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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	A novel cysteine sulfinic acid decarboxylase knock-out mouse: Comparison of Newborn and Weanling Mice -- A novel cysteine sulfinic acid decarboxylase knock-out mouse: Pathology of the kidney and lung in newborn pups -- Insights into taurine synthesis and function from the Cdo1 knockout mouse -- Oxidation of hypotaurine and cysteine sulfic acid by peroxidise-generated reactive species -- Increased N-acetyltaurine in serum and urine after endurance exercise in human -- Effects of taurine depletion on syncytiotrophoblast renewal and susceptibility to oxidative stress in human placenta -- In vitro analysis of taurine as anti-stress agent in tomato (Solanum lycopersicum) Preliminary study -- A Novel Cysteine Sulfinic Acid Decarboxylase Knock-out Mouse: Immune Function (I) -- Taurine chloramine, the taurine metabolite from inflammatory neutrophils, inhibits osteoclast differentiation by linking NFATc1 -- Impact of taurine on innate and adaptive immunity as the result of HOCl neutralization -- Taurine haloamines and biofilm: I. Antimicrobial activity of taurine bromamine and chlorhexidine against biofilm forming Pseudomonas aeruginosa --

Taurine haloamines and biofilm: II. Efficacy of taurine bromamine and chlorhexidine against selected microorganisms of oral biofilm -- Thiotaaurine modulates human neutrophil activation -- Perinatal taurine exposure alters hematological and chemical properties of blood in adult male rats -- Effect of taurine on viability and proliferation of murine melanoma B16F10 cells -- Investigation of antioxidant and anticancer potential of taurine by means of multiple chemical and biological assays -- Effect of taurine on in vitro migration of MCF-7 and MDA-MB-231 human breast carcinoma cells -- Effect of taurine on prostate-specific antigen level and migration in human prostate cancer cells -- The quest for an animal model of diabetic nephropathy and the role of taurine deficiency -- Taurine can enhance the protective actions of metformin against diabetes-induced alterations adversely affecting renal function -- Evaluation of the actions of metformin and taurine, singly and in combination, on metabolic and oxidative alterations caused by diabetes in rat erythrocytes and plasma -- Taurine ameliorates hypercholesterolemia but not obesity in rats fed a lard-based, high-fat diet -- Impact of light ethanol intake and of taurine, separately and together on pathways of glucose metabolism in the kidney of diabetic rats -- Hypoglycemia is one possible mechanism of the combined toxicity of ethanol and taurine -- Role of taurine on the actions of alcohol against systemic and cardiac biochemical changes in the diabetic rat -- Long-term taurine supplementation leads to hyperglycemia and lower liver Akt phosphorylation in mice fed a high fat diet -- Taurine supplementation enhances insulin secretion without altering islet morphology in non-obese diabetic mice -- Taurine supplementation regulates pancreatic islet function in response to potentiating agents in leptin-deficient obese mice -- Effects of a high fat diet and taurine supplementation on metabolic parameters and skeletal muscle mitochondrial function in rats -- Taurine and regulation of mitochondrial metabolism -- Open questions concerning taurine, with emphasis on the brain -- Taurine supplementation induces hyperinsulinemia and neuronal excitability -- Taurine recovers mice emotional learning and memory disruptions associated with Fragile X Syndrome in context fear and auditory cued-conditioning -- Contribution of Taurine Signatures in the Detached Cat Retina -- Effect of taurine on the secretion of reproductive hormone in female rats -- Taurine enhances proliferation and promotes neuronal specification of murine and human neural stem/progenitor cells -- Effects of chronic taurine administration on the gene and protein expression and the phosphorylation in rat hippocampus -- Potential anti-aging role of taurine via proper protein folding: A study from taurine transporter knockout mouse -- Analysis of taurine as modulator of neurotransmitter in *C. elegans* -- The changes by hypoxia inducible factor1-alpha (HIF1-alpha) on taurine uptake in brain capillary endothelial cells at high glucose conditions -- Thiotaaurine protects mouse cerebellar granule neurons from potassium deprivation-induced apoptosis by inhibiting the activation of caspase-3. Experimental study of taurine on the cerebral dehydrogenase activity in the model of unilateral cerebral ischemia -- Taurine Targets the GluN2B-Containing NMDA Receptor Subtype -- Experimental study of taurine antitoxic activity in the model of chronic adrenal intoxication -- Does taurine prolong lifespan by improving heart function?- Taurine depletion decreases GRP78 expression and downregulates PERK-dependent activation of the unfolded protein response -- The effect of taurine depletion on glucose metabolism in cardiac myocytes -- Taurine supplementation prevents the adverse effect of high sugar intake on arterial pressure control after cardiac ischemia/reperfusion in female

