Table S1. The body weight, food intake, systolic blood pressure, organ-to-body weight ratios and pH of caecum in experimental Wistar rats.

|  | Body weight - begin of feeding (g) | Body weight - end of feeding (g) | Body weight gain $^{1}(\mathrm{~g})$ | Daily food intake ${ }^{2}$ (g) | Daily dandelion intake ${ }^{3}$ (mg) | Heart rate (bpm) | Systolic BP (mmHg) | $\begin{gathered} \hline \text { Diastolic BP } \\ (\mathrm{mmHg}) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Control (C) | $190 \pm 2$ | $324 \pm 10$ | $134 \pm 8$ | $18.0 \pm 0.3$ | - | $414 \pm 10$ | $172 \pm 32$ | $87 \pm 3$ |
|  | 191 (186-193) | 326 (306-340) | 135 (120-146) | 18.1 (17.4-18.6) | - | 414 (403-423) | 186 (121-229) | 90 (81-91) |
| Leaf fraction (LF) | $190 \pm 3$ | $308 \pm 6$ | $118 \pm 3$ | $16.9 \pm 0.2$ | $11.7 \pm 0.1$ | $383 \pm 16$ | $142 \pm 29$ | $97 \pm 7$ |
|  | 189 (185-197) | 310 (298-317) | 120 (113-121) | 16.9 (16.6-17.2) | 11.7 (11.5-12.1) | 387 (351-410) | 119 (104-201) | 91 (90-111) |
| Petal fraction (PF) | $190 \pm 2$ | $315 \pm 14$ | $124 \pm 12$ | $17.3 \pm 0.8$ | $12.0 \pm 0.6$ | $409 \pm 26$ | $156 \pm 36$ | $112 \pm 15$ |
|  | 192 (187-193) | 322 (287-335) | 130 (100-143) | 17.8 (15.7-18.4) | 12.4 (10.9-12.8) | 407 (356-465) | 120 (118-228) | 104 (91-142) |
| $p$-Value ${ }^{*}$ |  |  |  |  |  |  |  |  |
| C vs. LF | 0.9695 | 0.2409 | 0.2516 | 0.3722 | - | 0.9916 | 0.1634 | 0.9519 |
| C vs. PF | 0.9456 | 0.6199 | 0.5364 | 0.6476 | - | 0.9916 | 0.2555 | 0.9418 |
| LF vs. PF | 0.9936 | 0.7073 | 0.7495 | 0.8343 | 0.8113 | 0.9916 | 0.9963 | 0.9519 |
|  | Organ to body weight ratio (in \%) ${ }^{4}$ |  |  |  | Intestinal digesta (g) |  |  | pH |
|  | Heart | Liver | Spleen | Brain | Filled cecum | Empty cecum | Part of the small intestine | Cecum |
| Control (C) | $0.233 \pm 0.007$ | $3.93 \pm 0.19$ | $0.21 \pm 0.03$ | $0.56 \pm 0.02$ | $2.72 \pm 0.10$ | $0.71 \pm 0.11$ | $4.5 \pm 1.5$ | $7.23 \pm 0.09$ |
|  | 0.239 (0.219-0.241) | 3.77 (3.70-4.31) | 0.27 (0.21-0.33) | 0.57 (0.53-0.59) | 2.68 (2.57-2.90) | 0.62 (0.57-0.93) | 5.58 (1.63-6.34) | 7.20 (7.08-7.40) |
| Leaf fraction (LF) | $0.246 \pm 0.009$ | $3.60 \pm 0.04$ | $0.28 \pm 0.04$ | $0.59 \pm 0.01$ | $2.49 \pm 0.14$ | $0.64 \pm 0.07$ | $4.5 \pm 1.4$ | $7.07 \pm 0.05$ |
|  | 0.249 (0.229-0.260) | 3.58 (3.56-3.68) | 0.29 (0.21-0.34) | 0.58 (0.58-0.62) | 2.61 (2.21-2.64) | 0.61 (0.54-0.77) | 5.88 (1.60-5.97) | 7.04 (7.01-7.17) |
| Petal fraction (PF) | $0.233 \pm 0.003$ | $3.94 \pm 0.43$ | $0.29 \pm 0.02$ | $0.59 \pm 0.03$ | $2.78 \pm 0.08$ | $0.55 \pm 0.04$ | $4.2 \pm 1.2$ | $7.23 \pm 0.18$ |
|  | 0.233 (0.227-0.238) | 3.56 (3.46-4.79) | 0.29 (0.26-0.32) | 0.56 (0.55-0.66) | 2.74 (2.67-2.94) | 0.57 (0.48-0.60) | 5.10 (1.89-5.68) | 7.29 (6.91-7.51) |
| $p$-Value* |  |  |  |  |  |  |  |  |
| C vs. LF | 0.3198 | 0.1760 | 0.8164 | 0.2502 | 0.2486 | 0.6388 | 0.9876 | 0.2260 |
| C vs. PF | 0.9709 | 0.9802 | 0.5722 | 0.5236 | 0.6436 | 0.2582 | 0.8834 | 0.9712 |
| LF vs. PF | 0.2404 | 0.4783 | 0.7968 | 0.9860 | 0.1442 | 0.3194 | 0.8961 | 0.4288 |

