Original Communications and Notes

Abscisic Acid		Affinity Resins	
Abscisic Acid in Phytopathogenic Fungi of the		A Simple Method to Prepare Affinity Resins on	
Genera Botrytis, Ceratocystis, Fusarium, and	600	Cellulose Basis	1048
Rhizoctonia (N)	683	Agaricaceae	
Acetyl-CoA Carboxylase		Constituents of Agaricus xanthodermus Gene-	
Regulation of Acetyl-Coenzyme A Carboxylase		vier: The First Naturally Endogenous Azo Com-	1027
and Acetyl-Coenzyme A Synthetase in Spinach	260	pound and Toxic Phenolic Metabolites	1027
Chloroplasts	268	Agaricus xanthodermus	
Acetyl-CoA Synthetase Regulation of Acetyl Coanzume A Carboxylase		Constituents of Agaricus xanthodermus Gene-	
Regulation of Acetyl-Coenzyme A Carboxylase		vier: The First Naturally Endogenous Azo Com-	1027
and Acetyl-Coenzyme A Synthetase in Spinach Chloroplasts	268	pound and Toxic Phenolic Metabolites	1027
Chloroplasts	200	Agathosma puberula Elaboration of the 6,7,8 Oxygenation Pattern in	
Structural Studies on the Galactan from the Al-		Simple Coumarins: Biosynthesis of Puberulin in	
bumin Gland of Achatina fulica	1063	Agathosma puberula Fourc	31
Activated Charcoal		Aglycones	
An Adsorbent as Phytohormone Reservoir in a		Flavonoid Aglycones in the Leaf Resin of Some	
Plant Cell Suspension Culture	45	Cistus Species (N)	303
Activation Volume		AKR-Leukemia	
Activation Volumes of the Calcium Dependent		Stimulation of Immunoreactivity against Endo-	
para-Nitrophenyl Phosphate Hydrolysis of the		genous Retroviruses and Protection against Leu-	
Sarcoplasmic Reticulum Calcium Transport En-		kemia of Older AKR Mice by Treatment with	
zyme	282	Antibodies against Retroviral Surface Compo-	
Acylamino Acid Amidohydrolase		nents. Role of p 15 (E) Antibody (N)	1199
A New Isolation Procedure for Acylamino Acid		Aliphatic l-Amino Acid Decarboxylase	
Amidohydrolase. Kinetics of the Co ²⁺ , Mn ²⁺ ,		Aliphatic l-Amino Acid Decarboxylase from	
Ni^{2+} and Cd^{2+} Enzyme (N)	1017	Ferns (Filicopsida)	24
Adenosinetriphosphate		Aliphatic Esters	
Dependence on Membrane Lipids of the Effect		Characterization of Volatile Constituents from	
of Vanadate on Calcium and ATP Binding to	1127	Photomixotrophic Cell Suspension Cultures of	525
Sarcoplasmic Reticulum ATPase	1137	Ruta graveolens	525
Adenylate Cyclase		Alkaline Phosphatase	
Stimulation of Brain Synaptosome – Associated Adenylate Cyclase by Acidic Phospholipids (N)	1196	Differential Synthesis of Alkaline Phosphatase in <i>Rhizobium</i> Species Isolated from the Tropics .	1038
Adenylate Cyclase by Acidic I hospitolipids (14) Adenylate Kinase	1170		1036
Two Dimensional Double-Quantum and COSY		Alkaloid Uptake Alkaloid Sequestration by Papaver somniferum	
Spectra of Porcine Adenylate Kinase	738	Latex	876
Adriamycin	750	Alkaloids	070
Mechanisms of Adriamycin-Dependent Oxygen		HPLC Analysis of Alkaloids in Extracts of Callus	
Activation Catalyzed by NADPH-Cytochrome c-		Cultures of Cinchona Species (N)	680
(Ferredoxin)-Oxidoreductase	261	Alkaloid Sequestration by Papaver somniferum	
Adsorbent Culture		Latex	876
An Adsorbent as Phytohormone Reservoir in a		Alkenyl Acetates	
Plant Cell Suspension Culture	45	Specificity of Synthetic Sex-Attractants in Zy-	
Aerobiosis		gaena Moths (N)	841
Effects of Membrane-Acting Drugs and Aerobio-		The Pheromone Receptor System of Male Eulia	
sis on Production of Streptolysin S and Nuclease		ministrana L., with Notes on other Cnephasiini	
in Hemolytic Streptococci	1128	Moths (N)	849
Affinity Chromatography		5-n-Alk(en)ylresorcinols	
Purification and Partial Characterization of the		Haemolytic Properties of Cereal 5-n-Alk(en)ylre-	1122
Soluble NADH Dehydrogenase from the Photo-	(0	sorcinols.	1132
trophic Bacterium Rhodopseudomonas capsulata	68	Allosteric interaction	
Purification of Soybean DNA-Dependent RNA		Herbicide/Quinone Binding Interactions in Photogram II	368
Polymerase I on a Column of Plasmid pHFK 206 Covalently Attached to Agarose	652	tosystem II	308
Preparation of an Affinity Chromatographic Sys-	052	Alnus glutinosa Oxygen Supply of Roots by Gas Transport in Al-	
tem for the Separation of ADP Binding Proteins.	1042	der-Trees (N)	1186

Alveolar Surfactant		Antimicrobial Defense	
Surface Pressure Hysteresis of Mixed Lipid/Pro-		Chemical Defense of Leguminosae. Are Quinoli-	
tein Monolayers: Applications to the Alveolar Dynamics	965	zidine Alkaloids Part of the Antimicrobial De-	548
Amanitaceae	703	fense System of Lupins?	340
Inorganic Bromide in Higher Fungi	863	The Diphenyl-Ether Herbicide Oxyfluorfen: A	
Amaranthus Comparison of the Photosynthetic Capacity ha		Potent Inducer of Lipid Peroxidation in Higher	176
Comparison of the Photosynthetic Capacity be- tween Intact Leaves of Triazine-Resistant and		Plants	476
-Susceptible Biotypes of Six Weed Species	440	Rabbit Antipeptide Antibodies against Restrict-	
Amino Alkyl Phosphonic Acids		ed Domains of the Histocompatibility Complex	646
A Micromethod for Rapid Quantitative Determination of Phosphonate Phosphorus	249	Antiphytoviral Activity Structure-Dependent Biological Activity of Ra-	
Ammonia Accumulation	247	cemic 1-Substituted 2-O-Hexadecylglycero-3-	
The Effect of Phosphinothricin on the Assimila-		phosphocholines and Analogues	252
tion of Ammonia in Plants	500	Area Growth	
Catabolism of (R) -Amygdalin and (R) -Vicianin		Photosynthetic Electron Transport Inhibitors: Some Problems Related to an Accurate Determi-	
by Partially Purified β -Glycosidases from <i>Prunus</i>		nation of the Molecular Site of Action	338
serotina Ehrh. and Davallia trichomanoides	232	Aristolochiaceae	
Anacystis nidulans Studies on the O_2 Evolution under Flash Light		Chemosystematics of Japanese Heterotropa (Ari-	705
Illumination in Preparations of Anacystis nidu-		stolochiaceae)	703
lans	1097	Impaired Diffusion Coupling-Source of Arrhyth-	
Anaerobiosis		mia in Cell Systems	1170
Increased Binding of [14C]Ioxynil in Unicellular Green Algae under Anaerobiosis and by Addi-		Arylethanediamines	
tion of Other Phenolic Herbicides or Uncouplers	402	Effects of N-Aryl-N',N'-Dialkyl-1,2-Ethanediamines on ATP Formation in Chloroplasts. QSAR	
Androgen Receptor		of Amine Uncouplers	107
A Simple Method to Prepare Affinity Resins on Cellulose Basis	1048	Arylphorins	
Anilinonaphthalenesulfonate	1040	Incorporation of Radiolabeled Tyrosine, N-Ace-	
On the Reactivity of Native Phytochrome	742	tyldopamine, N-β-Alanyldopamine, and the	
Antamanide		Arylphorin Manducin into the Sclerotized Cuticle of Tobacco Hornworm (Manduca sexta)	
Examination of the Structure Activity Relation- ship of Antihepatotoxic Natural Products (Silybin-		Pupae	1066
Antamanide) by X-Ray Analysis	535	Ascorbic Acid	
Anthocyanins		The Influence of Amino Acid Ligands and Vi-	
Common Identity of UDP-Glucose: Anthocyanidin 3-O-Glucosyltransferase and UDP-Glucose:		tamin C on the Reduction Potential of Fe(III): Polarographic and Electron Spin Resonance In-	
Flavonol 3-O-Glucosyltransferase in Flowers of		vestigations	102
Petunia hybrida	559	ESR Investigations on Lyophilized Blood: Mix-	
Anthozoa		tures with Ascorbic Acid (N)	174
Arboxeniolide-I, a New, Naturally Occurring Xeniolide Diterpenoid from the Gorgonian Pa-		Aspartokinase Lysine-Enhanced Threonine-Inhibition of Bacte-	
ragorgia arborea of the Crozet Is. (S. Indian		rial Aspartokinase: Concerted or Synergistic	
Ocean) (N)	1180	Feedback Inhibition? (N)	687
Anti-DNA-8-Methoxypsoralen		Asteraceae	
Immune Serum against Anti-DNA-8-Methoxy- psoralen Photoadduct	136	Exudate Flavanoids in <i>Hieraceum intybaceum</i> ,	022
Anti-Lamine Antibodies		an Alpine Hawkweed (N) Flavonoids of <i>Ericameria laricifolia</i> (Asteraceae)	833
The Triton X-100 and High Salt Resistant Resi-		(N)	1184
due of Saccharomyces cerevisiae Nuclear Membranes, II	156	Asymmetrical Insertion	
Antibody	150	Fusion of Large Unilamellar Liposomes Con-	
Interaction of Photosynthetic and Respiratory		taining Hemocyanin with Planar Bilayer Membranes	147
Electron Transport in Blue-Green Algae: Effect	623	Atmospheric Discharge	117
of a Cytochrome <i>c</i> -553 Specific Antibody Antifeedant	023	Cell Fusion by Simulated Atmospheric Dischar-	
Feeding and Molt Inhibition by Azadirachtins A,		ges: Further Support for the Hypothesis of Invol-	0.50
B, and 7-Acetyl-azadirachtin A in <i>Rhodnius pro-</i>	1166	vement of Electrofusion in Evolution	973
lixus Nymphs	1155	ATPase Electron Microscopic Evidence for the Trans-	
Production of C ₆ -Wound Gases by Plants and		membrane Displacement of Calcium ATPase (N)	177
the Effect on Some Phytopathogenic Fungi (N)	1003	Alteration of Acylphosphate Formation of Car-	
Antihepatotoxic Principle Evamination of the Structure Activity Pelation		diac Sarcoplasmic Reticulum ATPase by Calmo-	200
Examination of the Structure Activity Relation- ship of Antihepatotoxic Natural Products (Silybin-		dulin-Dependent Phosphorylation	289
Antamanide) by X-Ray Analysis	535	sistant Mutants of Escherichia coli	293

