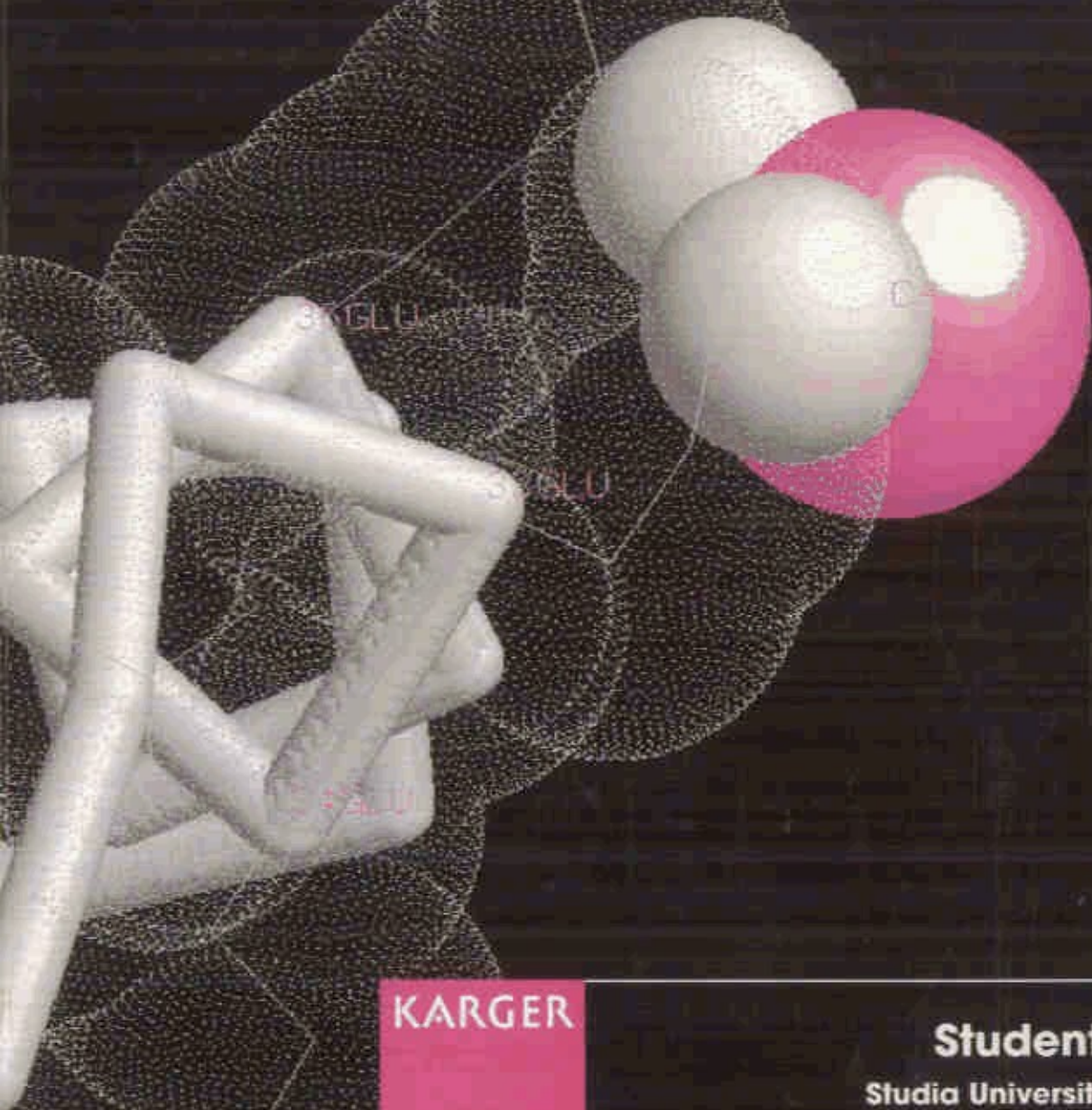


Siegfried Schwarz

Molecules of Life & Mutations

**Understanding Diseases
by Understanding Proteins**

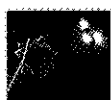


KARGER

Studentenausgabe

**Studia Universitätsbuchhandlung
Innsbruck**

Contents



	Ligands – Small Molecules	1
	Nonpeptidic 'Small Molecules'	1
	Calcium	1
	Catecholamines	5
	Morphine	6
	Adenosine Phosphates	7
	Steroids	8
	Estrogens	8
	Progesterone	9
	Thyroid Hormones	10
	Enzyme Inhibitors	12
	DNA-Binding Substances	13
	Carcinogens	13
	Cytostatic Agents	14
	Ionophores	15
	Peptidic and Proteohormones	17
	Peptidic Toxins	27
	Pictorial Representations of Proteins	i
	Ligand	ii
	Transforming Growth Factor- β	ii
	Ligand-Binding Protein	xvii
	Human Chorionic Gonadotropin Receptor	xvii
	Ligand-Binding Proteins – Large Molecules	31
	Enzymes	31
	Membrane Receptors	43
	Signal Transduction Proteins	53
	Multimodular Adhesion Proteins	61
	DNA-Binding Proteins	65
	DNA/RNA-Processing Enzymes	68
	Antibodies against DNA	70
	DNA-Bending Proteins (HMG-Box Proteins)	70
	Transcription Factors	71
	Tumor Suppressor Proteins	80
	Telomere-Binding Proteins	82
	Homeobox Proteins	83
	Immunological Proteins	87
	Antibodies and B-Cell Receptors	88
	MHC Proteins	92
	T-Cell Receptor	94
	Immunophilins	96
	Miscellaneous Macromolecules	97
	Apolipoproteins	97
	Crystallins	98
	Collagens	99
	Hemoglobin, Spectrin	100
	Stress Proteins, Chaperones and Heat Shock Proteins	101
	Proteasomal Proteins	102
	Viral Coat Proteins	103
	Epilogue	105
	Index	107
	Internet Resources	111