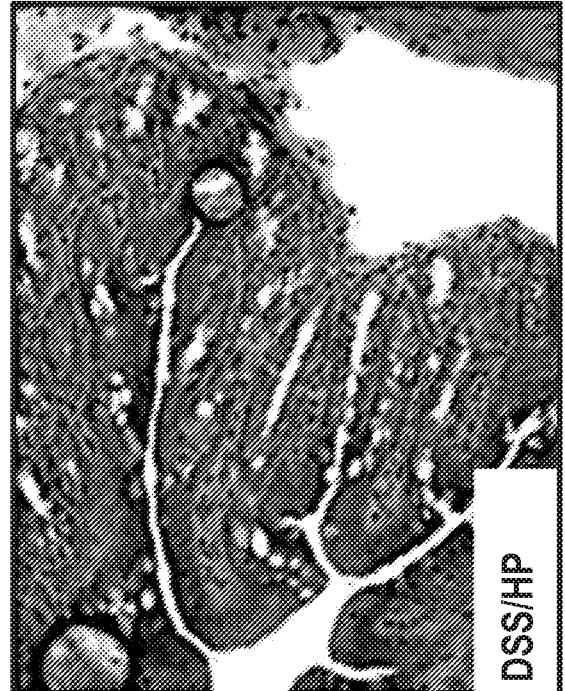


FIG. 5(contd.)

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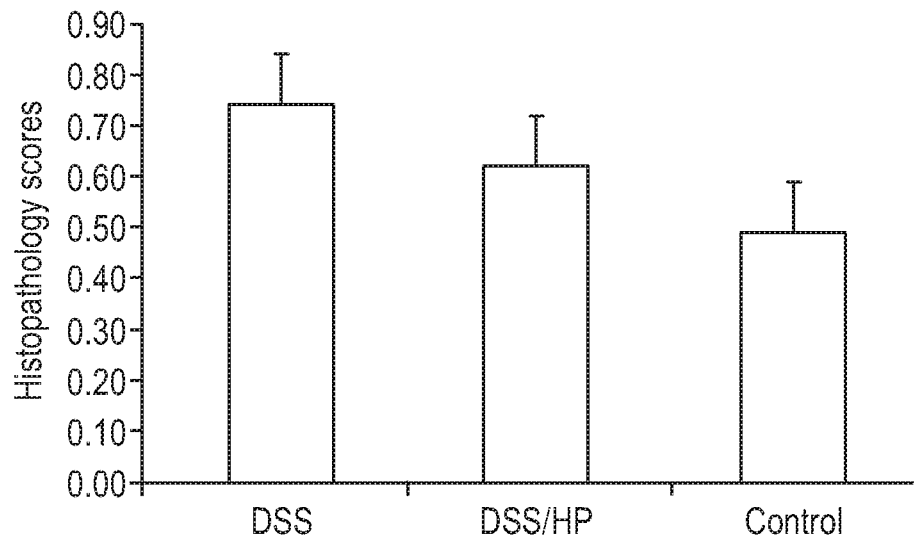
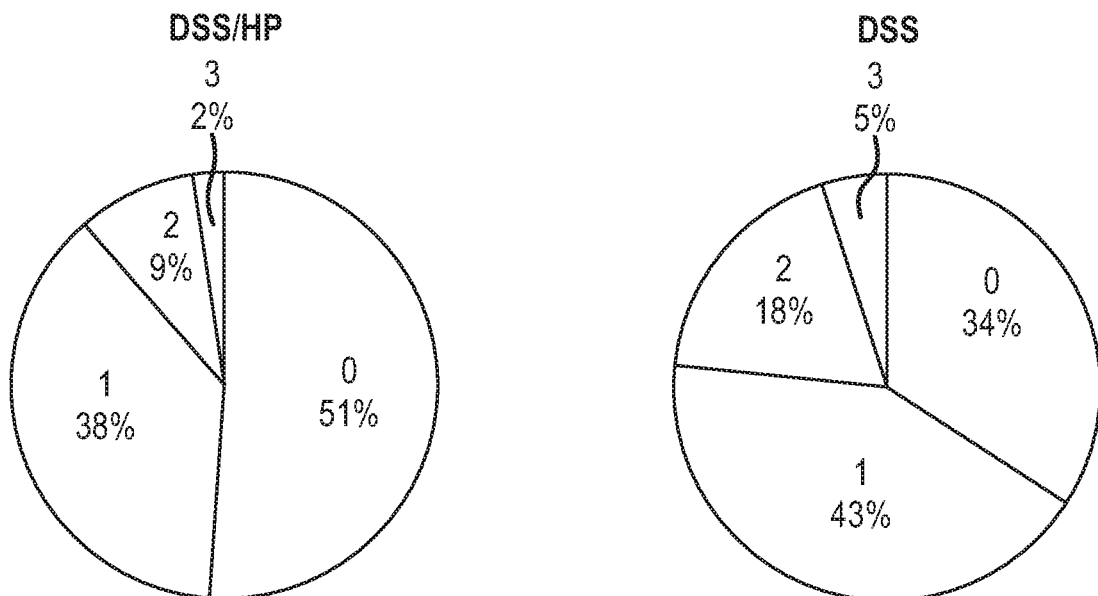