Functional and Regulatory Properties of H ⁺ Pumps at the Tonoplast and Plasma Membranes	027	Bathocuproine Comparison of Bicarbonate Effects on the Variable Chlorophyll of Fluorescence of CO. Do	
of Zea mays Coleoptiles	927	able Chlorophyll <i>a</i> Fluorescence of CO ₂ -Depleted and Non-CO ₂ -Depleted Thylakoids in the Presence of Diuron	378
duced K ⁺ Diffusion Potential in Liposomes Bearing Chloroplast ATP Synthase (N)	320	Bean Leaves Effect of Electron Transfer Inhibitors and Un-	
Attraction-Inhibitor Analysis of a Sex-Attractant System in the Noc-	0.45	coupling Agents on the Chlorophyll Fluores- cence Lifetime during Slow Fluorescence Decline	
tuid Moth Rhyacia baja Schiff (N) The Pheromone Receptor System of Male Eulia ministrana L., with Notes on other Cnephasiini	845	in Bean Leaves and Intact Chloroplasts Betalain Metabolic Activity of Hydroxycinnamic Acid	93
Moths (N)	849	Glucose Esters in Cell Suspension Cultures of Chenopodium rubrum	902
Inhibition of Photosynthetic Reactions by Aureomycin	627	Bibenzyl Synthase Two Different Pathways Leading to Phenan- threnes and 9,10-Dihydrophenanthrenes of the	
Hormone Induced Changes in Carotenoid Composition in <i>Ricinus</i> Cell Cultures. II. Accumula-		Genus <i>Dioscorea</i>	217
tion of Rhodoxanthin during Auxin-Controlled Chromoplast Differentiation	753	Interaction of Photosystem II Herbicides with Bi- carbonate and Formate in Their Effects on Pho-	274
Avena sativa L. On the Reactivity of Native Phytochrome Azadirachta indica	742	tosynthetic Electron Flow	374
Feeding and Molt Inhibition by Azadirachtins A, B, and 7-Acetyl-azadirachtin A in <i>Rhodnius pro-</i>		tion-Reduction Reactions of the Photosystem II Quinone Acceptor Complex	382
lixus Nymphs	1155	Formate as an Inhibitor of Photosynthetic Electron Flow	386
Feeding and Molt Inhibition by Azadirachtins A, B, and 7-Acetyl-azadirachtin A in <i>Rhodnius prolixus</i> Nymphs	1155	Bicarbonate Effect Comparison of Bicarbonate Effects on the Variable Chlorophyll <i>a</i> Fluorescence of CO ₂ -Deple-	
Azo Compound Constituents of <i>Agaricus xanthodermus</i> Genevier: The First Naturally Endogenous Azo Com-		ted and Non-CO ₂ -Depleted Thylakoids in the Presence of Diuron	378
pound and Toxic Phenolic Metabolites	1027	Bilayer X-Ray Studies on Phospholipid Bilayers. III. Structure and Morphology of L-α-Dilaurylphosphatidylethanolamine (DLPE)	141
Bacteria Chemical Defense of Leguminosae. Are Quinolizidine Alkaloids Part of the Antimicrobial De-		Biliproteins Time-Resolved Polarized Fluorescence of C-Phy-	
fense System of Lupins?	548	cocyanin and Its Subunits from Mastigocladus laminosus	606
Fluorescence-ODMR of Reaction Centers of Rhodopseudomonas viridis	1085	De novo Synthesis and Levels of Cytochrome c and a Biliprotein during Pupal-Adult Development of a Butterfly, Pieris brassicae	938
Occurrence of the Bacteriochlorophyll-Binding Polypeptides B870a and B800–B850a in the Mutant Strains Y5 and Ala ⁺ of Rhodopseudomo-		Development-Specific Incorporation of [14 C]5-Aminolevulinate and [3 H]Leucine into Cytochrome c and Biliprotein in the Butterfly, <i>Pieris bras-</i>	
nas capsulata, which are Defective in Formation of the Light-Harvesting Complexes B870 and	022	sicae. Correlation with the Ecdysteroid Titer in the Pupa	948
B800-850, Respectively	922	Binary Oscillation Redox-State Dependent Changes of Inhibitor- Binding to the Photosystem II Acceptor Com-	
(N)	692	plex	397
Increased Synthesis of Photosystem II in <i>Triticum vulgare</i> when Grown in the Presence of BAS 13-338	510	Insulin Binding Sites Induced in the <i>Tetrahymena</i> by Rat Liver Receptor Antibody (N)	183
Basidiomycetes Pistillarin, a Characteristic Metabolite of <i>Clava-riadelphus pistillaris</i> and Several <i>Ramaria</i> Spe-		Biochanin A-7-O-glucoside-6"-O-malonate Degradation of the Isoflavone Biochanin A-7-O- glucoside-6"-O-malonate and Phenylacetic Acids	002
cies (Basidiomycetes)	10	by Fusarium javanicum Biocides Isolation and Characterization of Tributyltin	882
[1]	695	Resistant Mutants of Escherichia coli Biogenic Sulfur Compounds	293
Two Different Pathways Leading to Phenan- threnes and 9,10-Dihydrophenanthrenes of the Genus <i>Dioscorea</i>	217	Volatile Sulfur Compounds Produced by Methionine Degrading Bacteria and the Relationship to Concrete Corrosion	240

Biological Transport Thermal Diffusion as a Mechanism for Biological Transport	656	tracellular Light Induced CA ²⁺ -Concentration Change of the <i>Limulus</i> Ventral Photoreceptor Monitored by Arsenazo III under Voltage Clamp	
Biosynthèsis Elaboration of the 6,7,8 Oxygenation Pattern in		Conditions	986
Simple Coumarins: Biosynthesis of Puberulin in <i>Agathosma puberula</i> Fourc	31	Metabolic Effects of Direct Current Stimulation on Cultured Vascular Smooth Muscle Cells Calcium Dependence of Light Adaptation	1141
lirosid in Scilla maritima De novo Synthesis and Levels of Cytochrome c	38	The Sensitivity Shift Due to Light Adaptation Depending on the Extracellular Calcium Ion	
and a Biliprotein during Pupal-Adult Develop-	938	Concentration in Limulus Ventral Nerve Photo-	662
Development-Specific Incorporation of [14C]5-	930	receptor Calcium Dependent ATPase Libiting of Calmodylin Dependent Phaenho	002
Aminofevulinate and [3H]Leucine into Cyto- chrome c and Biliprotein in the Butterfly, <i>Pieris</i>		Inhibitors of Calmodulin-Dependent Phosphorylation Simultaneously Inhibit Calcium Uptake	
brasicae. Correlation with the Ecdysteroid Titer in the Pupa	948	and Calcium-Dependent ATPase Activity in Skeletal Muscle Sarcoplasmic Reticulum and	1189
2,2'-Biphenol Tyrosine Oxidation by NO ₂ in Aqueous Solution Bleached Phytochrome	725	Transiently Induce Calcium Release (N) Calcium Dependent para-Nitrophenyl Phosphate Activation Volumes of the Calcium Dependent	1105
On the Reactivity of Native Phytochrome	742	para-Nitrophenyl Phosphate Hydrolysis of the	
Bleaching Herbicides Inhibition of Phytoene Desaturase – the Mode of	112	Sarcoplasmic Reticulum Calcium Transport Enzyme	282
Action of Certain Bleaching Herbicides Comparison of the Action of Bleaching Herbi-	443	Inhibitors of Calmodulin-Dependent Phospho-	
Herbicides which Interfere with the Biosynthesis	450	rylation Simultaneously Inhibit Calcium Uptake and Calcium-Dependent ATPase Activity in	
of Carotenoids and Their Effect on Pigment Excitation, Chlrophyll Fluorescence and Pigment	155	Skeletal Muscle Sarcoplasmic Reticulum and Transiently Induce Calcium Release (N)	1189
Composition of the Thylakoid Membrane Inhibition of Carotene Biosynthesis in Cell Ex-	455 460	Ca ²⁺ -Calmodulin Causal Relationships among Metabolic Circa-	_
tracts of Phycomyces blakesleeanus Blue-Green Algae Nickel December Untake Hydrogenese Activity	400	dian Rhythms in <i>Lemna</i>	73
Nickel-Dependent Uptake-Hydrogenase Activity in the Blue-Green Alga <i>Anabaena variabilis</i> . Interaction of Photosynthetic and Respiratory	90	Alteration of Acylphosphate Formation of Car- diac Sarcoplasmic Reticulum ATPase by Calmo-	200
Electron Transport in Blue-Green Algae: Effect of a Cytochrome c-533 Specific Antibody	623	dulin-Dependent Phosphorylation	289
Branched Polymer Structural Studies on the Galactan from the Al-	023	Inhibitors of Calmodulin-Dependent Phosphorylation Simultaneously Inhibit Calcium Uptake	
bumin Gland of <i>Achatina fulica</i>	1063	and Calcium-Dependent ATPase Activity in Skeletal Muscle Sarcoplasmic Reticulum and	1189
Physiological Changes in <i>Matricaria inodora</i> Following Ioxynil and Bromoxynil Treatment	505	Transiently Induce Calcium Release (N) Carotene Biosynthesis	1103
Bufadienolide Biosynthesis of the Bufadienolide Ring of Scil-		Inhibition of Phytoene Desaturase – the Mode of Action of Certain Bleaching Herbicides	443
lirosid in Scilla maritima	38	Carotenogenesis Multiple Modes of Action of Diphenyl Ethers	468
Herbicide-Binding Protein, Binding Sites and Electron-Transport Activity: Quantitative Rela-		Carotenoid Biosynthesis Inhibition of Carotene Biosynthesis in Cell Ex-	
tions	430	tracts of <i>Phycomyces blakesleeanus</i>	460
Statistical Analysis of Quantum Bump Parameters in <i>Limulus</i> Ventral Photoreceptors	781	Novel Ceramides from <i>Cystobacter fuscus</i> Hormone Induced Changes in Carotenoid Com-	1
Bump Statistics Statistical Analysis of Quantum Bump Parame-		position in Ricinus Cell Cultures. I. Identifica-	50
ters in <i>Limulus</i> Ventral Photoreceptors γ γ -Butyrolactone	781	tion of Rhodoxanthin	450
γ-Butyrolactone from the Black Stink Bug: Aethus indicus Westwood (Hemiptera: Pentatomi-		Herbicides which Interfere with the Biosynthesis of Carotenoids and Their Effect on Pigment Ex-	
dae) (N)	313	citation, Chlorophyll Fluorescence and Pigment Composition of the Thylakoid Membrane	455
Calcium		Hormone Induced Changes in Carotenoid Composition in <i>Ricinus</i> Cell Cultures. II. Accumula-	
Dependence on Membrane Lipids of the Effect of Vanadate on Calcium and ATP Binding to		tion of Rhodoxanthin during Auxin-Controlled Chromoplast Differentiation	753
Sarcoplasmic Reticulum ATPase	1137	Flash Photolysis of Liposomes Containing Chlorophyll and Zeaxanthin, as a Function of Tem-	
Influence of the Membrane Potential on the In-		perature (2 ° – 34 °C)	1108

