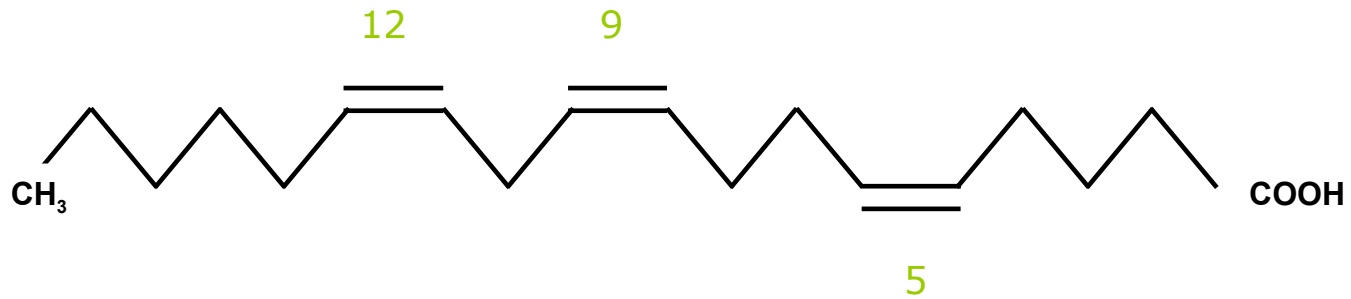


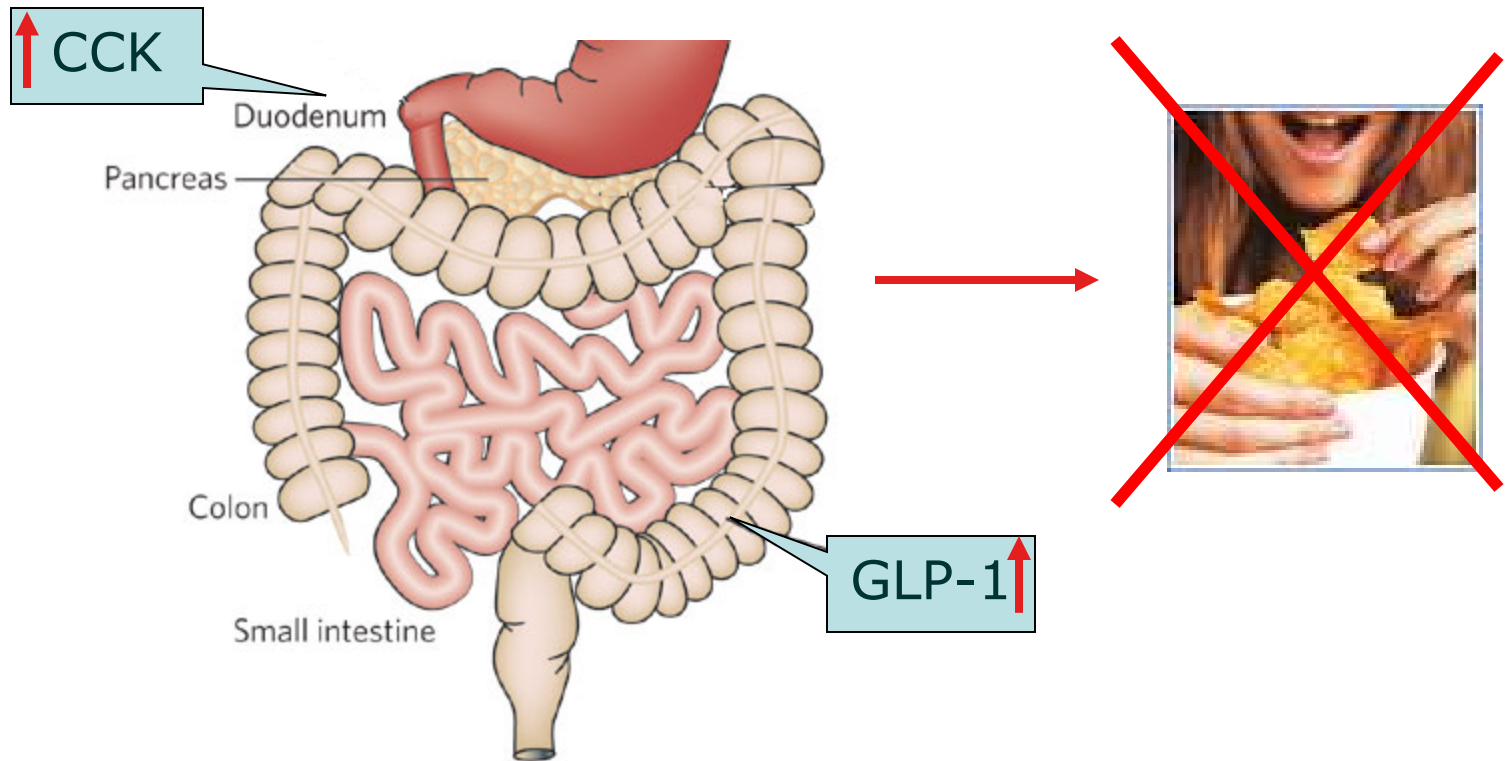
New studies confirm
satiety benefits

Pine nut oil

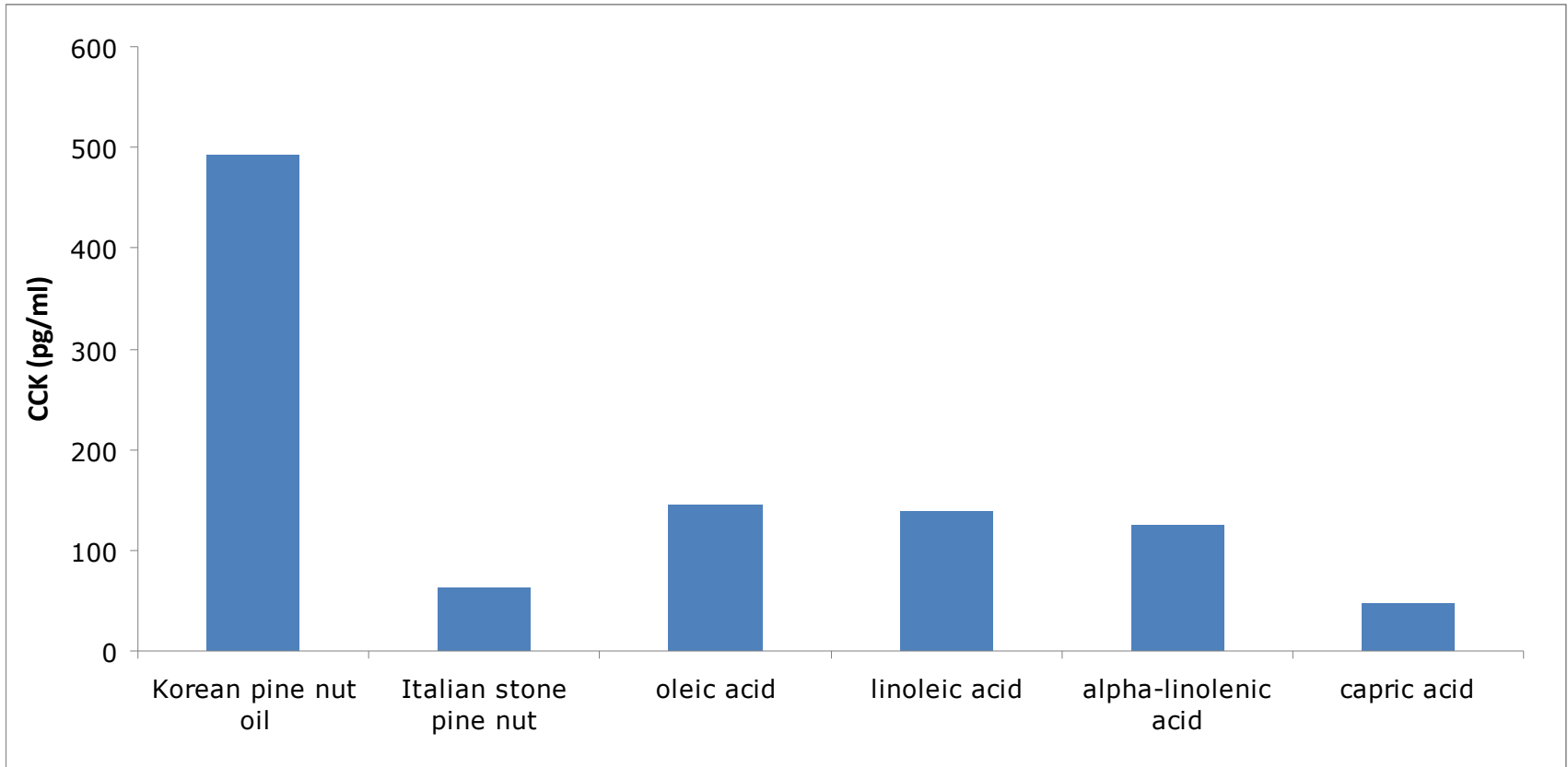
PinnoThin™



LCFA and satiety



CCK release *in vitro*



STC-1 endocrine cells at a 50 μ M dose for 60 min