Values are expressed as the mean $\pm$ SEM and median (with Q1 and Q3) from $n=6$ rats per each group, ${ }^{*} p \leq 0.05$ (two-way ANOVA with Tukey's multiple comparisons test). N varies among bioassays due to limitations on samples volume collected from animal subjects and/or data outlier detection by the Grubbs' test. Q1 and Q3 are $25^{\text {th }}$ and $75^{\text {th }}$ percentiles. ${ }^{1}$ Calculated as: final body weight minus initial body weight. ${ }^{2}$ Daily food intake per animal during 28 days of dietary supplementation. ${ }^{3}$ Daily dandelion intake (DDI, mg) was calculated as: daily food intake (g) * $694 \mathrm{mg} / 1000 \mathrm{~g}$. daily HCAs intake ( mg ) was calculated as: DDI * $420 \mathrm{mg} / 1000 \mathrm{mg}$ for leaves and DDI * 214 $\mathrm{mg} / 1000 \mathrm{mg}$ for petals; daily L-chicoric acid intake ( mg ) was calculated as DDI * $350 \mathrm{mg} / 1000 \mathrm{mg}$ for leaves and DDI * $117 \mathrm{mg} / 1000 \mathrm{mg}$ for petals. ${ }^{4}$ The weight of the internal organs is calculated as: organ weight/final body weight (\%). Bold values indicate statistically significant differences. Abbreviations: BP, blood pressure; LF, leaf fraction; PF, petal fraction.

Table S2. Blood plasma glucose and lipid profile of experimental Wistar rats.