Catalase		Metribuzin-Resistant Mutants of Chlamydomo-	
Comparison of the Action of Bleaching Herbi-		nas reinhardii	437
cides	450	Chloramphenicol	
Cell Cycle Progression		Cell Cycle Kinetics and Metabolism of Ehrlich	
Cell Cycle Kinetics and Metabolism of Ehrlich		Ascites Tumor Cells in the Presence of Chloram-	
Ascites Tumor Cells in the Presence of Chloram- phenical as Inhibitor of Mitochondrial Protein		phenicol as Inhibitor of Mitochondrial Protein	126
1	126	Synthesis	120
Synthesis	120	Multiple Periodicities in the Circadian System of	
Metabolic Activity of Hydroxycinnamic Acid		Unicellular Algae	791
Glucose Esters in Cell Suspension Cultures of		Chlorophylls	,,,
Chenopodium rubrum	902	Herbicides which Interfere with the Biosynthesis	
Metabolic Effects of Direct Current Stimulation		of Carotenoids and Their Effect on Pigment Ex-	
on Cultured Vascular Smooth Muscle Cells	1141	citation, Chlorophyll Fluorescence and Pigment	
Cell Extracts		Composition of the Thylakoid Membrane	455
Inhibition of Carotene Biosynthesis in Cell Ex-		Temperature Induced Spectral Changes of Chlo-	
tracts of Phycomyces blakesleeanus	460	rophyll in Micelles and Solution (N)	685
Cell-Free System		Pressure Induced Shifts in Spectral Properties of	
Inhibition of Phytoene Desaturase – the Mode of	442	Pigment-Protein Complexes and Photosynthetic	1104
Action of Certain Bleaching Herbicides	443	Organisms	1104
Cell Fusion		Flash Photolysis of Liposomes Containing Chlo-	
Effects of Vitamin A in the Presence of Vitamins	749	rophyll and Zeaxanthin, as a Function of Tem-	1108
D_3 , E, K_1 on Red Cell Membrane Structure Cell Lineages	143	perature (2°-34°C)	1100
A High Frequency Mutation Starts Sexual Re-		Use of Chlorophyll Fluorescence Induction Ki-	
production in Volvax carteri	1159	netics to Study Translocation and Detoxication	
Cellulose		of DCMU-Type Herbicides in Plant Leaves	354
A Simple Method to Prepare Affinity Resins on		Comparison of Bicarbonate Effects on the Vari-	
Cellulose Basis	1048	able Chlorophyll a Fluorescence of CO ₂ -Dep-	
Cembranoids		leted and Non-CO ₂ -Depleted Thylakoids in the	
A New Cembranoid from Tobacco, IV	1023	Presence of Diuron	378
Ceramides		Redox-State Dependent Changes of Inhibitor-	
Novel Ceramides from <i>Cystobacter fuscus</i>	1	Binding to the Photosystem II Acceptor Com-	•
Ceratocystis fimbriata		plex	397
Abscisic Acid in Phytopathogenic Fungi of the		Increased Synthesis of Photosystem II in Triti-	
Genera Botrytis, Ceratocystis, Fusarium, and	683	cum vulgare when Grown in the Presence of	510
Rhizoctonia (N)	003	BAS 13-338	310
Haemolytic Properties of Cereal 5-n-Alk(en)yl-		Effect of Electron Transfer Inhibitors and Un-	
resorcinols	1132	coupling Agents on the Chlorophyll Fluores-	
Chalone		cence Lifetime during Slow Fluorescence Decline	
A Granulopoiesis Inhibitor Partially Purified		in Bean Leaves and Intact Chloroplasts	93
from Large-Scale Serum-Free Cultures of Por-		Chlorophyll Fluorescence Transient	
cine Leukocytes	639	Photosynthetic Electron Transport Inhibitors:	
Chemotaxonomy		Some Problems Related to an Accurate Deter-	
Pistillarin, a Characteristic Metabolite of Clavari-		mination of the Molecular Site of Action	338
adelphus pistillaris and Several Ramaria Species	10	Chlorophyll-Protein Complexes	
(Basidiomycetes)	10	Pressure Induced Shifts in Spectral Properties of	
Chemotaxonomy (Hydroxyllavanas and Other Flavanaids of		Pigment-Protein Complexes and Photosynthetic	1104
6-Hydroxyflavones and Other Flavonoids of	18	Organisms	1104
Crocus	10	Chloroplast ATP Synthase	
Comparison of the Photosynthetic Capacity be-		ATP Synthesis Driven by a Valinomycine Indu-	
tween Intact Leaves of Triazine-Resistant and		ced K ⁺ Diffusion Potential in Liposomes Bearing	220
-Susceptible Biotypes of Six Weed Species	440	Chloroplast ATP Synthase (N)	320
Chenopodium rubrum		Chloroplast Biogenesis	
Metabolic Activity of Hydroxydinnamic Acid		Inhibition by Sethoxydim of Chloroplast Bioge-	
Glucose Esters in Cell Suspension Cultures of		nesis, Development and Replication in Barley	115
Chenopodium rubrum	902	Seedlings	115
Chlamydomonas		fication by New Herbicide Compounds	492
A Nitroxide Diuron Analog as a Probe for the	242		172
Mode of Action of Herbicides	342	Chloroplast Membranes Photodynamic Damage to Isolated Chloroplasts:	
Herbicide and Plastoquinone Binding to Photo-	202	A Possible Model for <i>in vivo</i> Effects of Photosyn-	
system II	393	thetic Inhibitor Herbicides	482
Unicellular Algae	791	Chloroplast Pigments	102
Chlamydomonas reinhardii	171	Photodynamic Damage to Isolated Chloroplasts:	
Isolation of 32–35 kDa Thylakoid Proteins from		A Possible Model for <i>in vivo</i> Effects of Photosyn-	
Chlamydomonas reinhardii	434	thetic Inhibitor Herbicides	482

Chloroplasts		Cnidaria	
Interference by Herbicidal Inhibitors of Electron		Arboxeniolide-1, a New, Naturally Occurring	
Transport with Phosphorylation and Permeabil-		Xeniolide Diterpenoid from the Gorgonian	
ity Properties of Chloroplast Membranes	329	Paragorgia arborea of the Crozet Is. (S. Indian	
Studies on the Functional Mechanism of Sys-		Ocean) (N)	1180
tem II Herbicides in Isolated Chloroplasts	362	Coleoptile	
The Effects of Bicarbonate Depletion and For-		Functional and Regulatory Properties of H ⁺	
mate Incubation on the Kinetics of Oxida-		Pumps at the Tonoplast and Plasma Membranes	
tion-Reduction Reactions of the Photosystem II		of Zea mays Coleoptiles	927
	382		121
Quinone Acceptor Complex	302	Comparison	
The Molecular Basis of Triazine-Herbicide Re-	412	Light Induced Changes in the Conformation of	
sistance in Higher-Plant Chloroplasts	412	Spinach Thylakoid Membranes as Monitored by	
Interaction of Herbicides with Pea Chloroplasts	464	90° and 180° Scattering Changes: A Compara-	1120
Radical Formation and Peroxidative Activity of	106	tive Investigation	1120
Phytotoxic Diphenyl Ethers	486	Compositae	
Inhibition of Photosynthetic Reactions by Aure-		Miotoxin-A: A Novel Macrocyclic Trichothecene	
omycin	627	from the Brazilian Plant Baccharis coridifolia .	212
Chlorosis		Concerted Feedback	
Comparison of the Action of Belaching Herbici-		Lysine-Enhanced Threonnine-Inhibition of Bac-	
des	450	terial Aspartokinase: Concerted or Synergistic	
Choristoneura murinana Nuclear Polyhedrosis Virus		Feedback Inhibition? (N)	687
The Cellular Substrate: A Very Important Requi-		Concrete Corrosion	
rement for Baculovirus in vitro Replication	993	Volatile Sulfur Compounds Produced by Me-	
Chromatin		thionine Degrading Bacteria and the Relation-	
Distribution of the H1 Histone Subfractions in		ship to Concrete Corrosion	240
Syrian Hamster Chromatin Fractions	958	Conductivity	
Isolation of the Products Resulting from the Re-		Conductivity of Normal and Pathological Hu-	
action of cis and trans Diaminedichloropla-		man Erythrocytes (Homozygous β -Thalassemia)	
tinum [II] with DNA and Chromatin on the		at Radiowave Frequencies	160
Dowex 50 W Column	1057	Effect of Extracellular Alkali Metal Salts on the	100
	1057	Electric Parameters of Human Erythrocytes in	
Chrysanthemum balsamita L.		Normal and Pathological Conditions (Homozy-	
Herbal Insecticides II [1]. The Essential Oil from			1163
Leaves of Chrysanthemum balsamita L. Insectici-	5.42	gous β -Thalassemia)	1103
dal Activity and Composition	543	Coevolution Chamical Defense of Luning Molluse Repullent	
Cinchona		Chemical Defense of Lupins. Mollusc-Repellent	553
HPLC Analysis of Alkaloids in Extracts of Callus	(00	Properties of Quinolizidine Alkaloids	333
Cultures of Cinchona Species (N)	680	syn Conformation	
Cinnamoyl Quinic Acid Esters		The Crystal Structure of Anhydrous Xanthosine	
New Cinnamoyl Esters of Quinic Acid from	1.67	Displays Intramolecular O(2')H O(3') Hydro-	720
Meum athamanticum (N)	167	gen Bond	720
Circadian Rhythms		Conformational Changes	
Causal Relationships among Metabolic Circa-		Light Induced Changes in the Conformation of	
dian Rhythms in <i>Lemna</i>	73	Spinach Thylakoid Membranes as Monitored by	
Multiple Periodicities in the Circadian System of	=0.	90° and 180° Scattering Changes: A Compara-	1120
Unicellular Algae	791	tive Investigation	1120
System Analysis of the Circadian Rhythm of		Conformational Variants	
Euglena gracilis, II: Masking Effects and Mu-		Glutamate Dehydrogenase of Pisum sativum:	
tual Interactions of Light and Temperature Re-		Heat-Dependent Interconversion of the Multiple	257
sponses	801	Forms	257
Cistaceae		Continuous Flow ¹³ C NMR	
Flavonoid Aglycones in the Leaf Resin of Some		In vivo Metabolism of [4-13C]Phenacetin in an	
Cistus Species (N)	303	Isolated Perfused Rat Liver Measured by Conti-	0.50
The Composition of Terpene Hydrocarbons in		nuous Flow ¹³ C NMR Spectroscopy (N)	859
the Essential Oils from Leaves of Four Cistus		Copolymerization	
Species	699	Incorporation of Radiolabeled Tyrosine, N-	
Cistus		Acetyldopamine, N- β -Alanyldopamine, and the	
Flavonoid Aglycones in the Leaf Resin of Some		Arylphorin Manducin into the Sclerotized Cu-	
	303	ticle of Tobacco Hornworm (Manduca sexta)	
Cistus Species (N)	303	Pupae	1066
Epicuticular Waxes of Seed Coats from Species	521	COSY	
of the Genus Cistus L. (Cistaceae)	321	Two Dimensional Double-Quantum and COSY	
Cistus spp.		Spectra of Porcine Adenylate Kinase	738
The Composition of Terpene Hydrocarbons in		Coumarins	
the Essential Oils from Leaves of Four Cistus		Elaboration of the 6,7,8 Oxygenation Pattern in	
Species	699	Simple Coumarins: Biosynthesis of Puberulin in	
Clavariadelphus pistillaris		Agathosma puberula Fourc	31
Pistillarin, a Characteristic Metabolite of Clavari-		Crocus	
adelphus pistillaris and Several Ramaria Species		6-Hydroxyflavones and Other Flavonoids of	
(Basidiomycetes)	10	Crocus	18