rats -- Effects of taurine on blood index of hypothalamic pituitary adrenal (HPA) axis of stress-induced hypertensive rat -- Taurine in 24-hour urine is inversely related to cardiovascular risks in middle aged subjects of 50 populations in the world -- Use of Taurine during rehabilitation after cardiac surgery -- Newer Insights into the Taurinuria of Vitamin D Deficiency: A Review -- The effect of perinatal taurine on adult renal function does not appear to be mediated by taurine's inhibition of the renin-angiotensin system -- Perinatal taurine depletion alters the renal excretory effect of renin-angiotensin system in adult female rats -- Fructose feeding changes taurine homeostasis in Wistar rats -- Effects of taurine supplementation in adipose tissue of obese trained rats -- The effect of Taurine supplementation upon glucose homeostasis: The role of insulin degrading enzyme -- The association among dietary taurine intake, obesity and quality of sleep in Korean adult women -- Taurine supplementation leads to a disruption of energy homeostasis in menopausal obese mice -- Effects of paternal hypothalamic obesity and taurine supplementation on adiposity and vascular reactivity in rat offspring -- Taurine supplementation reduces eccentric exercise-induced delayed onset muscle soreness in young men -- The effects of taurine administration against inflammation in heavily exercised skeletal muscle of rats -- Needs assessment for development of health functional taurine food in Korean college students -- Taurine accelerate alcohol and fat metabolism of rats with alcoholic fatty liver disease -- Protective effect of mussel (*Mytilus coruscus*) extract containing taurine against AAPH-induced oxidative stress in zebrafish model -- Anti-inflammatory effect of short neck clam (*Tapes philippinarum*) water extract containing taurine in zebrafish model -- In vitro and in vivo antioxidant and anti-inflammatory activities of abalone (*Haliotis discus*) water extract -- Effect of N-(D-ribopyranosyl) taurine sodium salt supplementation on hepatic antioxidant system in diet-induced obesity and taurine deficiency rat model -- Evaluation of the toxicity of a single oral dose of the N-(D-ribopyranosyl) taurine sodium salt in mice -- N-(-D-Xylopyranosyl) taurine sodium salt supplementation affects on the hepatic antioxidant system in rats fed high fat diet and -alanine -- A safety assessment of N-(-D-xylopyranosyl) taurine sodium salt in male and female ICR mice -- Anti obesity and hypolipidemic effects of N-(-D-xylopyranosyl) taurine sodium salt supplementation in rats fed high fat diet and -alanine -- N-(D-ribopyranosyl) taurine sodium salt has anti obesity effect in diet-induced obesity and taurine deficiency rat model.

## Sommario/riassunto

Taurine 9 contains original articles and critical reviews based on the oral and poster presentations of XIX International Taurine Meeting held in Kraków, Poland in May 2014. The purpose of the book is to present current ideas, new avenues and research regarding biological functions and clinical applications of taurine and taurine derivatives. It focuses on all aspects of taurine research including the cardiovascular system, the immune system, diabetes, the central nervous system, endocrine system and the role of taurine supplements in nutrition. It also includes presentations of novel animal experimental models using Cdo1 and CSAD knock-out mice.