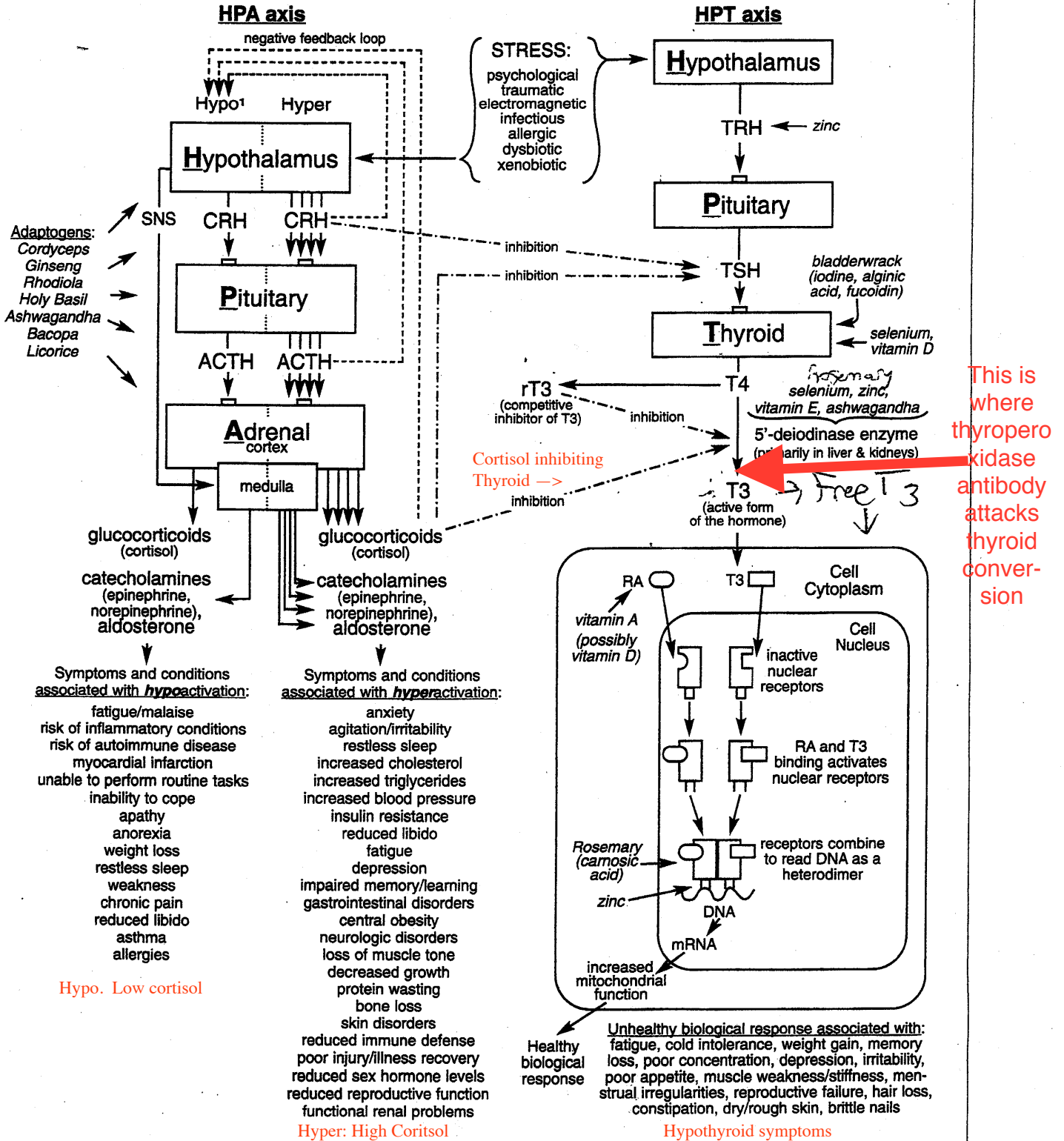


Figure 1. The Effects of Stress and Nutritional Support on the HPA / HPT Axes



1. Contributors to hypoactivation of HPA: a) reduced biosynthesis of CRH, ACTH, and cortisol due to organ hypofunction or depleted hormone precursors, b) CRH hypersecretion causing down-regulation of pituitary CRH receptors and reduced secretion of ACTH, c) increased negative feedback sensitivity, d) morphological changes (e.g., adrenal atrophy).

Acronym Key: ACTH: adrenocorticotropin hormone; CRH: corticotropin-releasing hormone; DNA: deoxyribonucleic acid; mRNA: messenger ribonucleic acid; RA: retinoic acid; rT3: reverse triiodothyronine; SNS: sympathetic nervous system; T3: triiodothyronine; T4: thyroxine; TRH: thyrotropin-releasing hormone; TSH: thyroid-stimulating hormone.

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