Research

Open Access

The effect of Korean pine nut oil on in vitro CCK release, on appetite sensations and on gut hormones in post-menopausal overweight women

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Accepted: 20 March 2008

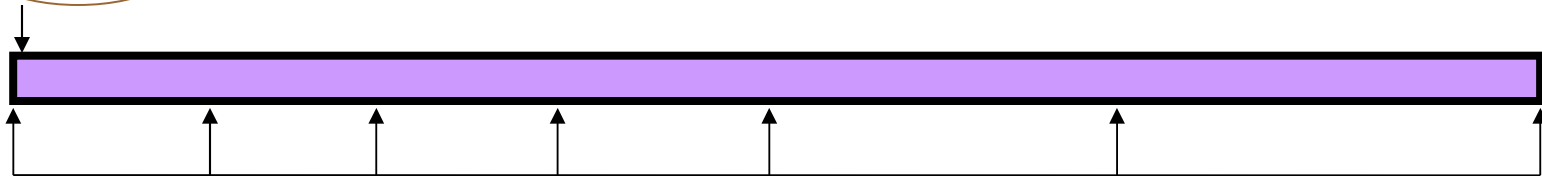
This article is available from: <http://www.lipidworld.com/content/7/1/10>

PinnoThin™ TNO

n = 18 women (BMI = 27.1 kg/m², age = 55 yrs)



& breakfast



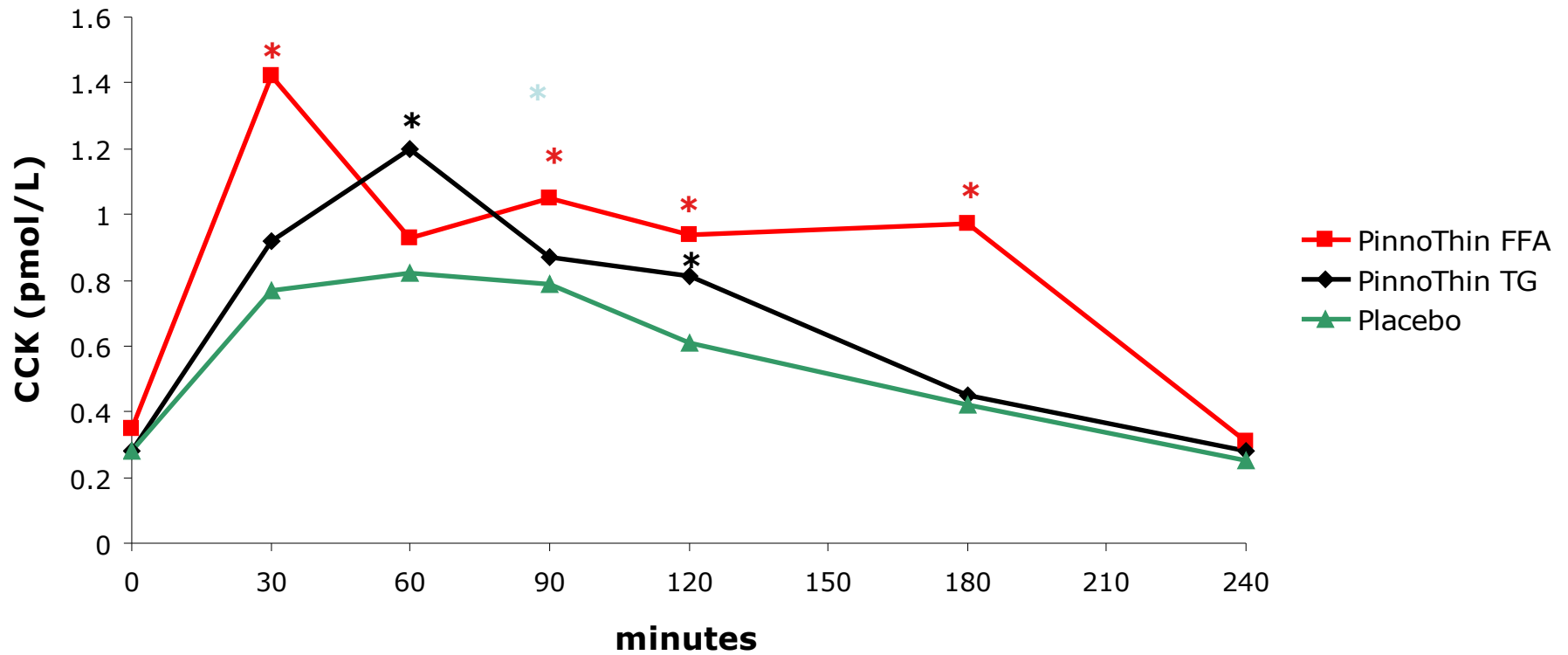
How hungry do you feel at this moment?

