

Results

Table S1. Primer sequences

| Primer Name | Sequence 5'→3' |
|------------------|--------------------------|
| SREBP-1C F | CGACACCACCAGCATCAACCACG |
| SREBP-1C R | GCAGCCCDATTCATCAGCCAGACC |
| BETA-ACTIN F | GCTAACAGTCCGCCTAGAAGCA |
| BETA-ACTIN R | GTCATCACCATCGGGCAATGAG |
| PPAR- α F | GATACCACTATGGAGTCCACGCA |
| PPAR- α R | GCCGAAAGAAGCCCTTG |
| NF- κ B F | CGTGAAGTATTCAGGTTTG |
| NF- κ B R | TGGGGGAAACTCATCAAAG |
| TNF- α F | GAAGTTCCCAAATGGCCTCC |
| TNF α R | GTGAGGGTCTGGGCCATAGA |

Table S2. Effect of neonatal zingerone on ethanol consumption in alcohol-exposed rats in adult (A) male and (B) female rats

| <i>A. Males</i> | | | | |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Weekly ethanol consumption (g/100g/body mass) | | | | |
| Week | NM+Eth | NM+Eth+Eth | NM+ZO+Eth | NM+Eth+ZO+Eth |
| Wk 1 | 3.46±0.91 ^a | 2.64±0.53 ^a | 2.98±0.91 ^a | 2.77±0.42 ^a |
| Wk 2 | 5.20±0.68 ^b | 5.41±1.40 ^b | 5.50±1.13 ^b | 5.37±1.46 ^b |
| Wk 3 | 7.40±1.64 ^b | 7.16±1.42 ^b | 7.59±1.89 ^b | 7.64±1.77 ^b |
| Wk 4 | 9.81±0.82 ^b | 8.30±1.40 ^b | 8.48±1.07 ^b | 9.35±1.99 ^b |
| Wk 5 | 9.63±0.81 ^b | 8.59±2.44 ^b | 8.94±1.61 ^b | 8.95±1.48 ^b |
| Wk 6 | 9.79±0.9 ^b | 7.86±1.68 ^b | 8.99±1.54 ^b | 8.85±1.55 ^b |
| Wk 7 | 9.39±3.47 ^b | 8.09±2.37 ^b | 8.86±3.30 ^b | 8.55±1.85 ^b |
| Wk 8 | 10.16±1.18 ^b | 8.68±1.38 ^b | 9.26±1.49 ^b | 9.25±1.32 ^b |
| Mean | 8.10±2.52 | 7.02±2.09 | 7.57±2.22 | 7.59±2.34 ^b |
| <i>A. Females</i> | | | | |
| Weekly ethanol consumption (g/100g/body mass) | | | | |
| Week | NM+Eth | NM+Eth+Eth | NM+ZO+Eth | NM+Eth+ZO+Eth |
| Wk 1 | 3.79±0.94 ^a | 4.15±1.01 ^a | 4.61±0.57 ^a | 4.50±1.26 ^a |
| Wk 2 | 6.68±1.32 ^b | 8.06±2.47 ^b | 7.52±2.78 ^b | 7.64±1.82 ^b |
| Wk 3 | 9.89±1.49 ^b | 12.53±8.81 ^b | 10.62±3.24 ^b | 9.76±1.60 ^b |
| Wk 4 | 11.16±2.82 ^b | 13.43±5.53 ^b | 10.05±1.60 ^b | 10.90±1.96 ^b |
| Wk 5 | 11.99±6.65 ^b | 10.72±1.51 ^b | 12.11±2.7 ^b | 11.42±3.88 ^b |
| Wk 6 | 10.81±2.70 ^b | 10.37±0.90 ^b | 10.23±2.54 ^b | 10.51±1.14 ^b |
| Wk 7 | 10.58±2.77 ^b | 9.21±1.95 ^b | 11.46±4.18 ^b | 10.04±2.07 ^b |
| Wk 8 | 11.72±1.74 ^b | 12.49±1.81 ^b | 12.31±1.55 ^b | 11.97±1.93 ^b |
| Mean | 9.58±2.87 | 10.12±3.01 | 9.86±2.61 | 9.59±2.44 |

Data is presented as mean \pm standard deviation. ^{ab} = preceding week's ethanol intake was significantly lower at $p < 0.05$. **NM + W** = gavaged with 10 ml/kg body mass per day nutritive milk during suckling + plain drinking water in adulthood; **NM+Eth+ W** = gavaged with 10 ml/kg body mass per day nutritive milk and Eth during suckling + plain drinking water in adulthood; **NM+Eth** = gavaged with 10 ml/kg body mass per day nutritive milk during suckling + Eth solution in adulthood; **NM + Eth+ Eth** = gavaged with 10 ml/kg body mass per day nutritive milk and Eth during suckling + Eth solution in adulthood; **NM+ ZO + W** = gavaged with 10 ml/kg body mass per day nutritive milk and ZO during suckling + plain drinking water in adulthood; **NM+Eth+ZO+W** = gavaged with 10 ml/kg body mass per day nutritive milk, Eth and ZO during suckling + plain drinking water in adulthood; **NM+ZO+Eth** = gavage with 10 ml/kg body mass per day nutritive milk and ZO during suckling + Eth solution in adulthood; **NM+Eth+ZO+ Eth** = gavage with 10 ml/kg body mass per day nutritive milk, Eth and ZO during suckling + Eth solution in adulthood n = 6-8 per treatment group