Crosslinking pH-Induced Inactivation of Glycerol Dehydro-		chrome c and Biliprotein in the Butterfly, <i>Pieris brassicae</i> . Correlation with the Ecdysteroid Titer	
genase from Bacillus megaterium	575	in the Pupa	948
Cucurbitaceae		Cytochrome c-553	-
Herpetol, a New Dimeric Lignoid. from Herpeto-		Interaction of Photosynthetic and Respiratory	
spermum caudigerum Wall (N)	307	Electron Transport in Blue-Green Algae: Effect	(22
Culture Conditions Accumulation of Volatila Flavour Compounds in		of a Cytochrome <i>c</i> -533 Specific Antibody	623
Accumulation of Volatile Flavour Compounds in Liquid Cultures of <i>Kluyveromyces lactis</i> Strains	1030	Cytochrome <i>c</i> -553 (549) Cytochromes of the Purple Sulfur Bacterium	
β -Cyano-L-alanine	1030	Ectothiorhodospira shaposhnikovii	894
The Distribution of β -Cyano-L-alanine in Cy-		Cytokinin	071
anogenic Lepidoptera (N)	837	Hormone Induced Changes in Carotenoid Com-	
Cyanoacrylates		position in Ricinus Cell Cultures. II. Accumula-	
Cyanoacrylate Inhibitors of Photosynthetic Elec-		tion of Rhodoxanthin during Auxin-Controlled	
tron Transport. Nature of the Interaction with	225	Chromoplast Differentiation	753
the Receptor Site	335	Cytosine Identification of N¹-Glycolylbiuret in the Gam-	
Cyanoacrylate Inhibitors of the Hill Reaction III. Stereochemical and Electronic Aspects of Inhibi-		ma Radiolysis of Aerated Aqueous Solution of	
tor Binding	617	Cytosine. Influence of the pH	64
Cyanobacterium	017	eyroomor amadaad er and pri	0,
Nickel-Dependent Uptake-Hydrogenase Activity			
in the Blue-Green Alga Anabaena variabilis	90	Davallia trichomanoides	
Interaction of Photosynthetic and Respiratory		Catabolism of (R) -Amygdalin and (R) -Vicianin	
Electron Transport in Blue-Green Algae: Effect	(22	by Partially Purified β -Glycosidases from <i>Prunus</i>	222
of a Cytochrome c-553 Specific Antibody Studies on the O. Evolution under Flesh Light	623	serotina Ehrh. and Davallia trichomanoides	232
Studies on the O ₂ Evolution under Flash Light Illumination in Preparations of <i>Anacystis nidu</i> -		DCMU-Type Herbicides Photosynthetic Electron Transport Inhibitors:	
lans	1097	Some Problems Related to an Accurate Deter-	
Cyanogenesis	10,,	mination of the Molecular Site of Action	338
The Distribution of β -Cyano-L-alanine in Cy-		cis DDP	
anogenic Lepidoptera (N)	837	The Influence of Cysteine on the Reaction of	
Cyanogenic Disaccharides		d-Guanosine with <i>cis</i> -Diaminedichloroplatinum	
Catabolism of (R)-Amygdalin and (R-Vicianin		(II)(N)	180
by Partially Purified β -Glycosidases from <i>Prunus</i>	232	Defense Mechanism	
serotina Ehrh. and Davallia trichomanoides Cyanoglucosides	232	The Distribution of β -Cyano-L-alanine in Cyanogenic Lepidoptera (N)	837
The Distribution of β -Cyano-L-alanine in Cy-		Degradiation	037
anogenic Lepidoptera (N)	837	Degradation of the Isoflavone Biochanin A-7-O-	
Cydia pomonella Cell lines		glucoside-6"O-malonate and Phenylacetic Acids	
The Cellular Substrate: A Very Important Requi-		by Fusarium javanicum	882
rement for Baculovirus in vitro Replication	993	A New Cembranoid from Tobacco, IV	1023
Cydia pomonella Granulosis Virus The Cellular Substrate: A Very Important Pequi		Denaturation	
The Cellular Substrate: A Very Important Requirement for Baculovirus <i>in vitro</i> Replication	993	pH-Induced Inactivation of Glycerol Dehydro- genase from <i>Bacillus megaterium</i>	575
Cyclic Electron Flow	775	Deoxyribonucleotide Synthesis	313
DCMU-Induced Fluorescence Changes and Pho-		Aurintricarboxylic Acid and Polynucleotides as	
todestruction of Pigments Associated with an In-		Novel Inhibitors of Ribonucleotide Reductases	276
hibition of Photosystem I Cyclic Electron Flow .	351	Desmarestene-l'-epoxide	
Cyclic Nucleotides		Lamoxirene. Structural Proof of the Spermato-	
Pheromone-Binding and Matrix-Mediated Events in Sexual Induction of <i>Volvox carteri</i>	584	zoid Releasing and Attracting Pheromone of	600
Cysteine Events in Sexual Induction of Volvox carteri	364	Laminariales (N)	689
The Influence of Cysteine on the Reaction of		The Structure of Desmocarpin, a Pterocarpan	
d-Guanosine with cis-Diaminedichloroplatinum		Phytoalexin from Desmodium gangeticum	531
(II)(N)	180	Destructive Oxygen Species	
Cystobacter		Studies on the Possible Mechanism of Inactiva-	
Novel Ceramides from Cystobacter fuscus	1	tion of Phenylalanine Hydroxylase by Destruc-	
Cytochrome b-558		tive Oxygen Species	734
Cytochromes of the Purple Sulfur Bacterium Ectothiorhodospira shaposhnikovii	894	Immune Serum agianst Anti-DNA-8-Methoxy-	
Cytochrome c'	0,74	psoralen Photoadduct	136
Cytochromes of the Purple Sulfur Bacterium		Detoxication	150
Ectothiorhodospira shaposhnikovii	894	Use of Chlorophyll Fluorescence Induction Ki-	
Cytochrome c		netics to Study Translocation and Detoxication	
De novo Synthesis and Levels of Cytochrome c		of DCMU-Type Herbicides in Plant Leaves	354
and a Biliprotein during Pupal-Adult Devel-	030	Development	
opment of a Butterfly, <i>Pieris brassicae</i> Development-Specific Incorporation of [14C]5-	938	De novo Synthesis and Levels of Cytochrome c	
Aminolevulinate and [3H]Leucine into Cyto-		and a Biliprotein during Pupal-Adult Development of a Butterfly, <i>Pieris brassicae</i>	938
[11]2000			150

Diaminedichloroplatinum		DNA	
Isolation of the Products Resulting from the Re-		Identification of a Major Pathway of Strand	
action of cis and trans Diaminedichloroplati-		Break Formation in Poly U Induced by OH	
num [II] with DNA and Chromatin on the Do-	1055	Radicals in Presence of Oxygen (N)	315
wex 50 W Column	1057	Differences between Rat Splenic and Thymic	
trans Diaminedichloroplatinum [II]		Cells with Respect to the Effects of Ethidium	
Isolation of the Adducts of Platinum Complexes		Bromide on the Unsheduled DNA Synthesis	
and Nucleic Acid Bases on the Dowex 50 W Co-		(DNA Repair Synthesis) and the Nucleoid Sedi-	
lumn	1952	mentation	600
Differentiation		Isolation of the Products Resulting from the Re-	
The Radial Polar Pattern of Differentiation in	0.10	action of cis and trans Diaminedichloroplati-	
Trichoplax adhaerens F. E. Schulze (Placozoa)	818	num [II] with DNA and Chromatin on the Do-	
Distribution of the H1 Histone Subfractions in	0.50	wex 50 W Column	1057
Syrian Hamster Chromatin Fractions	958	DNA-Agarose Purification	
Dihydropyrones		Purification of Soybean DNA-Dependent RNA	
Short Note on Dihydropyrones, a New Herbici-	450	Polymerase I on a Column of Plasmid pHFK 206	
dal Family with Bleaching Properties	459	Covalently Attached to Agarose	652
Diisopropyl Disulfide		Dopamine Accumulation	
Characterization of Microcystis Strains by Alkyl	0.65	Dopamine Accumulation in Papaver somniferum	1004
Sulfides and β -Cyclocitral	867	Latex	1034
Dilaurylphosphatidylethanolamine		Dose-Rate	
X-Ray Studies on Phospholipid Bilayers. III.		Dose Rate Dependence of Radiation Induced	
Structure and Morphology of L-α-Dilaurylphos-		IgG Membrane Receptor Alteration [1] (N)	1021
phatidylethanolamine (DLPE)	141	Double-Quantum	
6.6',7.3'a-Diligustilide		Two Dimensional Double-Quantum and COSY	7.0 0
Phthalide Derivatives from Meum athamanticum	072	Spectra of Porcine Adenylate Kinase	738
Jacq	872	Dowex 50 W×2 Chromatography	
Dioscoreaceae		Isolation of the Adducts of Platinum Complexes	
Two Different Pathways Leading to Phenanthre-		and Nucleic Acid Bases on the Dowex 50 W	1050
nes and 9,10-Dihydrophenanthrenes of the Ge-	217	Column	1052
nus Dioscorea	217	Drosophila hydei	
Dioxygenase		Titer of Juvenile Hormone III in Drosophila	
Conversion of Dihydroflavonols to Flavonols		hydei during Metamorphosis Determined by	1150
with Enzyme Extracts from Flower Buds of	714	GC-MS-MIS	1150
Matthiola incana R. Br	714		
Diphenyl Ether The Diphenyl-Ether Herbicide Oxyfluorfen: A			
Potent Inducer of Lipid Peroxidation in Higher		Earthworm Mitochondria	
Plants	476	Isolation and Respiratory Assay of Earthworm	
Direct Electric Stimulation	470	Body Wall Mitochondria	853
Metabolic Effects of Direct Current Stimulation		Ecdysteroids	000
on Cultured Vascular Smooth Muscle Cells	1141	Development-Specific Incorporation of [14C]5-	
Discharge of Haptocysts		Aminolevulinate and [3H]Leucine into Cyto-	
Mode of Discharge of Haptocysts in Ephelota		chrome c and Biliprotein in the Butterfly, Pieris	
gemmipara (Suctoria, Ciliata)	812	brassicae. Correlation with the Ecdysteroid Titer	
Disposable Extraction Columns		in the Pupa	984
Determination of 4-Pregnene-3-ones in Thymus		Ectothiorhodospira shaposhnikovii	
Tissue Samples by High Performance Liquid		Cytochromes of the Purple Sulfur Bacterium	
Chromatography (N)	1012	Ectothiorhodospira shaposhnikovii	894
Dissipative Structures		Ehrlich Ascites Tumor Cells	
Impaired Diffusion Coupling-Source of Arrhyth-		Cell Cycle Kinetics and Metabolism of Ehrlich	
mia in Cell Systems	1170	Ascites Tumor Cells in the Presence of Chloram-	
Dissociation		phenicol als Inhibitor of Mitochondrial Protein	
pH-Induced Inactivation of Glycerol Dehydro-		Synthesis	126
genase from Bacillus megaterium	575	Electrofusion	
0	575	Cell Fusion by Simulated Atmospheric Dischar-	
New Cembranoid from Tobacco, IV	1023	ges: Further Support for the Hypothesis of Invol-	
	1023	vement of Electrofusion in Evolution	973
Dityrosyl Links		Electrolyte Solutions	
High Energy Radiation-Induced Crosslinking of	1075	Effect of Extracellular Alkali Metal Salts on the	
Histone Octamer Complexes	1075	Electric Parameters of Human Erythrocytes in	
Diuron		Normal and Pathological Conditions (Homozy-	
DCMU-Induced Fluorescence Changes and Pho-		gous β -Thalassemia)	1163
todestruction of Pigments Associated with an In-	251	Electron Acceptors	
hibition of Photosystem I Cyclic Electron Flow .	351	The Effects of 3-(3,4-Dichlorophenyl)-1,1-dimethylyras on the Photographetic Ovygan Complex	247
Comparison of Bicarbonate Effects on the Variable Chlorophyll a Flyorescence of CO. Den		thylurea on the Photosynthetic Oxygen Complex.	347
able Chlorophyll a Fluorescence of CO ₂ -Dep-		Electron Donors The Effects of 3 (3.4 Dichlorophenyl) 1 1-dime-	
leted and Non-CO ₂ -Depleted Thylakoids in the Presence of Diuron	378	The Effects of 3-(3,4-Dichlorophenyl)-1,1-dimethylurea on the Photosynthetic Oxygen Complex.	347
TRESCRICE OF DIGION	210	myrarea on the rhotosynthetic Oxygen Colliblex.	J+/