Not at all hungry

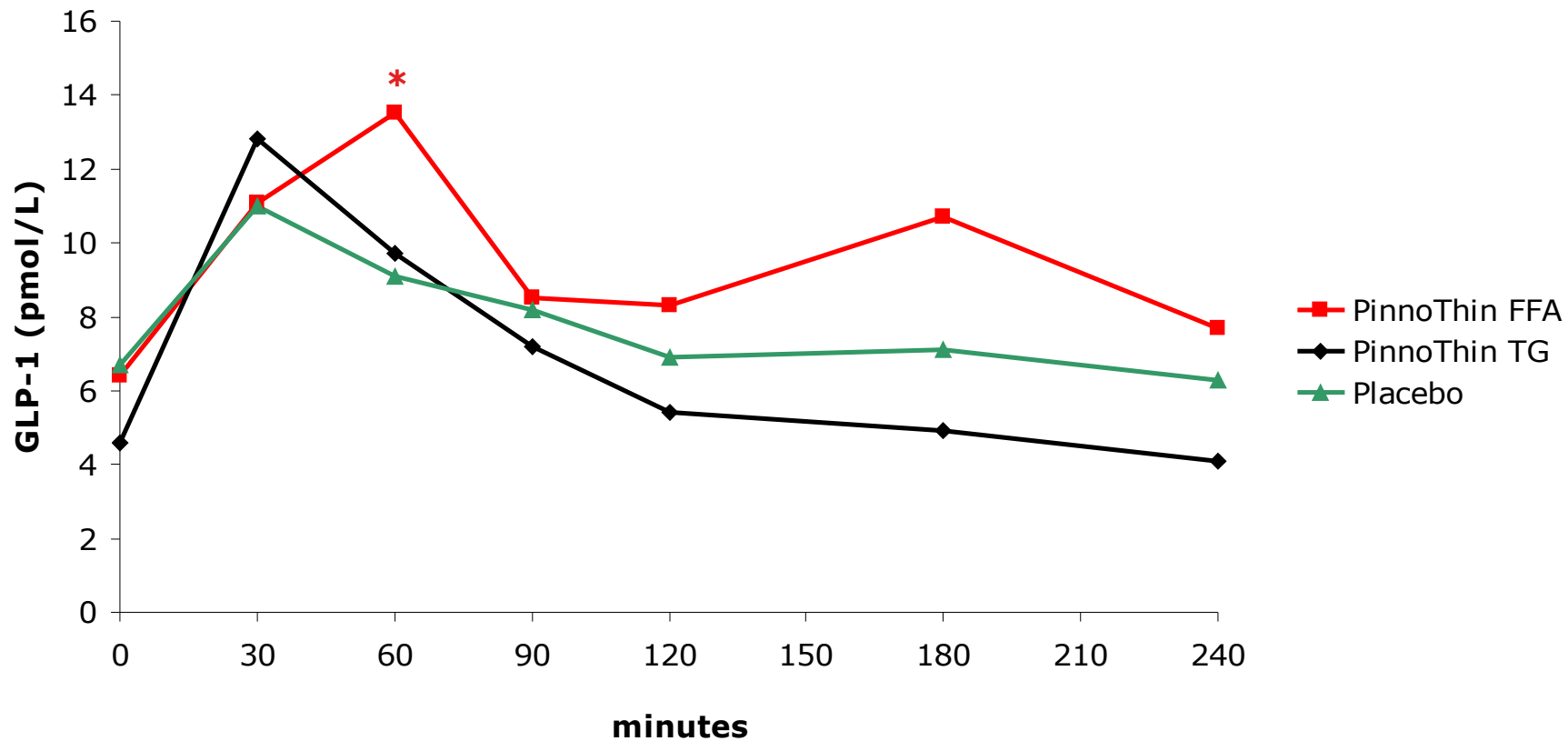


Extremely hungry

Effects of PinnoThin™ on CCK release

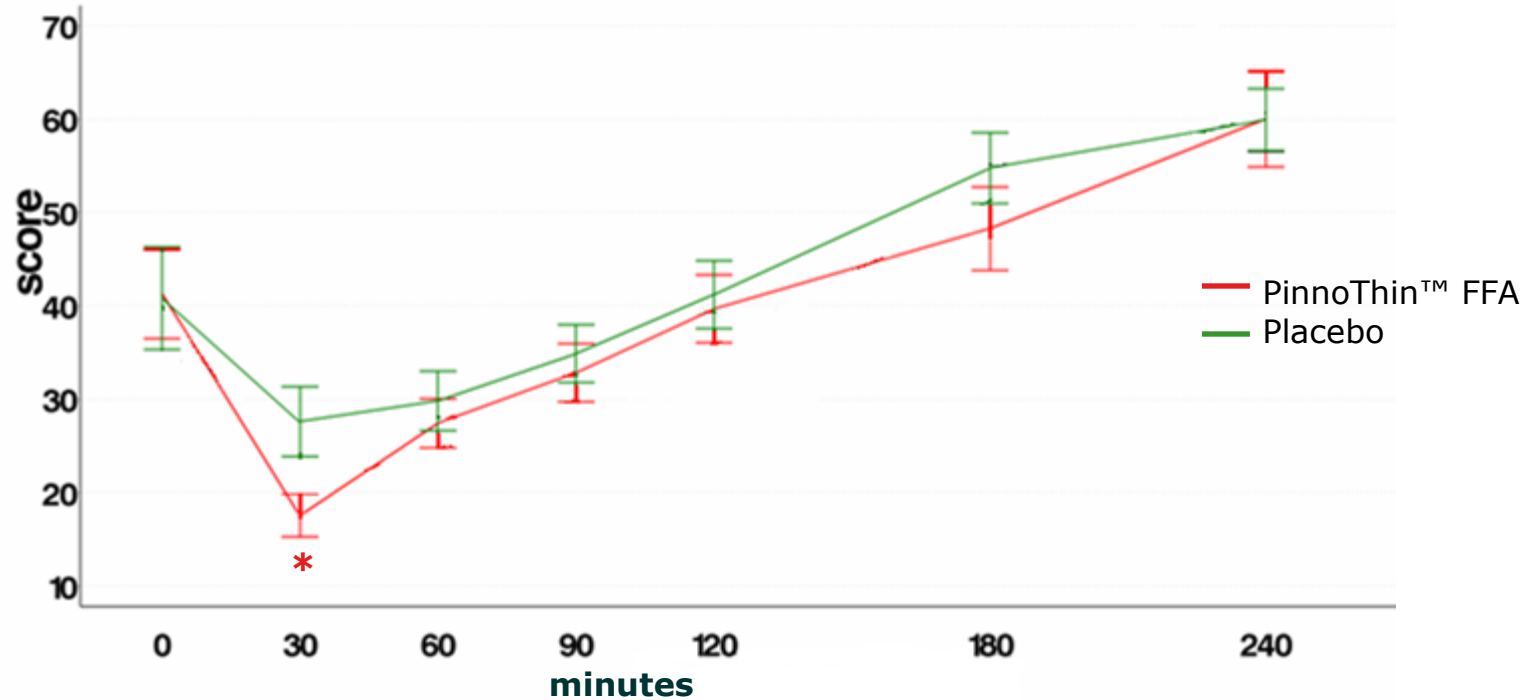


Effects of PinnoThin™ on **GLP-1** release



Source: Pasma et al, *Lipids in Health and Disease* 2008, 7:10

Effects of PinnoThin™ on prospective food intake



Research

Open Access

The effect of Korean pine nut oil (PinnoThin™) on food intake, feeding behaviour and appetite: A double-blind placebo-controlled trial

