Record Nr. UNINA9910130736903321 Present knowledge in nutrition / / edited by John W. Erdman Jr., Ian A. **Titolo** Macdonald, Steven H. Zeisel Pubbl/distr/stampa Ames, Iowa, : International Life Sciences Institute, : Wiley-Blackwell, 2012 **ISBN** 0-470-96310-7 1-299-31370-1 1-118-44530-9 0-470-96307-7 1-119-94604-2 Edizione [10th ed.] 1 online resource (1329 p.) Descrizione fisica Altri autori (Persone) ErdmanJohn W MacDonaldlan <1952-> ZeiselSteven H Disciplina 613.2 Soggetti Nutrition Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Present Knowledge in Nutrition; Contents; List of Contributors; Preface; Acknowledgments: 1: SYSTEMS BIOLOGY APPROACHES TO NUTRITION: 2: NUTRITIONAL EPIGENETICS; 3: GENETIC VARIATION AND NUTRIENT METABOLISM; 4: METABOLOMICS; 5: ENERGY METABOLISM IN FASTING, FED, EXERCISE, AND RE-FEEDING STATES; 6: PROTEIN AND AMINO ACIDS; 7: CARBOHYDRATES; 8: DIETARY FIBER; 9: LIPIDS: ABSORPTION AND TRANSPORT; 10: LIPIDS: CELLULAR METABOLISM; 11: VITAMIN A; 12: CAROTENOIDS; 13: VITAMIN D; 14: VITAMIN E; 15: VITAMIN K; 16: VITAMIN C; 17: THIAMIN; 18: RIBOFLAVIN; 19: NIACIN; 20: VITAMIN B6; 21: FOLATE 22: VITAMIN B1223: BIOTIN; 24: PANTOTHENIC ACID; 25: L-CARNITINE; 26: CHOLINE; 27: DIETARY FLAVONOIDS; 28: CALCIUM; 29: PHOSPHORUS: 30: MAGNESIUM: 31: SODIUM, CHLORIDE, AND

POTASSIUM; 32: HUMAN WATER AND ELECTROLYTE BALANCE; 33: IRON; 34: ZINC; 35: COPPER; 36: IODINE AND IODINE DEFICIENCY DISORDERS; 37: SELENIUM; 38: MANGANESE, MOLYBDENUM, BORON,

CHROMIUM, AND OTHER TRACE ELEMENTS; 39: MATERNAL NUTRIENT METABOLISM AND REQUIREMENTS IN PREGNANCY AND LACTATION; 40: INFANT NUTRITION; 41: ADOLESCENCE; 42: NUTRITION AND AGING; 43: SPORTS NUTRITION; 44: NUTRIENT REGULATION OF THE IMMUNE RESPONSE

45: OBESITY AS A HEALTH RISK46: HYPERTENSION; 47: INSULIN RESISTANCE AND THE METABOLIC SYNDROME; 48: ATHEROSCLEROTIC CARDIOVASCULAR DISEASE; 49: DIABETES; 50: OSTEOPOROSIS; 51: CANCER; 52: NUTRITION AND GASTROINTESTINAL ILLNESS; 53: KIDNEY DISEASE; 54: LIVER DISEASE; 55: ALCOHOL: ITS ROLE IN NUTRITION AND HEALTH; 56: EYE DISEASE; 57: SPECIALIZED NUTRITION SUPPORT; 58: BODY COMPOSITION EVALUATION; 59: ESTIMATION OF DIETARY INTAKE; 60: TASTE AND FOOD CHOICES; 61: ENERGY INTAKE, OBESITY, AND EATING BEHAVIOR

62: STRATEGIES FOR CHANGING EATING AND EXERCISE BEHAVIOR TO PROMOTE WEIGHT LOSS AND MAINTENANCE63: EPIDEMIOLOGIC APPROACHES TO EVALUATION OF NUTRITION AND HEALTH; 64: NUTRITION MONITORING IN THE UNITED STATES; 65: DIETARY STANDARDS AND GUIDELINES: SIMILARITIES AND DIFFERENCES AMONG COUNTRIES; 66: THE ROLE OF UNITED NATIONS AGENCIES IN ESTABLISHING INTERNATIONAL DIETARY STANDARDS\*; 67: EMERGENCE OF DIET-RELATED CHRONIC DISEASES IN DEVELOPING COUNTRIES; 68: FOOD INSECURITY, HUNGER, AND UNDERNUTRITION; 69: PUBLIC NUTRITION IN HUMANITARIAN CRISES; 70: FOODBORNE INFECTIONS AND FOOD SAFETY

71: FOOD ALLERGIES AND INTOLERANCES72: FOOD BIOFORTIFICATION: BREEDING AND BIOTECHNOLOGY APPROACHES TO IMPROVE NUTRIENTS IN VEGETABLES AND OIL QUALITY IN SOYBEAN; 73: BIOACTIVE COMPONENTS IN FOODS AND SUPPLEMENTS FOR HEALTH PROMOTION; Index

## Sommario/riassunto

Present Knowledge in Nutrition, 10th Edition provides comprehensive coverage of all aspects of human nutrition, including micronutrients, systems biology, immunity, public health, international nutrition, and diet and disease prevention. This definitive reference captures the current state of this vital and dynamic science from an international perspective, featuring nearly 140 expert authors from 14 countries around the world. Now condensed to a single volume, this 10th edition contains new chapters on topics such as epigenetics, metabolomics, and sp