

negli USA, negli ultimi 40 anni, le persone hanno ridotto la durata delle ore di sonno, in media, di 2 ore e la prevalenza di adulti che dormono meno di 7 ore per notte è più che raddoppiata dal 1961 al 2003, arrivando ad oltre 37%.



Papa
Polonia infelice:
Benedetto XVI nella
rete dei preti-spia p.48



Clima
Effetto serra,
effetto boom: ecco
chi ci guadagna p.36



Obesità
Scoperta: se
dormi poco rischi
di ingrassare p.142

L'ESPRESSO

Settimanale di politica cultura economia

N.2 anno LIII 18 gennaio 2007

SALUTE

BENESSERE / LA GUERRA AI CHILI DI TROPPO

Chili in dormive ingrassa

GLI EFFETTI COLLATERALI DEI DISTURBI "NOTTURNI" 

Chi non riposa è smemorato e grasso

Gli studi scientifici dimostrano che chi dorme poche ore si ammala di più, affatica il cuore e perde concentrazione

che facilitano la comunicazione tra cellule nervose. Il bisogno di dormire è quindi un sistema efficace dell'organismo per dare il via alla febbre e alle altre reazioni che consentono di combattere adeguatamente i virus. In

moria a lungo termine, quella che si "deposita" nel cervello e si mantiene negli anni, e ci permette di ricordare sia i nomi delle persone sia la capacità di fare, come guidare o suonare uno strumento. Lo fa pensare una ricerca

EDITORIAL |

A Good Night's Sleep: Future Antidote to the Obesity Epidemic?