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Hiskias G Keizer - hiskias.keizer@lipidnutrition.com; Jason CG Halford* - j.c.g.halford@liverpool.ac.uk

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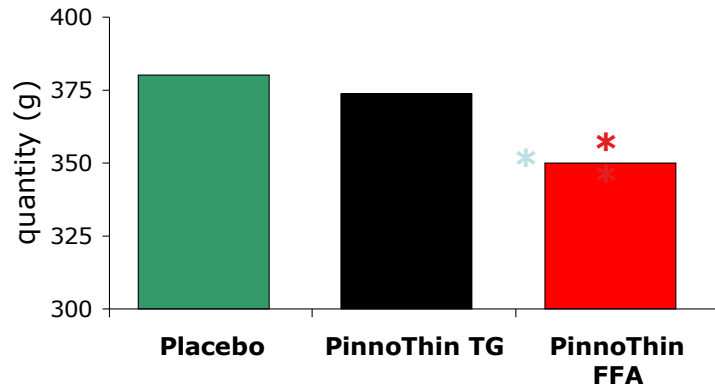
Received: 20 December 2007

Lipids in Health and Disease 2008, **7**:6 doi:10.1186/1476-511X-7-6

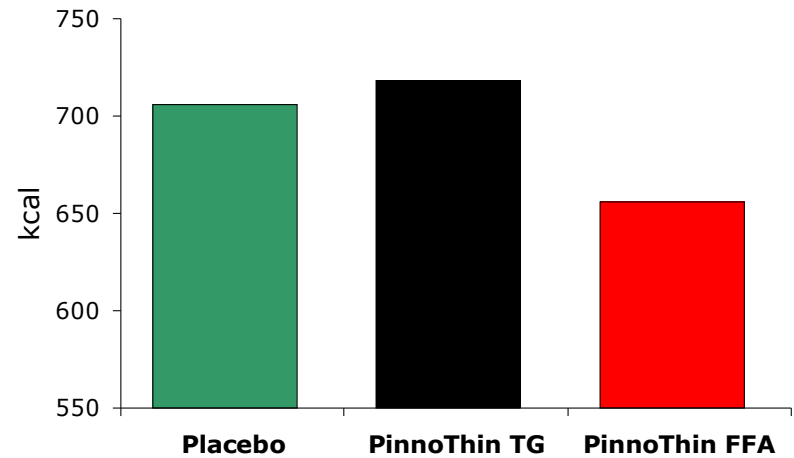
Accepted: 28 February 2008

This article is available from: <http://www.lipidworld.com/content/7/1/6>

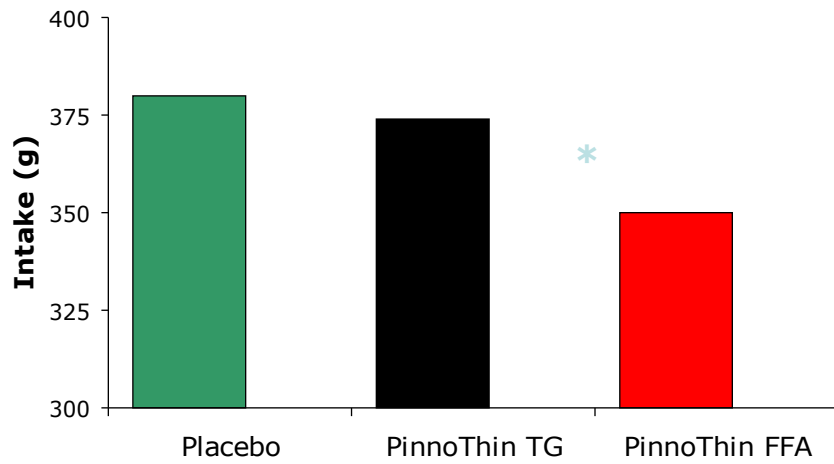
Lunch food intake



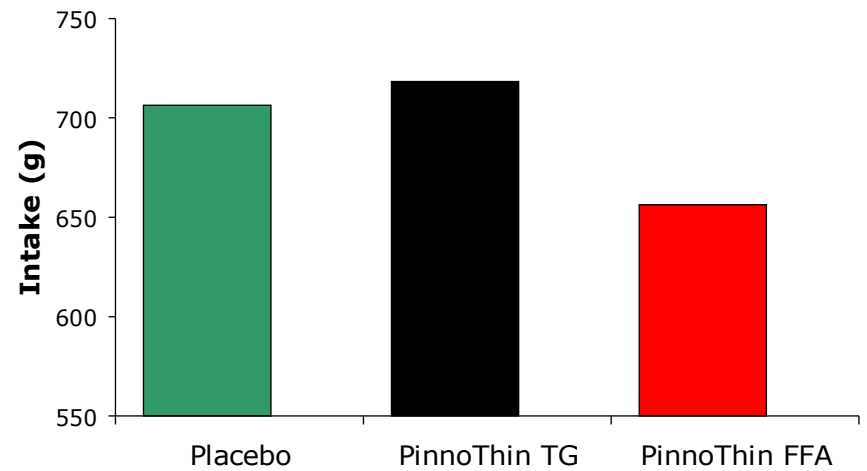
Lunch energy intake

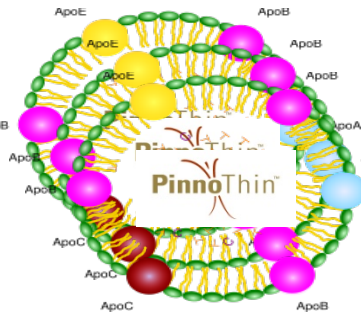


