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Catecholamines, opiates, and vagal afferents in the nucleus of the solitary tract. In Advances in pharmacology: Catecholamines: bridging basic science with clinical medicine (Vol. 42, pp. 642-5). Academic Press.

### **Catecholamines, opiates, and vagal afferents in the ...**

Sidney Udenfriend (1918-1999) was one of the great pioneers in catecholamine (CA) research, and

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opened the way for the development of CA's as the key molecules bridging basic science with clinical science.

### **Molecular Genetics of Catecholamines: Key Molecules ...**

CATECHOLAMINES BRIDGING BASIC SCIENCE WITH CLINICAL MEDICINE Edited by David S. Goldstein Graeme Eisenhofer Clinical Neuroscience Branch National Institute of Neurological Disorders and Stroke National Institutes of Health Bethesda, Maryland Richard McCarty Department of Psychology University of Virginia Charlottesville, Virginia ACADEMIC PRESS

### **CATECHOLAMINES**

Catecholamines (CA) act as neurotransmitters or hormones and are produced by neuronal and neuroendocrine cells that contain a dedicated catecholaminergic biosynthetic pathway (Goldstein et al., 1997). These monoamines include dopamine, noradrenaline and adrenaline, and derive from the conversion of the amino acid tyrosine by specific enzymes whose « chef de file » is the rate-limiting enzyme tyrosine hydroxylase (TH).

### **Three-dimensional mapping of tyrosine hydroxylase in the ...**

In Catecholamines—bridging basic science with clinical medicine, ed. D. S. Goldstein and R. McCarthy, 129-132. San Diego: Academic Press. patients with panic disorder has provided FIGURE 106.4 Top, Coronary angiograms in a patient with panic disorder, performed because of recurrent angina.

### **Panic Disorder - ScienceDirect**

Basic Neurochemistry: Molecular, Cellular and Medical Aspects. 6th edition. Philadelphia: Lippincott-Raven; 1999. By agreement with the publisher, this book is accessible by the search feature, but cannot be browsed.

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## **References - Basic Neurochemistry - NCBI Bookshelf**

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## **Catecholamines : bridging basic science with ... - CORE**

The catecholamines dopamine (DA) and norepinephrine provide an essential modulatory influence on the working memory and attentional functions of the prefrontal cortex (PFC).

## **Catecholamine regulation of the prefrontal cortex - Amy F ...**

Coeditor of "Catecholamines: Bridging Basic Science with Clinical Medicine" Volume 42 in the series "Advances in Pharmacology". (Eds.) Goldstein D.S., Eisenhofer G., McCarty R. Academic Press, London, 1998. Guest Editor for Experimental Neurology (volume 135 No 2).

## **Curriculum Vitae - Graeme Eisenhofer, Ph.D. — Deutsch**

Catecholamines play a key role in nutrient metabolism and the generation of body heat (thermogenesis). They stimulate not only oxygen consumption but also consumption of fuels, such as glucose and free fatty acids, thereby generating heat.

## **Catecholamine | chemical compound | Britannica**

At physiological pH, catecholamines are predominantly protonated, i.e. belong to the group of organic cations (Mack & Bönisch, 1979), which raises the hypothesis of OCT1 being involved in hepatic and renal extraction of monoamine transmitters. Until now, however, unambiguous experimental evidence that OCT1 accepts monoamine transmitters as substrates is lacking.

## **Catecholamine transport by the organic cation transporter ...**

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### **The Need for Personal Space - video dailymotion**

Amara, S.G., et al., Molecular physiology and regulation of catecholamine transporters., in Catecholamines: Bridging Basic Science with Clinical Medicine, Adv. Catecholamines in Pharmacology, Vol. 42, eds. Goldstein, D.S., Eisenhofer, G., McCarty, R., pp.164-168 Academic Press, Inc., San Diego (1998).

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