1. Record Nr. UNINA9910819578803321

Titolo	Hormones and transport systems / / edited by Gerald Litwack ; contributors, Yasaman Aghazadeh [and thirty-eight others]
Pubbl/distr/stampa	Amsterdam, [Netherlands] : , : Academic Press, , 2015 ©2015
ISBN	0-12-803008-9 0-12-803028-3
Edizione	[First edition.]
Descrizione fisica	1 online resource (584 p.)
Collana	Vitamins and Hormones, , 0083-6729 ; ; Volume ninety eight
Disciplina	612.4
Soggetti	Hormones
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 at the end of each chapters and index.
Nota di contenuto	Front Cover; Hormones and Transport Systems; Copyright; Former Editors; Contents; Contributors; Preface; Chapter One: Dietary I- Absorption: Expression and Regulation of the Na+/I- Symporter in the Intestine; 1. The Importance of Iodide in Human Health; 2. The Na+/I- Symporter; 2.1. Molecular identification of NIS; 2.2. NIS-mediated transport: Substrates and stoichiometry; 2.3. The role of physiological Na+ concentrations in NIS affinity for I-; 3. NIS Expression Beyond the Thyroid; 4. Targeting of NIS to the Plasma Membrane; 5. Hormonal Regulation of NIS Expression; 6. Dietary I- Absorption 7. Regulation of Intestinal NIS Expression8. Conclusions and Future Directions; Acknowledgments; References; Chapter Two: Apical Iodide Efflux in Thyroid; 1. Introduction; 2. Iodide and Thyroid Hormone Synthesis; 2.1. Thyroid organization; 2.2. Thyroid hormone synthesis; 3. Vectorial Transport Processes in Epithelia and Thyroid I- Accumulation; 3.1. Brief overview of basic epithelial transport processes; 3.2. Basolateral iodide uptake; 3.3. Apical iodide release; 4. Chloride Transport Proteins and Luminal I- Translocation; 4.1. SLC26A4 (Pendrin); 4.1.1. SLC26A4, HCO3-, luminal pH 4.2. Cystic fibrosis transmembrane conductance regulator4.2.1. CFTR and SLC26A4 interplay; 4.3. SLC5A8, a sodium-monocarboxylate transporter (hAIT; SLC5A8; SMCT1); 4.4. TMEM16A (anoctamin 1); 5.