Jeffrey S. Flier, MD

Joel K. Elmquist, DVM, PhD

Beth Israel Deaconess Medical Center

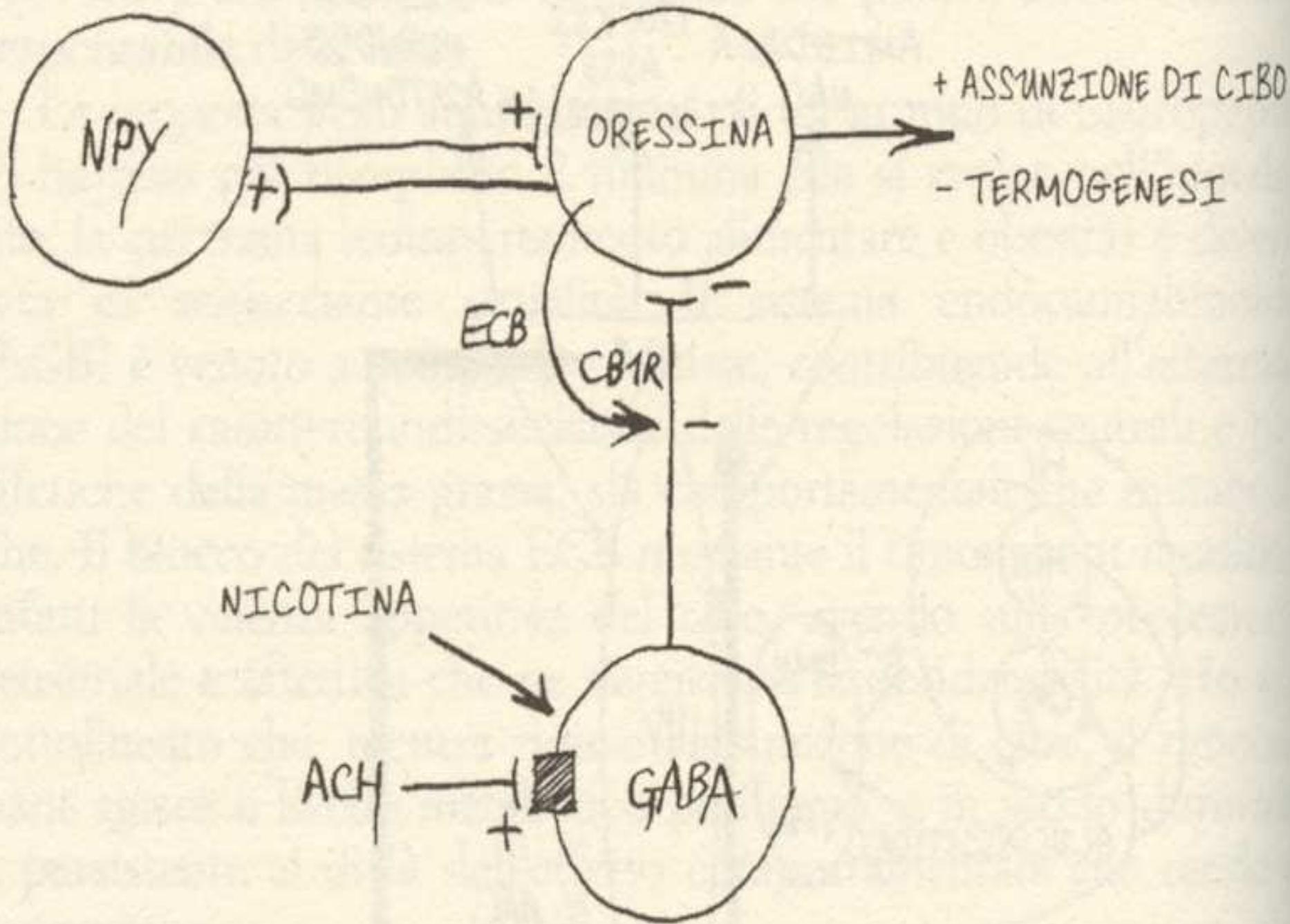
Boston, MA 02215

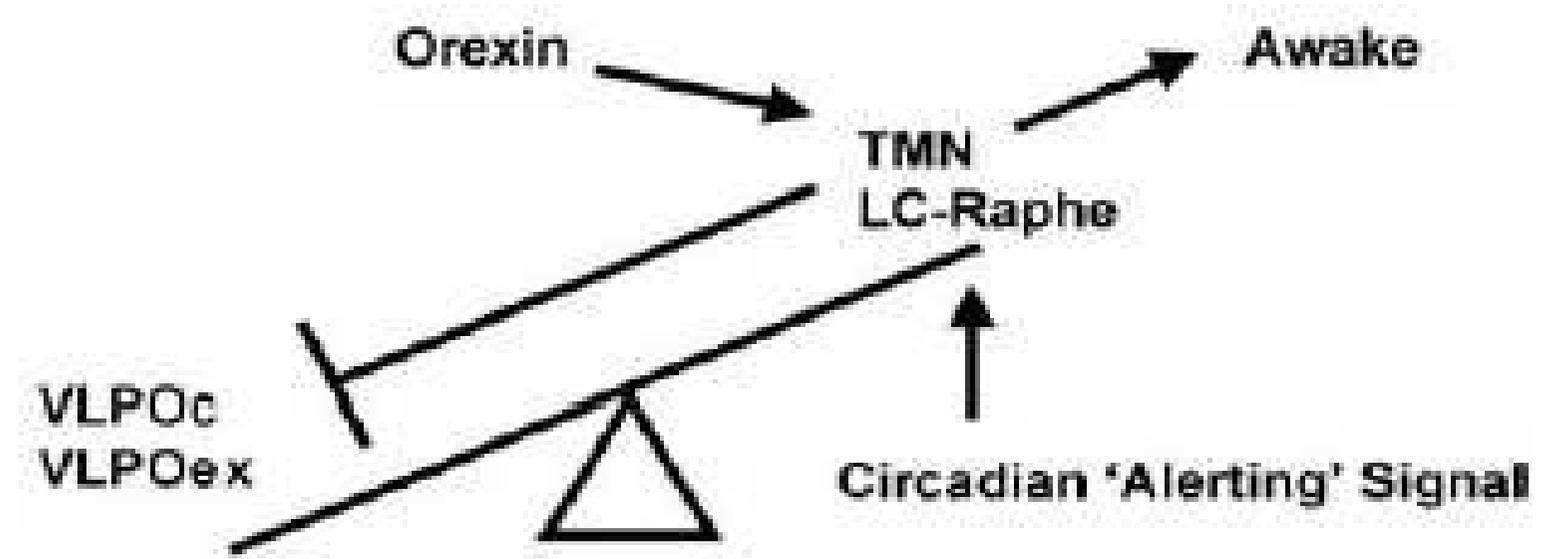
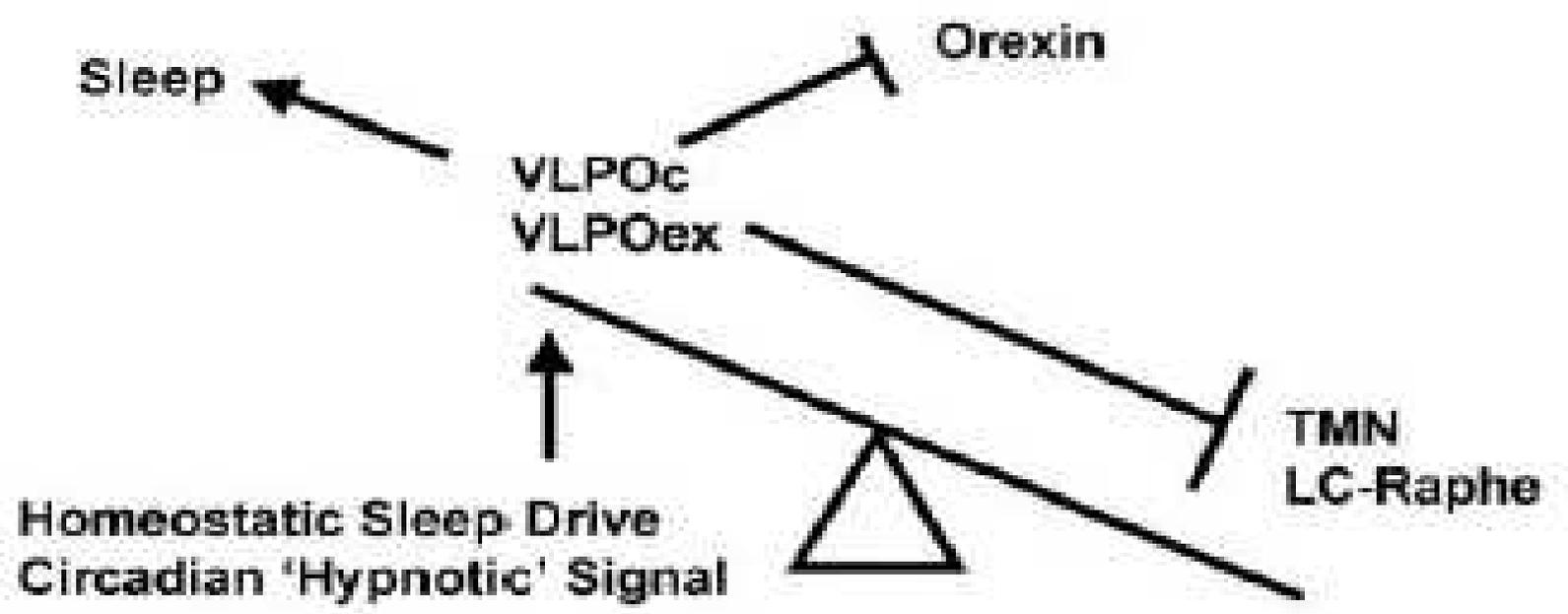
7 December 2004 | Annals of Internal Medicine | Volume 141 • Number 11 | **885**