FIG. 6

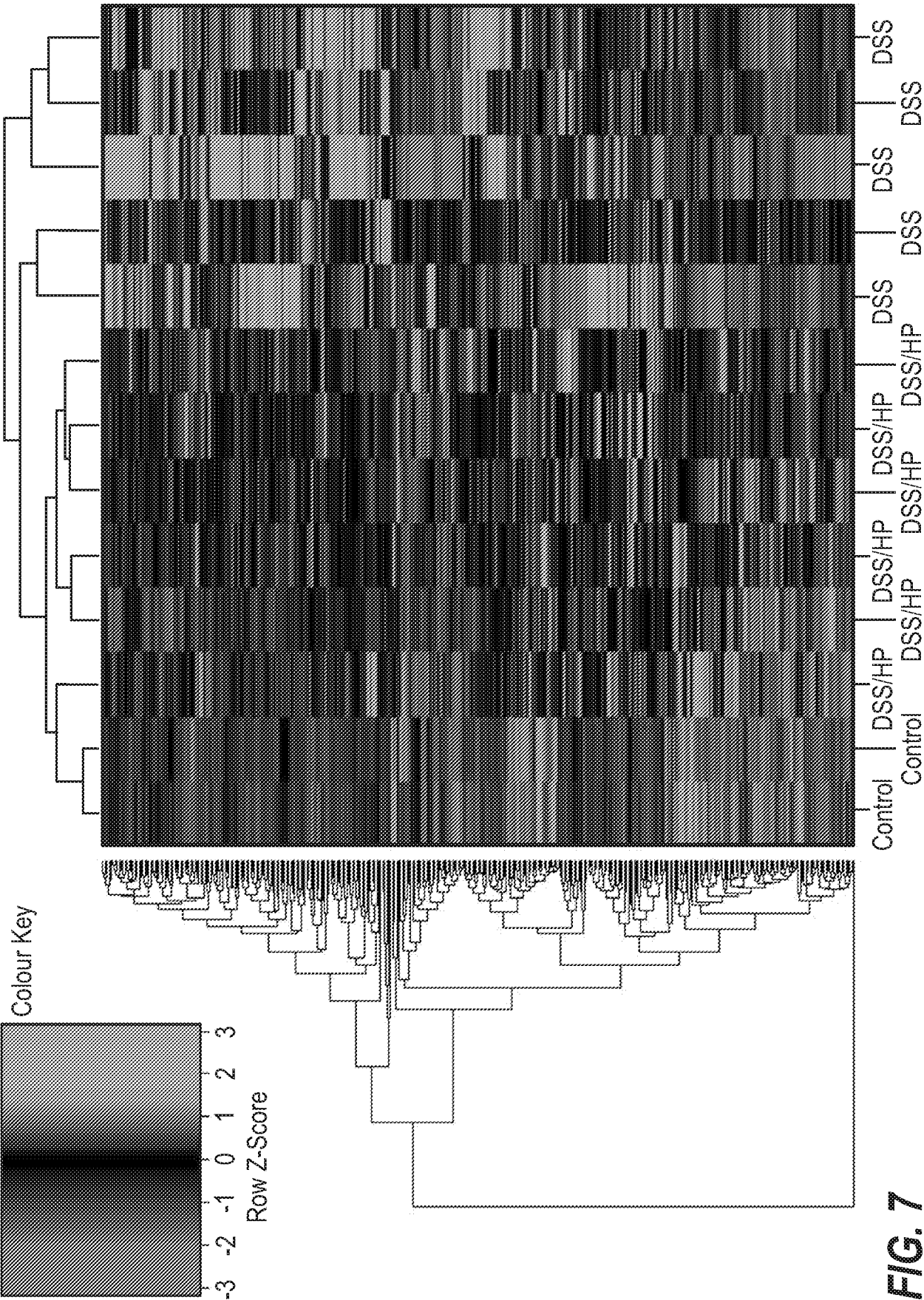


