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NADH quinone oxidoreductase (complex I) pumps protons across the inner membrane of mitochondria or the plasma membrane of many bacteria. Human complex I is involved in numerous pathological conditions and degenerative processes. With 14 central and up to 3 accessory subunits, complex I is among the largest membrane-bound protein assemblies. T peripheral arm of the L-shaped molecule contains flavine mononucleotide and eight or nine iron-sulfur clusters as redox prosthetic groups. Seven of the iron-sulfur clusters form a lines electron transfer chain between flavine and quinone. In most organisms, the seven most hydrophobic subunits forming the core of the membrane arm are encoded by the mitochon genome. Most central subunits have evolved from subunits of different hydrogenases and bacterial Na<sup>+</sup>/H<sup>+</sup> antiporters. This evolutionary origin is reflected in three functional module complex I. The coupling mechanism of complex I most likely involves semiquinone interme that drive proton pumping through redox-linked conformational changes.

#### INTRODUCTION

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As one of the most fundamental metabolic principles, the vast majority of biochemical path involves "bound hydrogen" intermediates in the form of NADH, NADPH, or reduced flavoproteins. NADH generated in catabolic pathways is fed into energy converting electro transfer chains via NADH: quinone oxidoreductases. Three enzyme families catalyze this re This review focuses on proton translocating NADH: quinone oxidoreductase: This type of enzyme, usually called complex I, was first described in mitochondria (1), but it is also four many eubacteria where it is frequently termed NADH dehydrogenase-1 or NDH-1 (2, 3, Moreover, complex I is involved in bacterial photosynthetic electron transport (5–6). In some

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period.

#### **EARLY YEARS IN BALTIMORE**

My early years were uneventful. I was a good, but not outstanding, student. During my last two years of high school, to help support the family, I worked part-time in a large meat market as a butcher's assistant. I became quite a skillful meat cutter and was promised a full-time job after high school graduation, a not inconsequential prospect because the United States was still mired in the Depression, and the possibility of college after high school graduation was very remote. All of this changed with the attack on Pearl Harbor by the Japanese on Sunday, December 7, 1941. I can still recall the radio announcer breaking in on the broadcast of the New York Philharmonic Symphony to report that Pearl Harbor had been attacked. The following day, the entire student body of my high school assembled to hear the radio broadcast of President Franklin D. Roosevelt's speech, "December 7, 1941 a date that will live in infamy." I remem-

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Vol. 58: 71-91 (Volume publication date June 2007) (doi:10.1146/annurev.arplant.58.032806.103848) First published online as a Review in Advance on December 6, 2006

Hydrogenases and Hydrogen Photoproduction in Oxygenic Photosynthetic Organisms\*

Maria L. Ghirardi,<sup>1</sup> Matthew C. Posewitz,<sup>2</sup> Pin-Ching Maness,<sup>1</sup> Alexandra Dubini,<sup>1</sup> Jianping Yu,<sup>1</sup> and Michael Seibert<sup>1</sup>

<sup>1</sup>National Renewable Energy Laboratory, Golden, Colorado 80401; email: maria\_ghirardi@nrel.gov, pinching\_maness@nrel.gov, alexandra\_dubini@nrel.gov, jianping\_yu@nrel.gov, mike\_seibert@nrel.gov

<sup>2</sup>Colorado School of Mines, Environmental Science and Engineering Division, Golden, Colorado 80401; email: matthew\_posewitz@nrel.gov

The photobiological production of  $H_2$  gas, using water as the only electron donor, is a property of two types of photosynthetic microorganisms: green algae and cyanobacteria. In these organisms, photosynthetic water splitting is functionally linked to  $H_2$  production by the activity of

hydrogenase enzymes. Interestingly, each of these organisms contains only one of two major types of hydrogenases, [FeFe] or [NiFe] enzymes, which are phylogenetically distinct but perform the same catalytic reaction, suggesting convergent evolution. This idea is supported by the observation that each of the two classes of hydrogenases has a different metallo-cluster, is encoded by entirely different sets of genes (apparently under the control of different promoter elements), and exhibits different maturation pathways. The genetics, biosynthesis, structure, function, and O<sub>2</sub> sensitivity of these enzymes have been the focus of extensive research in recent years. Some of this effort is clearly driven by the potential for using these enzymes in future biological or biohybrid systems to produce renewable fuel or in fuel cell applications.