Electron Microscopy		Erythrocyte Membrane	
Packing Pattern of DNA in Bacteriophage T2	692	Effects of Vitamin A in the Presence of Vitamins	740
Electron Microscopic Study of the Polymyxin	776	D ₃ , E, K ₁ on Red Cell Membrane Structure	749
Treated Goat Erythrocytes	776	The Life Span and Cometic Fragility of Frythro	
Pasin Sections (N)	835	The Life Span and Osmotic Fragility of Erythro-	
Resin Sections (N)	033	cytes in Mice Bearing Benzo(a) Pyrene – Induced Fibrosarcoma (N)	198
A Nitroxide Diuron Analog as a Probe for the		Erythrocytes	170
Mode of Action of Herbicides	342	Conductivity of Normal and Pathological Hu-	
Electron Transfer Inhibitors		man Erythrocytes (Homozygous β -Thalassemia)	
Effect of Electron Transfer Inhibitors and Un-		at Radiowave Frequencies	160
coupling Agents on the Chlorophyll Fluores-		Electron Microscopic Study of the Polymyxin	
cence Lifetime during Slow Fluorescence Decline		Treated Goat Erythrocytes	776
in Bean Leaves and Intact Chloroplasts	93	Effect of Extracellular Alkali Metal Salts on the	
Electron Transport		Electric Parameters of Human Erythrocytes in	
Interaction of Photosystem II Herbicides with		Normal and Pathological Conditions (Homozy-	11/0
Bicarbonate and Formate in Their Effects on	274	gous β -Thalassemia)	1163
Photosynthetic Electron Flow	374	Ericameria laricifolia	
Multiple Modes of Action of Diphenyl Ethers	468	Flavonoids of <i>Ericameria laricifolia</i> (Asteraceae) (N)	1184
Radical Formation and Peroxidative Activity of Phytotoxic Diphenyl Ethers	486	(N)	1104
Increased Synthesis of Photosystem II in Triti-	700	Purification by Affinity Chromatography of Glu-	
cum vulgare when Grown in the Presence of BAS		tathione Reductase (EC 1.6.4.2) from Escherichia	
13-338	510	coli and Characterization of such Enzyme	908
Electron Transport Inhibitors		ESR Signals	
Caynoacrylate Inhibitors of Photosynthetic Elec-		Radical Formation and Peroxidative Activity of	
tron Transport. Nature of the Interaction with		Phytotoxic Diphenyl Ethers	486
the Receptor Site	335	ESR-Spectroscopy	
Identification of the Herbicide Binding Region		The Influence of Amino Acid Ligands and Vi-	
of the Q _B -Protein by Photoaffinity Labeling with		tamin C on the Reduction Potential of Fe(III):	
Azidoatrazine	425	Polarographic and Electron Spin Resonance	102
Electroreception		Investigations	102
Neuroanatomical Evidence for Electroreception	056	ESR Investigations on Lyophilized Blood: Mix-	174
in Lampreys (N)	856	tures with Ascorbic Acid (N)	1/4
Yeast-Like Endosymbionts in an Ichneumonid		Herbal Insecticides II [1]. The Essential Oil from	
Wasp (N)	322	Leaves of Chrysanthemum balsamita L. Insectici-	
Energy Metabolism	022	dal Activity and Composition	543
Cell Cycle Kinetics and Metabolism of Ehrlich		The Composition of Terpene Hydrocarbons in	
Ascites Tumor Cells in the Presence of Chloram-		the Essential Oils from Leaves of Four Cistus	
phenicol as Inhibitor of Mitochondrial Protein		Species	699
Synthesis	126	Ethidium Bromide	
Energy Transfer		Differences between Rat Splenic and Thymic	
Time-Resolved Polarized Fluorescence of C-Phy-		Cells with Respect to the Effects of Ethidium	
cocyanin and Its Subunits from Mastigocladus		Bromide on the Unscheduled DNA Synthesis	
laminosus	606	(DNA Repair Synthesis) and the Nucleoid Sedi-	600
Enzyme Biosynthesis		mentation	000
Differential Synthesis of Alkaline Phosphatase in		Flash Pattern of Oxygen Evolution in Greening	
Rhizobium Species Isolated from the Tropics .	1038	Etioplasts of Oat	1091
Enzyme Regulation		Euglena	
Aurintricarboxylic Acid and Polynucleotides as		Multiple Periodicities in the Circadian System of	
Novel Inhibitors of Ribonucleotide Reductases	276	Unicellular Algae	791
Ephelota		Euglena gracilis	
Mode of Discharge of Haptocysts in Ephelota	100 100 100	Comparison of Different Methods for the Deter-	
gemmipara (Suctoria, Ciliata)	812	mination of Phenylalanine Hydroxylase Activity	720
Epicuticular Layer		in Rat Liver and Euglena gracilis	728
Novel Epicuticular Leaf Flavonoids from Kalmia		System Analysis of the Circadian Rhythm of	
and Gaultheria (Ericaceae)	710	Euglena gracilis, II: Masking Effects and Mutual Interactions of Light and Temperature Re-	
Epicuticular Waxes		sponses	801
Epicuticular Waxes of Seed Coats from Species		Evolution	501
of the Genus Cistus L. (Cistaceae)	521	Cell Fusion by Simulated Atmospheric Dischar-	
Epoxy Resin Sections		ges: Further Support for the Hypothesis of Invol-	
Oxidized p-Phenylenediamine Staining of Epoxy	0	vement of Electrofusion in Evolution	973
Resin Sections (N)	835	Excitation Energy Transfer	
Ericaceae		Flash Photolysis of Liposomes Containing Chlo-	
Novel Epicuticular Leaf Flavonoids from Kalmia	710	rophyll and Zeaxanthin, as a Function of Tem-	1100
and Gaultheria (Ericaceae)	710	perature $(2^{\circ}-34^{\circ}C)$	1108

