Concentrate Supplementation Reduces Postprandial Plasma Ghrelin in Grazing Dairy Cows: A Possible Neuroendocrine Basis for Reduced Pasture Intake in Supplemented Cows. By Roche et al., page 1354. Plasma ghrelin concentration was monitored pre- and postfeeding in North American and New Zealand strains of Holstein-Friesian dairy cows receiving pasture and varying amounts of concentrate supplementation. North American cows had greater ghrelin concentrations, indicating a superior appetite potential. Concentrate supplementation linearly reduced plasma ghrelin concentration even following 2 h of unrestricted access to pasture, offering a possible neuroendocrine basis for the reduction in pasture intake when cows are offered concentrates.