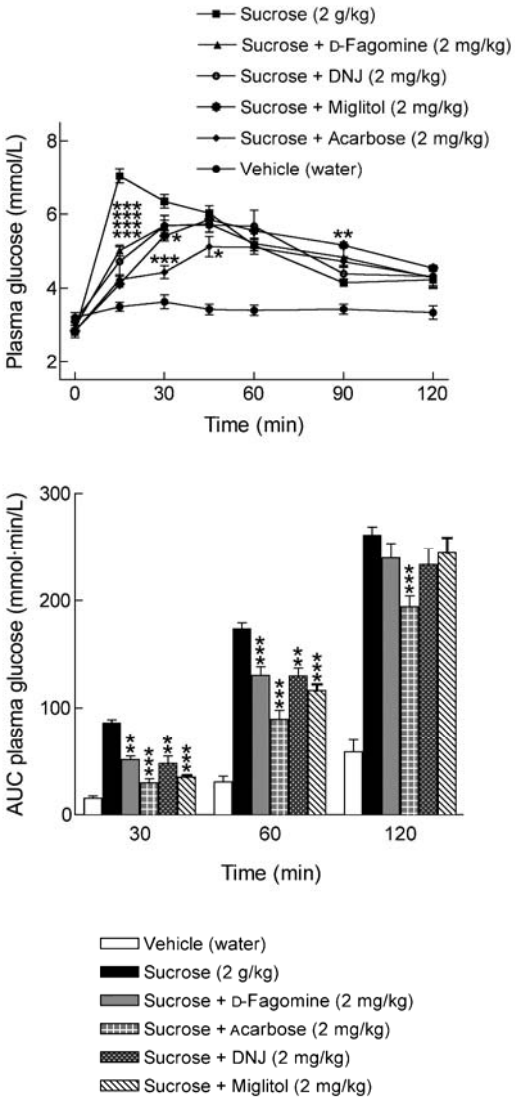
# D-Fagomine lowers postprandial blood glucose and modulates bacterial adhesion

## SUPPLEMENTAL MATERIAL




**Supplemental Fig. S1.** Effect of D-fagomine, DNJ, miglitol and acarbose (2 mg/kg body weight) on the glycaemic response of Sprague-Dawley rats after ingestion of sucrose (2 g/kg body weight). Normal rats were food-deprived for 12 h and then administered the carbohydrate and the tested agent together. Values are means with their standard errors of mean. Statistical differences were evaluated by 2-way ANOVA and Bonferroni's post test. Mean values significantly different from the control (sucrose 2 g/kg): $^{**}P<0•01$, $^{***}P<0•001$.

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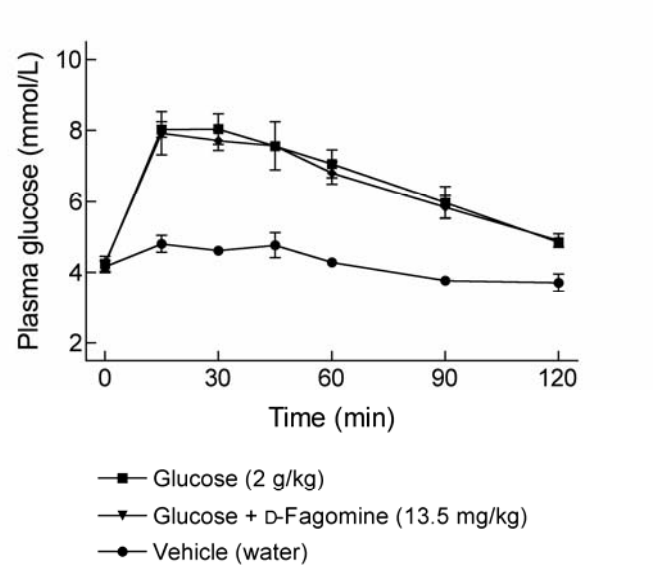


**Supplemental Fig. S2.** Absence of effect of D-fagomine (13·5 mg/kg body weight) on the glycemic response of Sprague-Dawley rats after ingestion of glucose (1 g/kg body weight). Normal rats were food-deprived for 12 h and then administered the D-glucose and D-fagomine together. Values are means with their standard errors of mean.

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**Supplemental Table S2**. Inhibition of bacterial viability expressed as percentage of CFU related to the positive control.

| Microorganism | CFU (%) in the presence of D-fagomine | | | | |
|---|---|---|---|---|---|
| | 20 mg/l (0·14 mM) | 200 mg/l (1·4 mM) | SEM | 2000 mg/l (14 mM) | SEM |
| *Streptococccus mutans* | 0 | 3·00 | 0·58 | 5·00 | 0·00 |
| *Streptococcus sanguis* | 0 | 1·00 | 0·00 | 2·00 | 0·00 |
| *Lactobacillus casei* | 0 | 10·00 | 1·16 | 15·00 | 0·58 |
| *Leuconostoc* spp. | 0 | 10·00 | 0·58 | 12·00 | 0·00 |
| *Lactococcus* spp. | 0 | 18·33 | 0·33 | 14·00 | 0·00 |
| *Campylobacter jejuni* | 0 | 9·00 | 0·58 | 15·00 | 1·16 |
| *S. enterica* serovar Typhi | 0 | 5·00 | 0·00 | 10·00 | 0·00 |
| *Escherichia coli* | 0 | 6·00 | 0·00 | 12·00 | 0·00 |
| *Clostridium perfringens* | 0 | 4·00 | 0·58 | 6·00 | 0·00 |
| *Mycobacterium* spp. | 0 | 3·00 | 0·58 | 5·00 | 0·00 |
| *Pseudomonas aeruginosa* | 0 | 1·00 | 0·00 | 2·00 | 0·00 |
| *Candida albicans* | 0 | 10·00 | 1·16 | 15·00 | 0·58 |
| *Saccharomyces cerevisiae* | 0 | 10·00 | 0·58 | 12·00 | 0·00 |