Extracellular Matrix		citation, Chlorophyll Fluorescence and Pigment	455
Pheromone-Binding and Matrix-Mediated	504	Composition of the Thylakoid Membrane	455
Events in Sexual Induction of Volvox carteri.	584	Fluorescence Anisotropy	
		Effects of Vitamin A in the Presence of Vitamins	749
F		D_3 , E, K_1 on Red Cell Membrane Structure	/49
Ferns Alimbetic I Amine Acid Decemberation from		Fluorescence-ODMR of Reaction Centers of	
Aliphatic l-Amino Acid Decarboxylase from	24	Rhodopseudomonas viridis	1085
Ferns (Filicopsida)	24	Fluorescent Dye	1003
Ferredoxin/NAPD Reductase		Binding of the Fluorescent Dye 8-Anilinonaph-	
Inhibition of Photosynthetic Reactions by Au-	627	thalene 1-Sulfonic Acid to the Native and Pres-	
reomycin	627		
Ferrous Ions The Influence of Amine Acid Licends and Vi		sure Dissociated β_2 -Dimer of Trypotophan Synthase from <i>Escherichia coli</i> (N)	1008
The Influence of Amino Acid Ligands and Vi-			1008
tamin C on the Reduction Potential of Fe(III):		Fluorometric Method Measurements of Penetration and Detoxification	
Polarographic and Electron Spin Resonance	102		
Investigations	102	of PS II Herbicides in Whole Leaves by a Fluoro-	359
Fibrosarcoma The Life Span and Comptie Freeility of Frethro		metric Method	339
The Life Span and Osmotic Fragility of Erythro-		Fluid Surface Layer Enjoyticular Wayes of Sand Coats from Species	
cytes in Mice Bearing Benzo(a) Pyrene – Induced	198	Epicuticular Waxes of Seed Coats from Species	521
Fibrosarcoma (N)	190	of the Genus Cistus L. (Cistaceae)	321
Filicopsida		FMN-Sepharose 6B	
Aliphatic l-Amino Acid Decarboxylase from	24	Purification and Partial Characterization of the	
Ferns (Filicopsida)	24	Soluble NADH Dehydrogenase from the Photo-	60
Flash Yield		trophic Bacterium Rhodopseudomonas capsulata	68
Flash Pattern of Oxygen Evolution in Greening	1001	Food Capture	
Etioplasts of Oat	1091	Mode of Discharge of Haptocysts in Ephelota	013
Flavone Glycosylation Genes		gemmipara (Suctoria, Ciliata)	812
07g and D6a: Two Flavone Glycosylating Genes		Formate	
in Silene, which are Only Expressed in Coty-	5.00	Interaction of Photosystem II Herbicides with	
ledons and Rosette Leaves	568	Bicarbonate and Formate in Their Effects on	27.4
Flavonoid Aglycones		Photosynthetic Electron Flow	374
Exudate Flavanoids in Hieraceum intybaceum,		The Effects of Bicarbonate Depletion and For-	
an Alpine Hawkweed (N)	833	mate Incubation on the Kinetics of Oxida-	
19 Flavonoid Aglycones		tion-Reduction Reactions of the Photosystem II	
Flavonoids of Ericameria laricifolia (Asteraceae)		Quinone Acceptor Complex	382
(N)	1184	Formate as an Inhibitor of Photosynthetic Elec-	
Flavonoid Biosynthesis		tron Flow	386
Common Identity of UDP-Glucose: Anthocyani-		Fungi	
din 3-O-Glucosyltransferase and UDP-Glucose:		Chemical Defense of Leguminosae. Are Quinoli-	
Flavonol 3-O-Glucosyltransferase in Flowers of		zidine Alkaloids Part of the Antimicrobial De-	
Petunia hybrida	559	fense System of Lupins?	548
Conversion of Dihydroflavonols to Flavonols		Fusarium javanicum	
with Enzyme Extracts from Flower Buds of		Degradation of the Isoflavone Biochanin A-7-O-	
Matthiola incana R. Br	714	glucoside-6"O-malonate and Phenylacetic Acids	
Flavonoids		by Fusarium javanicum	882
6-Hydroxyflavones and Other Flavonoids of		Fusarium oxysporum	
Crocus	18	Abscisic Acid in Phytopathogenic Fungi of the	
Conversion of Dihydroflavonols to Flavonols		Genera Botrytis, Ceratocystis, Fusarium, and	
with Enzyme Extracts from Flower Buds of		Rhizoctonia (N)	683
Matthiola incana R. Br	714		
Flavonols		G 1 Phase of Cell Cycle	
Common Identity of UDP-Glucose: Anthocyani-		The Triton X-100 and High Salt Resistant Resi-	
din 3-O-Glucosyltransferase and UDP-Glucose:		due of Saccharomyces cerevisiae Nuclear Mem-	
Flavonol 3-O-Glucosyltransferase in Flowers of		branes, II	156
Petunia hybrida	559	Galactan	
Flavour Compounds		Structural Studies on the Galactan from the	
Accumulation of Volatile Flavour Compounds in		Albumin Gland of Achatina fulica	1063
Liquid Cultures of Kluyveromyces lactis Strains	1030	Gamma-Irradiation	
Fluorescence		Identification of N¹-Glycolylbiuret in the Gam-	
DCMU-Induced Fluorescence Changes and Pho-		ma Radiolysis of Aerated Aqueous Solution of	
todestruction of Pigments Associated with an In-		Cytosine. Influence of the pH	64
hibition of Photosystem I Cyclic Electron Flow .	351	Gas Chromatography	
Studies on the Functional Mechanism of System		Volatile Sulfur Compounds Produced by Me-	
II Herbicides in Isolated Chloroplasts	362	thionine Degrading Bacteria and the Relation-	
Comparison of Diuron- and Phenol-Type Inhibi-		ship to Concrete Corrosion	240
tors: Additional Inhibitory Action at the Photo-		Gaschromatography/Mass Spectrometry	
system II Donor Site	389	The Composition of Terpene Hydrocarbons in	
Herbicides which Interfere with the Biosynthesis		the Essential Oils from Leaves of Four Cistus	
of Carotenoids and Their Effect on Pigment Ex-		Species	699

Titer of Juvenile Hormone III in <i>Drosophila hydei</i> during Metamorphosis Determined by GC-MS-MIS	1150	Guanosine-5'-phosphate Conformation about the Glycosidic Bond and Susceptibility to 5'-Nucleotidase of 8-Substituted Analogues of 5'-GMP	55
Oxygen Supply of Roots by Gas Transport in Alder-Trees (N)	1186		
Gaultheria Novel Epicuticular Leaf Flavonoids from Kalmia and Gaultheria (Ericaceae) Glucose Ester	710	Haemolytic Activity Haemolytic Properties of Cereal 5-n-Alk(en)yl-	1132
Metabolic Activity of Hydroxycinnamic Acid Glucose Esters in Cell Suspension Cultures of Chenopodium rubrum	902	resorcinols	958
Glutamate Dehydrogenase Glutamate Dehydrogenase of <i>Pisum sativum:</i> Heat-Dependent Interconversion of the Multiple		Heat-Dependent Interconversion Glutamate Dehydrogenase of <i>Pisum sativum:</i> Heat-Dependent Interconversion of the Multiple	
Forms	257	Forms	257
tion of Ammonia in Plants	500	taining Hemocyanin with Planar Bilayer Membranes	147
tathione Reductase (EC 1.6.4.2) from <i>Escherichia</i> coli and Characterization of such Enzyme	908	Structure Determination of 6-C-β-D-glucopy-ranosyl-8-C-α-L-arabinopyranosyltricetin from <i>Radula complanata</i> (N)	309
Glyceraldehyde 3-Phosphate Dehydrogenases (EC 1.2.1.12 & 13) Causal Relationships among Metabolic Circa-	72	Hepatoma Distribution of the H1 Histone Subfractions in Syrian Hamster Chromatin Fractions	958
dian Rhythms in <i>Lemna</i>	73	Herbal Insecticides Herbal Insecticides II [1]. The Essential Oil from Leaves of <i>Chrysanthemum balsamita</i> L. Insecti-	
ring Spheroplasts Formation of <i>Mycobacterium</i> smegmatis ATCC 14468	962	cidal Activity and Composition	543
pH-Induced Inactivation of Glycerol Dehydrogenase from <i>Bacillus megaterium</i>	575	fication by New Herbicide Compounds Herbicide Binding Studies on the Functional Mechanism of System	492
Glycerolipid Synthesis in Chloroplasts Control of Fatty Acid Incorporation into Chloroplast Lipids in vitro	593	II Herbicides in Isolated Chloroplasts Increased Binding of [14C]Ioxynil in Unicellular Green Algae under Anaerobiosis and by Ad-	362
Glycine max Legume Root Response to Symbiotic Infection. Enzymes of the Peribacteroid Space	123	dition of Other Phenolic Herbicides or Uncouplers	402
N ¹ Glycolylbiuret Identification of N ¹ -Glycolylbiuret in the Gamma Radiolysis of Aerated Aqueous Solution of	(1	Identification of the Herbicide Binding Region of the Q_B -Protein by Photoaffinity Labeling with Azidoatrazine	425
Cytosine. Influence of the pH	64	Herbicide Damage Photodynamic Damage to Isolated Chloroplasts: A Possible Model for <i>in vivo</i> Effects of Photosyn-	
sperma f. sp. glycinea. An in vitro Study β -Glycosidases Catabolism of (R)-Amygdalin and (R)-Vicianin	222	thetic Inhibitor Herbicides	482
by Partially Purified β -Glycosidases from <i>Prunus serotina</i> Ehrh. and <i>Davallia trichomanoides</i> Gramine	232	of PS II Herbicides in Whole Leaves by a Fluoro- metric Method	359
Uncoupling of Spinach Thylakoids by Gramine Granulopoaesis Inhibitor	746	Metribuzin-Resistant Mutants of <i>Chlamydomo-nas reinhardii</i>	437
A Granulopoiesis Inhibitor Partially Purified from Large-Scale Serum-Free Cultures of Porcine Leukocytes	639	Physiological Changes in <i>Matricaria inodora</i> Following Ioxynil and Bromoxynil Treatment Herbicides	505
Growth Inhibition Chemical Defense of Leguminosae. Are Quinolizidine Alkaloids Part of the Antimicrobial Defense System of Lupins?	548	Interference by Herbicidal Inhibitors of Electron Transport with Phosphorylation and Permeability Properties of Chloroplast Membranes	329
fense System of Lupins?	540	The Effects of 3-(3,4-Dichlorophenyl)-1,1-di-	
The Influence of Cysteine on the Reaction of d-Guanosine with <i>cis</i> -Diaminedichloroplatinum	100	methylurea on the Photosynthetic Oxygen Complex Herbicide/Quinone Binding Interactions in Pho-	347
(II) (N)	180	tosystem II	368