|  | Glucose (mmol/L) |  | Traditional lipid profile ( $\mathrm{mmol} / \mathrm{L}$ ) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | TG | TC | HDL-C | LDL-C |
| Control (C) | $17.6 \pm 0.9$ |  | $3.6 \pm 0.5$ | $3.2 \pm 0.2$ | $0.48 \pm 0.03$ | $0.44 \pm 0.02$ |
|  | 17.1 (16.1-19.4) |  | 3.1 (3.0-4.6) | 3.4 (2.9-3.5) | 0.50 (0.42-0.51) | 0.42 (0.42-0.47) |
| Leaf fraction (LF) | $18.4 \pm 0.2$ |  | $1.6 \pm 0.2$ | $2.4 \pm 0.4$ | $0.44 \pm 0.01$ | $0.39 \pm 0.03$ |
|  | 18.5 (18.1-18.7) |  | 1.5 (1.2-2.0) | 2.1 (1.9-3.1) | 0.45 (0.41-0.46) | 0.36 (0.35-0.46) |
| Petal fraction (PF) | $18.5 \pm 1.3$ |  | $2.7 \pm 0.4$ | $2.9 \pm 0.3$ | $0.45 \pm 0.05$ | $0.49 \pm 0.03$ |
|  | $19.1 \text { (16.0-20.5) }$ |  | 2.7 (2.1-3.4) | 2.7 (2.6-3.5) | 0.42 (0.38-0.56) | 0.48 (0.45-0.54) |
| $p$-Value* |  |  |  |  |  |  |
| C vs. LF | 0.8665 |  | 0.0262* | 0.05* | 0.7240 | 0.5270 |
| C vs. PF | 0.8262 |  | 0.2634 | 0.4481 | 0.8717 | 0.4487 |
| LF vs. PF | 0.9961 |  | 0.05* | 0.2910 | 0.9552 | 0.1345 |
|  | Nontraditional lipid profile ${ }^{1}$ |  |  |  |  |  |
|  | Non-HDL (mmol/L) | TC/HDL-C | LDL-C/HDL-C | AI | LCI | AIP |
| Control (C) | $2.8 \pm 0.2$ | $6.9 \pm 0.7$ | $0.93 \pm 0.09$ | $5.9 \pm 0.7$ | $11 \pm 3.1$ | $0.87 \pm 0.09$ |
|  | 2.9 (2.4-3.0) | 6.9 (5.7-8.0) | 0.84 (0.82-1.12) | 5.9 (4.7-7.0) | 9.0 (7.1-17.4) | 0.79 (0.77-1.04) |
| Leaf fraction (LF) | $1.9 \pm 0.4$ | $5.4 \pm 0.8$ | $0.89 \pm 0.07$ | $4.4 \pm 0.8$ | $4 \pm 1.4$ | $0.54 \pm 0.07$ |
|  | 1.7 (1.4-2.7) | 5.0 (4.1-7.0) | 0.85 (0.78-1.02) | 4.0 (3.1-6.0) | 2.7 (1.7-6.4) | 0.57 (0.40-0.65) |
| Petal fraction (PF) | $2.5 \pm 0.3$ | $6.7 \pm 1.1$ | $1.11 \pm 0.13$ | $5.7 \pm 1.1$ | $10 \pm 3.1$ | $0.78 \pm 0.10$ |
|  | 2.3 (2.1-3.1) | 7.0 (4.8-8.4) | 1.18 (0.86-1.29) | 6.0 (3.8-7.4) | 8.6 (4.7-15.3) | 0.86 (0.57-0.90) |
| $p$-Value* |  |  |  |  |  |  |
| C vs. LF | 0.2316 | 0.5279 | 0.9574 | 0.5279 | 0.05* | 0.0449* |
| C vs. PF | 0.8194 | 0.9931 | 0.4942 | 0.9931 | 0.8840 | 0.7597 |
| LF vs. PF | 0.4371 | 0.5846 | 0.3735 | 0.5846 | 0.2863 | 0.2446 |

Values are expressed as the mean $\pm$ SEM and median (with Q1 and Q3) from $n=6$ rats per each group, ${ }^{*} p \leq 0.05$ (two-way ANOVA with Tukey's multiple comparisons test). N varies among bioassays due to limitations on samples volume collected from animal subjects and/or data outlier detection by the Grubbs' test. Q1 and Q3 are $25^{\text {th }}$ and $75^{\text {th }}$ percentiles. ${ }^{1}$ A nontraditional lipid profile was calculated as non-HDL-C: TC minus HDL-C; LDL-C/HDL-C; AI, non-HDL-C/HDL-C; LCI, TC*TG*LDL-C/HDL-C; AIP, $\log 10(\mathrm{TG} / \mathrm{HDL}-\mathrm{C})$. Bold values indicate statistically significant differences. Abbreviations: AI, atherogenic index; AIP, atherogenic index of plasma; HDL-C, high-density lipoprotein cholesterol; LCI, lipoprotein combine index; LDL-C, low-density lipoprotein cholesterol; LF, leaf fraction; PF, petal fraction; TC, total cholesterol; TG, triglyceride.

Table S3. The antioxidant capacity of experimental Wistar rats.


Values are expressed as the mean $\pm$ SEM and median (with Q1 and Q3) from $n=6$ rats per each group, ${ }^{*} p \leq 0.05$ (two-way ANOVA with Tukey's multiple comparisons test). N varies among bioassays due to limitations on samples volume collected from animal subjects and/or data outlier detection by the Grubbs' test. Q1 and Q3 are $25^{\text {th }}$ and $75^{\text {th }}$ percentiles. Bold values indicate statistically significant differences. Abbreviations: LF, leaf fraction; PF, petal fraction.