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the brain (particularly the hypothalamus) and the periphery, notably via the hormone leptin, which is synthesized in and secreted from adipose tissue. Under norm Annual Review of Medicine. Volume 52, Page 339-351, Feb 2001	Annual Review of Cell and Developmental Biology (8)
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Bone mass is maintained constant between puberty and menopause by the balance between osteoblast and osteoclast activity. The existence of a hormonal control of osteoblast activity has been speculated for years by analogy to osteoclast biology. Through the	Annual Review of Neuroscience (4)
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This chapter reviews the recent literature on hormonal and neural signals critical to the regulation of individual meals and body fat. Rather than eating in response to acute energy deficits, animals eat when environmental conditions (social and learned f	Restrict results to reviews written by:

Annual Review of Psychology. Volume 51, Page 255-277, Feb 2000

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# Resultado de Búsqueda - Leptina

Abstract

### Annual Review of Psychology

Vol. 51: 255-277 (Volume publication date February 2000) (doi:10.1146/annurev.psych.51.1.255)

FOOD INTAKE AND THE REGULATION OF BODY WEIGHT

Stephen C. Woods<sup>1</sup> Michael W. Schwartz<sup>2</sup> Denis G. Baskin<sup>2</sup> and Randy J. Seeley<sup>1</sup>

<sup>1</sup>Department of Psychiatry, University of Cincinnati Medical Center, Cincinnati, Ohio, 45267, email: steve.woods@psychiatry.uc.edu

<sup>2</sup>Division of Metabolism, Endocrinology and Nutrition, Department of Medicine, University of Washington, and the Puget Sound Veterans Administration Health Care System, Seattle, Washington, 98195,

This chapter reviews the recent literature on hormonal and neural signals critical to the regulation of individual meals and **body** fat. Rather than eating in response to acute energy deficits, animals eat when environmental conditions (social and learned factors, food availability, opportunity, etc.) are optimal. Hence, eating patterns are idiosyncratic. Energy homeostasis, the long-term matching of food intake to energy expenditure, is accomplished via controls over the size of meals. Individuals who have not eaten sufficient food to maintain their normal **weight** have lower levels of adiposity signals (**leptin** and insulin) in the blood and brain, and one consequence is that meal-generated signals (such as CCK) are less efficacious at reducing meal size. The converse is true if individuals are above their normal **weight**, when they tend to eat smaller meals. The final section reviews how these signals are received and integrated by the CNS, as well as the neural circuits and transmitters involved.

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# **Resultado de Busca - Leptina**

	Autors
Chain of Reviews: Annual Reviews chapters connected to this topic	Stephen C. Woods
	Michael W. Schwartz
Most recent citing papers (via CrossRef)	Denis G. Baskin
Altered Expression of SOCS3 in the Hypothalamic Arcuate Nucleus during Seasonal	Randy J. Seeley
Body Mass Changes in the Field Vole, Microtus agrestis	Kannandar
E. Król, A. Tups, Z. A. Archer, A. W. Ross, K. M. Moar, L. M. Bell, J. S. Duncan, C. Maver,	Keywords:
P. J. Morgan, J. G. Mercer	satiety
Journal of Neuroendocrinology 19(2):83 (2007)	energy homeostasis
[CrossRef]	
	neuropeptides
Nicotine regulates mRNA expression of feeding peptides in the arcuate nucleus in	leptin
neonatal rat pups	
<u>L.Z. Huang</u> , <u>U.H. Winzer-Serhan</u>	
Developmental Neurobiology 67(3):363 (2007)	hypothalamus
[CrossRef]	
Intracerebroventricular Infusion of Leptin into Mature Merino Rams of Different	SEARCH
Metabolic Status: Effects on Blood Concentrations of Glucose and Reproductive and	
Metabolic Hormones	
<u>P Celi, D Blache, MA Blackberry, GB Martin</u>	
Reproduction in Domestic Animals 41(1):79 (2006)	
[CrossRef]	

LMC International Food Congress 2006: Nutrigenomics and Health – From Vision to Food Scandinavian Journal of Nutrition 50(0):3 (2006) [CrossRef]

THE COW AS A MODEL TO STUDY FOOD INTAKE REGULATION <u>Michael S. Allen, Barry J. Bradford, Kevin J. Harvatine</u> Annual Review of Nutrition 25:523-547 (2005) Abstract | Full Text | PDF (210 KB)

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