Interaction of Photosystem II Herbicides with Bi-		man Erythrocytes (Homozygous β -Thalassemia)	1.60
carbonate and Formate in Their Effects on Pho-	274	at Radiowave Frequencies	160
tosynthetic Electron Flow	374	Effect of Extracellular Alkali Metal Salts on the Electric Parameters of Human Erythrocytes in	
Comparison of Diuron- and Phenol-Type Inhibitors: Additional Inhibitory Action at the Photo-		Normal and Pathological Conditions (Homozy-	
system II Donor Site	389	gous β -Thalassemia)	1163
Structure Activity Correlation of Herbicides Af-		Hormone Binding Proteins	
fecting Plastoquinone Reduction by Photosystem		Juvenile Hormone III as a Natural Ligand for	
II: Electron Density Distribution in Inhibitors		Photoaffinity Labelling of JH-Binding Proteins	1145
and Plastoquinone Species	405	HPLC	
Protein Sequence Homologies between Portions		HPLC Analysis of Alkaloids in Extracts of Callus	690
of the L and M Subunits of Reaction Centers of		Cultures of Cinchona Species (N)	680
Rhodopseudomonas capsulata and the Q _B -Protein of Chloroplast Thylakoid Membranes: a Propo-		About the Similarity between Polymaleic Acid	
sed Relation to Quinone-Binding Sites	421	and Water Soluble Humic Fractions	244
Short Note on Dihydropyrones, a New Herbici-		Hybrids	
dal Family with Bleaching Properties	459	Inheritance of mitochondrial DNA in Oenothera	
Interaction of Herbicides with Pea Chloroplasts	464	berteriana and Oenothera odorata Hybrids (N)	191
Multiple Modes of Action of Diphenyl Ethers	468	Hydrogenase	
The Diphenyl-Ether Herbicide Oxyfluorfen: A		Nickel-Dependent Uptake-Hydrogenase Activity	00
Potent Inducer of Lipid Peroxidation in Higher	176	in the Blue-Green Alga Anabaena variabilis	90
Plants	476	Activation Volumes of the Calcium Dependent	
Herbicides Translocation Use of Chlorophyll Fluorescence Induction Ki-		para-Nitrophenyl Phosphate Hydrolysis of the	
netics to Study Translocation and Detoxication		Sarcoplasmic Reticulum Calcium Transport En-	
of DCMU-Type Herbicides in Plant Leaves	354	zyme	282
Herpetol		p -Hydroxy- β -[carboxymethyl]-cinnamic Acid	
Herpetol, a New Dimeric Lignoid. from Herpeto-		A Convenient Synthesis of p-Hydroxy- β -[carboxy-	
spermum caudigerum Wall (Ň)	307	methyl]-cinnamic Acid (Sphagnum Acid) (N)	311
Herpetospermum caudigerum		Hydroxycinnamic Acid Matabalia Activity of Hydroxycinnamic Acid	
Herpetol, a New Dimeric Lignoid. from Herpeto-	207	Metabolic Activity of Hydroxycinnamic Acid Glucose Esters in Cell Suspension Cultures of	
spermum caudigerum Wall ($ ilde{N}$) Heteroptera	307	Chenopodium rubrum	902
γ -Butyrolactone from the Black Stink Burg:		Hydroxycinnamoylmalic Acids	, , , _
Aethus indicus Westwood (Hemiptera: Penta-		Hydroxycinnamoyl Esters of Malic Acid in Small	
tomidae) (N)	313	Radish (Raphanus sativus L. var. sativus)	515
Chemosystematics of Japanese Heterotropa (Ari-		Hydroxyl Radical	
stolochiaceae)	705	Mechanisms of Adriamycin-Dependent Oxygen	
Hieracium intybaceum		Activation Catalyzed by NADPH-Cytochrome	261
Exudate Flavanoids in <i>Hieraceum intybaceum</i> ,	022	<i>c</i> -(Ferredoxin)-Oxidoreductase	201
an Alpine Hawkweed (N)	833	A Convenient Synthesis of p-Hydroxy- β -[carboxy-	
High Energy Radiation High Energy Radiation-Induced Crosslinking of		methyl]-cinnamic Acid (Sphagnum Acid) (N)	311
Histone Octamer Complexes	1075		
High Performance Liquid Chromatography (HPLC)			
Determination of 4-Pregnene-3-ones in Thymus		Ichneumonidae	
Tissue Samples by High Performance Liquid		Yeast-Like Endosymbionts in an Ichneumonid	
Chromatography (N)	1012	Wasp (N)	322
High Pressure		Identification Hydroxycinnamoyl Esters of Malic Acid in Small	
Pressure Induced Shifts in Spectral Properties of Pigment-Protein Complexes and Photosynthetic		Radish (Raphanus sativus L. var. sativus)	515
Organisms	1104	Immune Serum	313
Higher Fungi		Immune Serum against Anti-DNA-8-Methoxy-	
Inorganic Bromide in Higher Fungi	863	psoralen Photoadduct	136
Hill Reaction		Immunodeficiency	
Formate as an Inhibitor of Photosynthetic Elec-		Stimulation of Immunoreactivity against Endo-	
tron Flow	386	genous Retroviruses and Protection against Leu-	
Cyanoacrylate Inhibitors of the Hill Reaction III.		kemia of Older AKR Mice by Treatment with Antibodies against Retroviral Surface Compo-	
Stereochemical and Electronic Aspects of Inhibi-	(17	nents. Role of p15(E) Antibody (N)	1199
tor Binding	617	Immunofluorescence	11,,,
Histocompatibility Antigens		Immune Serum against Anti-DNA-8-Methoxy-	
Rabbit Antipeptide Antibodies against Restrict-	616	psoralen Photoadduct	136
ed Domains of the Histocompatibility Complex	646	Immunotherapy	
Histone Octamers High Energy Radiation-Induced Crosslinking of		Stimulation of Immunoreactivity against Endo-	
Histone Octamer Complexes	1075	genous Retroviruses and Protection against Leu- kemia of Older AKR Mice by Treatment with	
Homozygous β-Thalassemic Erythrocytes	10,0	Antibodies against Retroviral Surface Compo-	
Conductivity of Normal and Pathological Hu-		nents. Role of p15(E) Antibody (N)	1199
,		1	

in vitro Replication The Cellular Substrate: A Very Important Requirement for Baculovirus in vitro Replication	993	and a Biliprotein during Pupal-Adult Develop- ment of a Butterfly, <i>Pieris brassicae</i> Insoluble Membrane Residue	938
Inactivation Photoinactivation of <i>Propionibacterium acnes</i> by	773	The Triton X-100 and High Salt Resistant Residue of Saccharomyces cerevisiae Nuclear Mem-	
Near-Ultraviolet Light	300	branes, II	156
Inactivation Mechanism Studies on the Possible Mechanism of Inactivation of Phenylalanine Hydroxylase by Destruc-		Insulin Insulin Binding Sites Induced in the <i>Tetrahyme-na</i> by Rat Liver Receptor Antibody (N)	183
tive Oxygen Species	734	Intensity Dependence	
Indol Alkaloids Uncoupling of Spinach Thylakoids by Gramine	746	The Sensitivity Shift Due to Light Adaptation Depending on the Extracellular Calcium Ion	
Inhibition	740	Concentration in Limulus Ventral Nerve Photo-	
Formate as an Inhibitor of Photosynthetic Elec-	207	receptor	662
tron Flow	386	Intensity Dependence of Receptor Potential Octopamine Modulates the Sensitivity of <i>Limu</i> -	
Inhibition by Sethoxydim of Chloroplast Bio-		lus Ventral Photoreceptor	981
genesis, Development and Replication in Barley		Interaction Photosynthesis/Respiration	
Seedlings	115	Interaction of Photosynthetic and Respiratory Electron Transport in Blue-Green Algae: Effect	
Inhibitor Binding Redox-State Dependent Changes of Inhibitor-		of a Cytochrome c-533 Specific Antibody	623
Binding to the Photosystem II Acceptor Com-		Intra-Complex-Crosslinking	
plex	397	High Energy Radiation-Induced Crosslinking of	
Inhibitor Receptor Site		Histone Octamer Complexes	1075
Cyanoacrylate Inhibitors of Photosynthetic Elec-		Intramolecular Hydrogen Bond The Crystal Structure of Anhydrous Xanthosine	
tron Transport. Nature of the Interaction with the Receptor Site	335	Displays Intramolecular O(2')H O(3') Hydro-	
Inhibitors	000	gen Bond	720
Comparison of Diuron- and Phenol-Type Inhibi-		Intranuclear Crystals	
tors: Additional Inhibitory Action at the Photo-	389	Intranuclear Crystals in the Intestinal Epitheli- um of the Snail Marisa cornuarietis (Prosobran-	
system II Donor Site	309	chia) (N)	186
Action of Certain Bleaching Herbicides	443	Ion Transport	
Identification and Field Evaluation of a Sex Phe-		Electron Microscopic Evidence for the Transmem-	177
romone of the European Pine Moth (N)	1192	brane Displacement of Calcium ATPase (N) Functional and Regulatory Properties of H ⁺	177
Inhibitors of Electron Transport Cyanoacrylate Inhibitors of the Hill Reaction III.		Pumps at the Tonoplast and Plasma Membranes	
Stereochemical and Electronic Aspects of Inhibi-		of Zea mays Coleoptiles	927
tor Binding	617	Ioxynil	
Inhibitors of Phytoene Desaturation Inhibition of Caratana Ricsynthesis in Call Ex		Increased Binding of [14C]Ioxynil in Unicellular Green Algae under Anaerobiosis and by Ad-	
Inhibition of Carotene Biosynthesis in Cell Extracts of <i>Phycomyces blakesleeanus</i>	460	dition of Other Phenolic Herbicides or Un-	
Inner Histones	,,,,	couplers	402
Polycation-Cell Surface Interactions and Plasma		Physiological Changes in Matricaria inodora Fol-	505
Membrane Compartments in Mammals. Inter-		lowing Ioxynil and Bromoxynil Treatment	505
ference of Oligocation with Polycationic Con- densation	767	fridaceae 6-Hydroxyflavones and Other Flavonoids of	
Inorganic Bromide		Crocus	18
Inorganic Bromide in Higher Fungi	863	Isoflavone	
Insect Cuticle Incorporation of Radiolabeled Tyrosine, N-Ace-		Degradation of the Isoflavone Biochanin A-7-O-	
tyldopamine, N- β -Alanyldopamine, and the		glucoside-6"O-malonate and Phenylacetic Acids	001
Arylphorin Manducin into the Sclerotized Cu-		by Fusarium javanicum	882
ticle of Tobacco Hornworm (Manduca sexta)	1066	Isoflavonoids The Structure of Desmocarpin, a Pterocarpan	
Pupae	1066	Phytoalexin from Desmodium gangeticum	531
Insect Development Development-Specific Incorporation of [14C]5-		Induced and Constitutive Isoflavonoids in Pha-	000
Aminolevulinate and [3H]Leucine into Cyto-		seolus mungo L. Leguminosae	888
chrome c and Biliprotein in the Butterfly, <i>Pieris</i>		Isolation Hydroxycinnamoyl Esters of Malic Acid in Small	
brassicae. Correlation with the Ecdysteroid Titer in the Pupa	948	Radish (Raphanus sativus L. var. sativus)	515
Insect Haemolymph	240	Isolation and Respiratory Assay of Earthworm	
Juvenile Hormone III as a Natural Ligand for		Body Wall Mitochondria (N)	853
Photoaffinity Labelling of JH-Binding Proteins	1145	A New Isolation Procedure for Acylamino Acid Amidohydrolase. Kinetics of the Co ²⁺ , Mn ²⁺ ,	
Insect Vision The Chromophore of the Visual Pigment in		Amidonydrolase. Kinetics of the Co , Will , Ni^{2+} and Cd^{2+} Enzyme (N)	1017
Some Insect Orders (N)	196	Isopropylmethyl Disulfide	'
Insects	-5-5	Characterization of <i>Microcystis</i> Strains by Alkyl	
De novo Synthesis and Levels of Cytochrome c		Sulfides and β -Cyclocitral	867