Lunch food intake

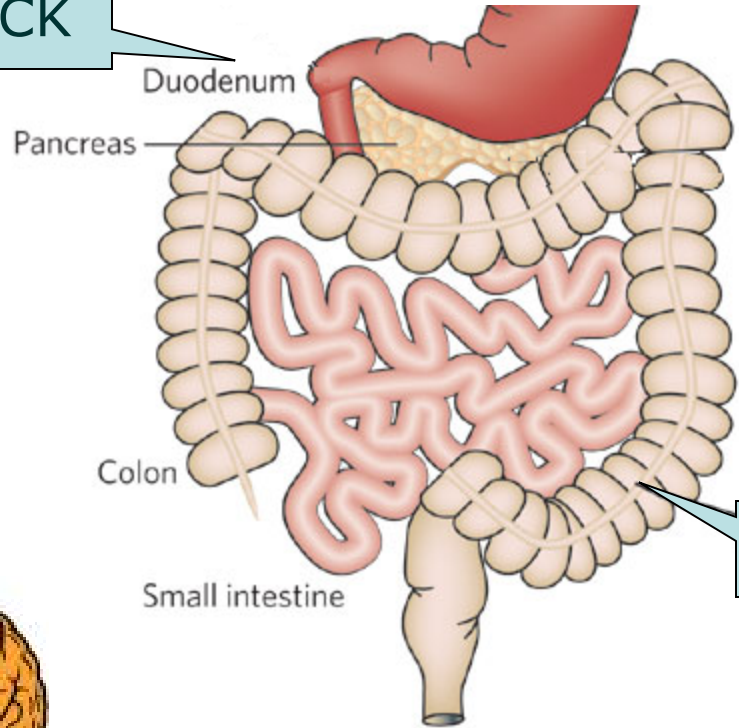


Dinner food intake

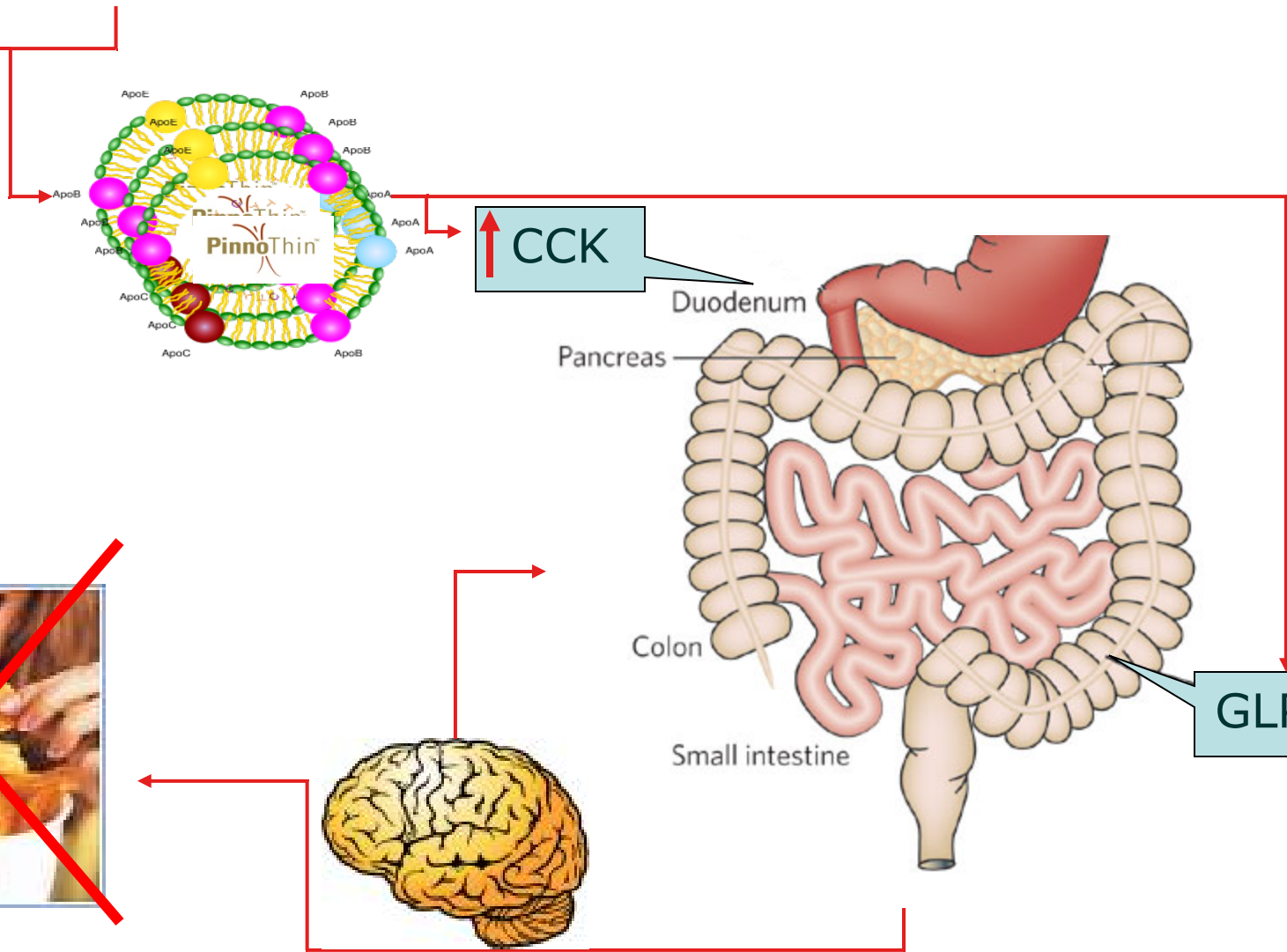
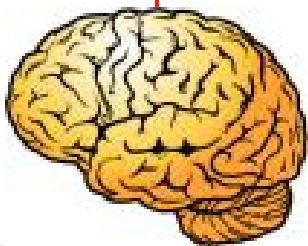




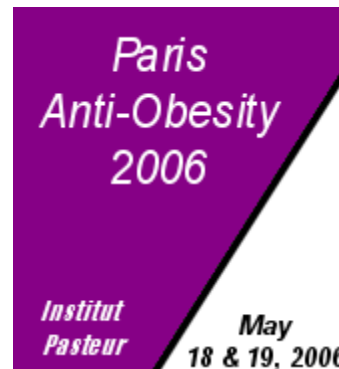
↑ CCK



GLP-1 ↑



PinnoThin introduction to the Scientific World



Awards for PinnoThin in 2006 – 2007