Il sonno svolge un'influenza sui livelli di leptina e di grelina: più si dorme, più aumenta la leptina e più diminuisce la grelina e viceversa

(Spiegel K et al: Ann Intern Med Brief communication: Sleep curtailment in healthy young men is associated with decreased leptin levels, elevated ghrelin levels, and increased hunger and appetite. 2004 Dec 7;141(11):846-50;

TAHERI S et al Short sleep duration is associated with reduced leptin, elevated ghrelin, and increased body mass index. Plos Med 2004 Dec;1(3):e62. Epub 2004 Dec 7)





Insufficient Sleep Undermines Dietary Efforts to Reduce Adiposity

Arlene V. Nedeltcheva, MD; Jennifer M. Killus, MS; Jacqueline Imperial, RN; Dale A. Schoeller, PhD; and Plamen D. Penev, MD, PhD

Conclusion: The amount of human sleep contributes to the maintenance of fat-free body mass at times of decreased energy intake. Lack of sufficient sleep may compromise the efficacy of typical dietary interventions for weight loss and related metabolic risk reduction.

Primary Funding Source: National Institutes of Health.

Light at night increases body mass by shifting the time of food intake.

Fonken LK, Workman JL, Walton JC, Weil ZM, Morris JS, Haim A, Nelson RJ.

