

Intestinal cGAS–STING–IFN signalling promotes obesity by downregulating microbiota-derived IAA in male mice

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Supplementary Table 1. Demographic characteristics of the subjects

Variable (Cohort 1)	Healthy controls without obesity (n = 6)	Individuals with obesity (n = 6)	p value (Individuals without obesity vs with obesity)
Age (years)	34.75 ± 5.31	37.00 ± 6.94	0.4475
Male/female (n)	3/3	3/3	>0.9999
BMI (kg/m ²)	23.32 ± 1.96	30.32 ± 2.70	<0.0001
FBG (mmol/L)	5.72 ± 0.45	5.64 ± 0.50	0.7110
HbA1c (%)	5.26 ± 0.28	5.71 ± 0.18	0.0019
TG	1.27 ± 0.25	2.85 ± 1.01	0.0007
TC	4.65 ± 0.36	5.33 ± 0.79	0.0304
HDL-C	1.25 ± 0.31	1.07 ± 0.16	0.1530
LDL-C	2.83 ± 0.37	3.41 ± 0.55	0.0159
FCP (pmol/L)	455.80 (339.10, 491.80)	856.45 (824.55, 983.25)	0.0004
FINS (μU mL ⁻¹)	4.59 ± 1.70	15.20 ± 3.29	<0.0001

Data are presented as mean ± SD for normally distributed variables and as median (25th, 75th percentiles) for non-normally distributed variables, unless otherwise stated. Comparisons between groups were performed using Chi-squared tests, unpaired t-tests or Wilcoxon rank-sum tests, as appropriate. All tests were two-sided. BMI, body mass index; FBG, fasting blood glucose; HbA1c, Glycated Hemoglobin A1c; TG, Triglycerides; TC, Total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; FCP, Fasting C-peptide; FINS, Fasting insulin.

Supplementary Table 2. Demographic characteristics of the subjects.

Variable (Cohort 2)	Healthy controls without obesity (n =32)	Individuals with overweight (n=27)	Individuals with obesity (n = 25)	p value (Individuals without obesity vs with obesity)
Age (years)	43.00 (25.75, 51.00)	42.00 (32.00, 51.00)	36.2 (33.0-47.0)	0.1041
Male /female(n)	17/15	14/13	13/12	0.9328
BMI (kg/m ²)	21.92 ± 1.90	25.03 ± 0.81	30.89 ± 2.35	<0.0001
TG	1.02 (0.73, 1.22)	1.03 (0.76, 1.40)	3.10 (2.31, 4.17)	<0.0001
TC	4.51 ± 0.73	4.70 ± 1.11	4.97 ± 0.91	0.0440
HDL-C	1.48 (1.30, 2.00)	1.29 (1.17, 1.60)	1.06 (0.92, 1.12)	<0.0001
LDL-C	2.39 ± 0.88	2.90 ± 0.99	2.63 ± 0.87	0.3025
FCP (pmol/L)	387.85 (325.67, 452.40)	613.90 (556.38, 668.50)	1046.67 (822.50, 1266.67)	<0.0001

Data are presented as mean ± SD for normally distributed variables and as median (25th, 75th percentiles) for non-normally distributed variables, unless otherwise stated. Comparisons between HC and obese groups were performed using Chi-squared tests, unpaired t-tests or Wilcoxon rank-sum tests, as appropriate. All tests were two-sided. BMI, body mass index; TG, Triglycerides; TC, Total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; FCP, Fasting C-peptide.