FIG. 7

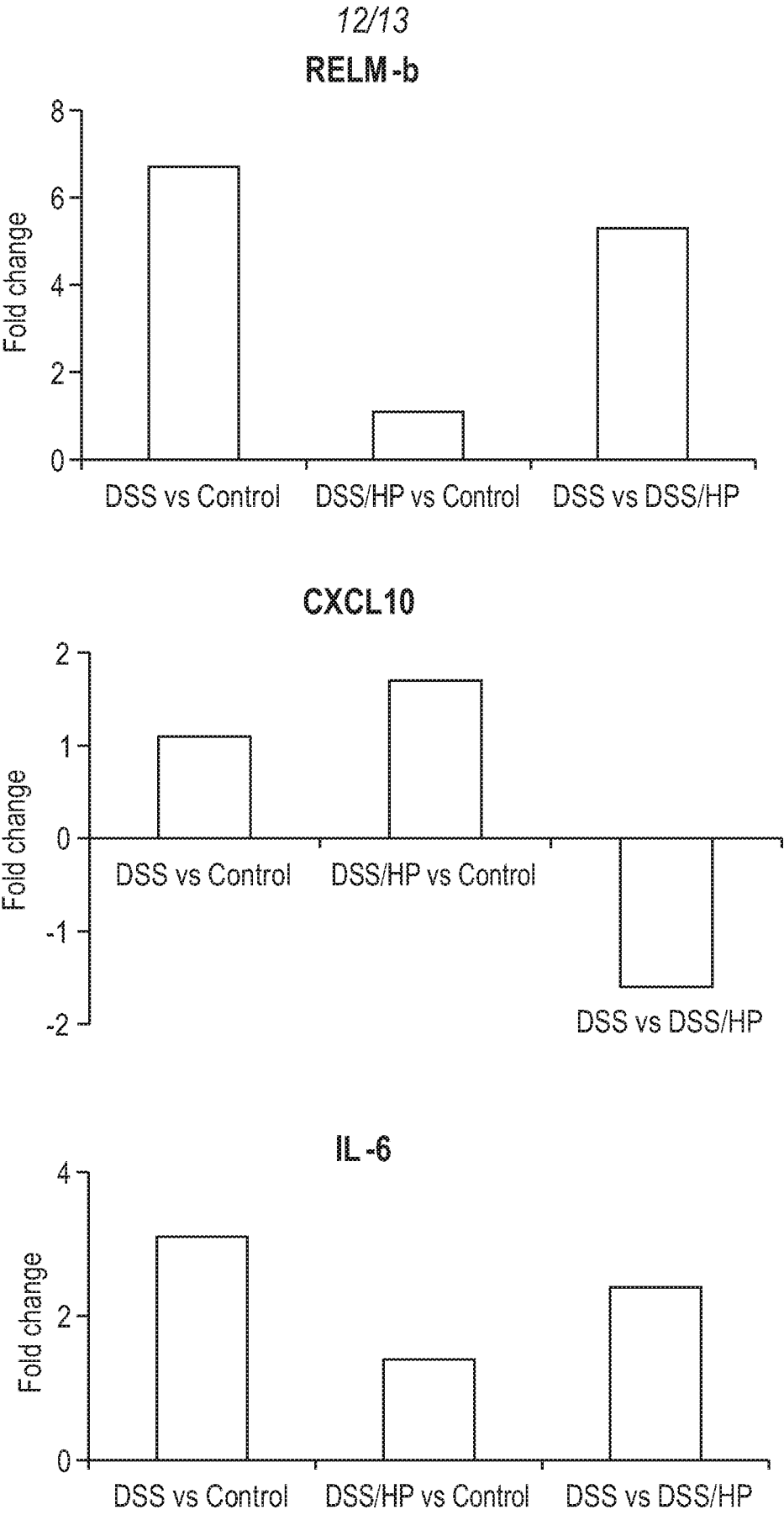


FIG. 8