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Abstract

I topolini esposti a una luce fioca nelle ore notturne ingrassano il 50% in più rispetto a quelli che seguono il fisiologico ciclo luce/buio, nonostante un apporto e un consumo calorici equivalenti. La luce ingrassa, hanno scoperto gli esperti, perché induce l'animale a mangiare alle ore sbagliate.

Obesity in mammals.

Sleep restriction is not associated with a positive energy balance in adolescent boys.

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Abstract

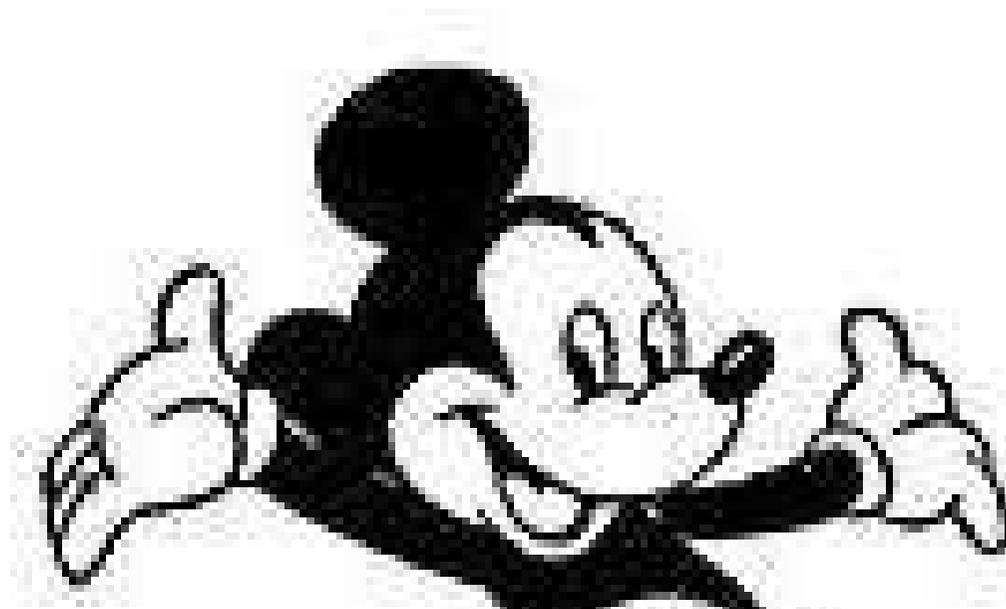
BACKGROUND: A short sleep (SS) duration has been linked to obesity in observational studies. However, experimental evidence of the potential mechanisms of sleep restriction on energy balance is conflicting and, to our knowledge, nonexistent in adolescents.

OBJECTIVE: We investigated the effects of 3 consecutive nights of partial sleep deprivation on components of energy balance.

DESIGN: In a randomized, crossover design, 21 healthy, normal-weight male adolescents (mean \pm SD age: 16.8 \pm 1.3 y) completed the following 2 experimental conditions, each for 3 consecutive nights: an SS (4 h/night) and a long sleep (LS; 9 h/night) duration. Endpoints were 24-h energy expenditure (EE), spontaneous physical activity (SPA), postintervention diet-induced thermogenesis (DIT), appetite sensations, ad libitum energy intake (EI), and profiles of plasma ghrelin and leptin.

RESULTS: The 24-h EE on day 3 was 370 \pm 496 kJ higher in the SS condition than in the LS condition ($P = 0.003$). This difference in EE was explained by prolonged wakefulness in the SS condition and a 19% higher SPA ($P = 0.003$). In a postintervention breakfast-meal challenge, there was a 0.19-kJ/min smaller incremental AUC in DIT over 4 h in the SS condition than in the LS condition ($P = 0.012$) with no time \times condition effect ($P = 0.29$). Subjects consumed 13% less energy in the ad libitum meal in the SS condition ($P = 0.031$), with a concomitant decreased motivation to eat. Concentrations of ghrelin and leptin remained unchanged with sleep restriction.

CONCLUSION: Short-term sleep restriction in male adolescents is associated with a small negative energy balance driven by increased EE from prolonged wakefulness and a concomitant decreased EI and motivation to eat. This trial was registered at clinicaltrials.gov as NCT01198431.



Ne “La scarpa magica” (1953)

Topolino sale su un treno il cui
cartellone dice:

Partenza: ora

Arrivo: forse