

Receptor Purification. Volume 1: Receptors for CNS Agents, Growth Factors, Hormones and Related Substances. Edited by G. LITWACK. Published 1990 by The Humana Press Inc., Clifton (U.S.A.). No. of pages: 514. ISBN: 0-89603-167-5. Price at Feb. 1991: US\$ 99.50.

This book contains very interesting and new information concerning all the processes of receptor purification, which is one of the most important subjects in biology at present. It provides protocols for the purification of a wide variety of receptor types, including those that bind: neurotransmitters, polypeptide hormones, steroid hormones, and ligands for related members of the steroid supergene family, as well as others involved in many biological processes, such as bacterial motion. Today's methods of receptor purification have evolved from years of research on the mechanisms of receptor actions, where they were needed in the determination of receptor properties and ultimately for use in receptor cloning.

'Receptor Purification' provides a comprehensive source of techniques to enable the purification of both cloned receptors and receptors from cells and tissues in a physiological context, and is designed to give the best selection of approaches to a purification problem, providing alternative methods wherever possible.

Volume 1 contains chapters covering the following topics: Serotonin receptors; Purification and cloning of central serotonin receptors; Purification of β -adrenergic receptors; Purification of β , γ subunits of guanine nucleotide binding proteins; Purification of opioid binding proteins; μ -opioid receptor; The neurotensin receptor from mammalian brain; The luteinizing hormone/human chorionic gonadotropin receptor of testis and ovary; Purification of LH/hCG receptor; The follicle stimulating hormone receptor; Thyrotropin receptor; Prolactin receptors; Ligand- and antibody-affinity purification of the epidermal growth factor receptor; Platelet-derived growth factor B type receptor; Colony-stimulating factor 1 receptor; Insulin-like growth factor-II receptors; Purification of insulin and insulin-like growth factor-I receptor; Insulin receptor isolation through avidin-biotin technology; Insulin receptor purification; Isolation of fibronectin receptors; Fibronectin receptor purification using the complementary hydropathy approach; Purification of the human interferon- γ receptor by ligand affinity; Purification of the cholecystokinin receptor.

This volume would be very useful for biologists, molecular biologists, biochemists, pharmacologists, endocrinologists, biophysicists, as well as advanced students and researchers working in this field.