 D6a: Isovitexin 2"-O-Arabinoside O7g and D6a: Two Flavone Glycosylating Genes in Silene, which are Only Expressed in Cotyledons and Rosette Leaves O7g: Isovitexin 7-O-Galactoside 	568	New Dextrorotatory Pterocarpan Phytoalexins from Leaflets of Nissolia fruticosa The Structure of Desmocarpin, a Pterocarpan Phytoalexin from Desmodium gangeticum	13 531
O7g and D6a: Two Flavone Glycosylating Genes in Silene, which are Only Expressed in Cotyledons and Rosette Leaves	586	Occurrence of Mercaptopyruvate Sulfotransfer- ase Activity in Photosynthetic Organisms	916
Juvenile Hormone III as a Natural Ligand for Photoaffinity Labelling of JH-Binding Proteins Titer of Juvenile Hormone III in <i>Drosophila hy-</i>	1145	Lepidoptera The Distribution of β -Cyano-L-alanine in Cyanogenic Lepidoptera (N)	837
dei during Metamorphosis Determined by GC-MS-MIS	1150	Effects of Vitamin D ₃ on <i>in vivo</i> Labelling of Chick Skeletal Muscle Proteins with [³ H]Leucine (N)	1015
K ⁺ Diffusion Potential ATP Synthesis Driven by a Valinomycine Induced K ⁺ Diffusion Potential in Liposomes Bearing Chloroplast ATP Synthase (N)	320	Light- and Dark-Adaptation Octopamine Modulates the Sensitivity of <i>Limulus</i> Ventral Photoreceptor Light Dependence of Fatty Acid Synthesis in Chloroplasts	981
Kaempferol Glycosides 6-Hydroxyflavones and Other Flavonoids of Crocus	18	Regulation of Acetyl-Coenzyme A Carboxylase and Acetyl-Coenzyme A Synthetase in Spinach Chloroplasts	268
Novel Epicuticular Leaf Flavonoids from <i>Kalmia</i> and <i>Gaultheria</i> (Ericaceae)	710	Light Harvesting Complexes Occurrence of the Bacteriochlorophyll-Binding Polypeptides B870\alpha and B800-B850\alpha in the Mutant Strains Y5 and A1a ⁺ of Rhodopseudomo-	·
A New Isolation Procedure for Acylamino Acid Amidohydrolase. Kinetics of the Co ²⁺ , Mn ²⁺ , Ni ²⁺ and Cd ²⁺ Enzyme (N)	1017	nas capsulata, which are Defective in Formation of the Light-Harvesting Complexes B870 and B800–850, Respectively	922
Accumulation of Volatile Flavour Compounds in Liquid Cultures of <i>Kluyveromyces lactis</i> Strains	1030	Light-Induced Hydrogen Evolution Nickel-Dependent Uptake-Hydrogenase Activity in the Blue-Green Alga Anabaena variabilis	90
Laminariales Lamoxirene. Structural Proof of the Spermato- zoid Releasing and Attracting Pheromone of La- minariales (N)	689	Light-Induced Turnover Herbicide-Binding Protein, Binding Sites and Electron-Transport Activity: Quantitative Relations	430
Lamprey Neuroanatomical Evidence for Electroreception in Lampreys (N)	856	Light Microscopy Oxidized <i>p</i> -Phenylenediamine Staining of Epoxy Resin Sections (N)	835
Large Liposomes Fusion of Large Unilamellar Liposomes Containing Hemocyanin with Planar Bilayer Mem-		Light Scattering High Energy Radiation-Induced Crosslinking of Histone Octamer Complexes	1075
branes Large-Scale Isolation A Granulopoiesis Inhibitor Partially Purified	147	Lignoids Herpetol, a New Dimeric Lignoid. from Herpetospermum caudigerum Wall (N)	307
from Large-Scale Serum-Free Cultures of Porcine Leukocytes	639	Ligustilidiol Phthalide Derivatives from Meum athamanticum Jacq	872
romone of the European Pine Moth (N) Lateral Line Afferents Neuroanatomical Evidence for Electroreception	1192	Liliaceae Biosynthesis of the Bufadienolide Ring of Scillirosid in <i>Scilla maritima</i>	38
in Lampreys (N)	856	Limulus Ventral Nerve Photoreceptor The Sensitivity Shift Due to Light Adaptation Depending on the Extracellular Calcium Ion	
Latex	1034	Concentration in <i>Limulus</i> Ventral Nerve Photoreceptor Influence of the Membrane Potential on the In-	662
an Alpine Hawkweed (N) Leaf Resin Flavonoid Aglycones in the Leaf Resin of Some	833	tracellular Light Induced Ca ²⁺ -Concentration Change of the <i>Limulus</i> Ventral Photoreceptor Monitored by Arsenazo III under Voltage Clamp	006
Cistus Species (N)	303 1184	Conditions	986 981
Leaf Peroxisomes Comparison of the Action of Bleaching Herbicides	450	Linoleate Product Specificity during Incubation of Methyl Linoleate with Soybean Lipoxygenase-I (N)	171

Lipid-Intermediates Glycoprotein Biosynthesis in <i>Phytophthora megasperma</i> f. sp. <i>glycinea</i> . An <i>in vitro</i> Study Lipid Peroxidation Photodynamic Damage to Isolated Chloroplasts:	222	Membrane Voltage Dependence of the Light-Induced Arsenazo III Signal Influence of the Membrane Potential on the Intracellular Light Induced Ca ²⁺ -Concentration Change of the <i>Limulus</i> Ventral Photoreceptor	
A Possible Model for <i>in vivo</i> Effects of Photosynthetic Inhibitor Herbicides Lipophilic Vitamins	482	Monitored by Arsenazo III under Voltage Clamp Conditions	986
Effects of Vitamin A in the Presence of Vitamins D ₃ , E, K ₁ on Red Cell Membrane Structure Liposomes ATP Synthesis Driven by a Valinomycine In-	749	Interference by Herbicidal Inhibitors of Electron Transport with Phosphorylation and Permeabil- ity Properties of Chloroplast Membranes Thermal Diffusion as a Mechanism for Biological	329
duced K ⁺ Diffusion Potential in Liposomes Bearing Chloroplast ATP Synthase (N) Flash Photolysis of Liposomes Containing Chlo-	320	Transport	656
rophyll and Zeaxanthin, as a Function of Temperature (2°-34°C)	1108	charges: Further Support for the Hypothesis of Involvement of Electrofusion in Evolution Effects of Membrane-Acting Drugs and Aerobio-	973
Properties of Membrane Fractions Prepared by Chromatophore-Liposome Fusion Lipoxygenase-I	1112	sis on Production of Streptolysin S and Nuclease in Hemolytic Streptococci	1128
Product Specificity during Incubation of Methyl Linoleate with Soybean Lipoxygenase-I (N) Luminescence	171	Occurrence of Mercaptopyruvate Sulfotransfer- ase Activity in Photosynthetic Organisms [35S]Met Labeling	916
Comparison of Diuron- and Phenol-Type Inhibitors: Additional Inhibitory Action at the Photosystem II Donor Site	389	Herbicide-Binding Protein, Binding Sites and Electron-Transport Activity: Quantitative Rela-	430
Lymphocytes Dose Rate Dependence of Radiation Induced IgG Membrane Receptor Alteration [1] (N)	1021	Metabolic Effects Metabolic Effects of Direct Current Stimulation	
Lyophilized Blood ESR Investigations on Lyophilized Blood: Mix-		on Cultured Vascular Smooth Muscle Cells Metabolism Isolation and Respiratory Assay of Earthworm	1141
tures with Ascorbic Acid (N)	174	Body Wall Mitochondria (N)	853
Manduca sexta, Locusta migratoria Juvenile Hormone III as a Natural Ligand for Photoaffinity Labelling of JH-Binding Proteins	1145	tinuous Flow ¹³ C NMR Spectroscopy (N) Metabolites	859
Mannosidase Legume Root Response to Symbiotic Infection. Enzymes of the Peribacteroid Space	123	Constituents of <i>Agaricus xanthodermus</i> Genevier: The First Naturally Endogenous Azo Compound and Toxic Phenolic Metabolites	1027
Marisa Intranucelar Crystals in the Intestinal Epitheli- um of the Snail Marisa cornuarietis (Prosobran-		Metall Ion Exchange A New Isolation Procedure for Acylamino Acid Amidohydrolase. Kinetics of the CO ²⁺ , Mn ²⁺ , Ni ²⁺ and Cd ²⁺ Enzyme (N)	1017
chia) (N) Masking Temperature Responses System Analysis of the Circadian Rhythm of Euglena gracilis, II: Masking Effects and Mutual Interactions of Light and Temperature Re	186	Metamorphosis Titer of Juvenile Hormone III in <i>Drosophila hydei</i> during Metamorphosis Determined by GC-MS-MIS	1150
Interactions of Light and Temperature Responses	801	Metathorax γ -Butyrolactone from the Black Stink Bug:	
The Triton X-100 and High Salt Resistant Residue of Saccharomyces cerevisiae Nuclear Membranes II	156	Aethus indicus Westwood (Hemiptera: Pentatomidae) (N)	313
branes, II		The Effect of Phosphinothricin on the Assimilation of Ammonia in Plants	500
lowing Ioxynil and Bromoxynil Treatment Matthiola incana Conversion of Dihydroflavonols to Flavonols	505	Methyl Flavonoids Flavonoid Aglycones in the Leaf Resin of Some Cistus Species (N)	303
with Enzyme Extracts from Flower Buds of Matthiola incana R. Br	714	C-Methyl-flavonols Novel Epicuticular Leaf Flavonoids from <i>Kalmia</i> and <i>Gaultheria</i> (Ericaceae)	710
Adenylate Cyclase by Acidic Phospholipids (N) Membrane Fusion Fusion of Large Unilamellar Liposomes Con-	1196	Methylation Analyses Structural Studies on the Galactan from the Albumin Gland of <i>Achatina fulica</i>	1063
taining Hemocyanin with Planar Bilayer Mem-	1.47	Methylene Blue	
Properties of Membrane Fractions Prepared by Chromatophore-Liposome Fusion	147 1112	Red-Light Effects Sensitized by Methylene Blue on Nitrate Reductase from Spinach (<i>Spinacia oleracea</i> L.) Leaves	1079

Methylketones		Monolayer Models	
Characterization of Volatile Constituents from		Surface Pressure Hysteresis of Mixed Lipid/Pro-	
Photomixotrophic Cell Suspension Cultures of	535	tein Monolayers: Applications to the Alveolar	065
Ruta graveolens	525	Dynamics	965
Metribuzin Posistant Mutants of Chlamudous		Morphology Y Pay Studies on Pheenholinid Bilayers III	
Metribuzin-Resistant Mutants of Chlamydomo-	127	X-Ray Studies on Phospholipid Bilayers. III.	
nas reinhardii	437	Structure and Morphology of L-\a-Dilaurylphos-	1.4.1
Interaction of Herbicides with Pea Chloroplasts	464	phatidylethanolamine (DLPE)	141
Meum athamanticum		Multiple Forms	
New Cinnamoyl Esters of Quinic Acid from	167	Glutamate Dehydrogenase of Pisum sativum:	
Meum athamanticum (N)	167	Heat-Dependent Interconversion of the Multiple	257
Phthalide Derivatives from Meum athamanticum	073	Forms.	257
Jacq	872	Mutagen	
Mevinolin Chloroplast Piaganesia Ita Inhibition and Madi		Salmonella/Microsome Mutagenicity of 1-Nitro-	
Chloroplast Biogenesis, Its Inhibition and Modi-	402	pyrene-2-ol, a Nitropyrene Phenol Formed in	102
fication by New Herbicide Compounds	492	the Photolysis of 1-Nitropyrene (N)	193
Micelles Temperature Induced Spectral Changes of Chile		Mutagenicity Salmanalla (Microsoma Mutagenicity of 1 Nitro	
Temperature Induced Spectral Changes of Chlorophyll in Micelles and Solution (N)	605	Salmonella/Microsome Mutagenicity of 1-Nitro-	
rophyll in Micelles and Solution (N)	685	pyrene-2-ol, a Nitropyrene Phenol Formed in	193
Characterization of Missessetic Staning by Alled		the Photolysis of 1-Nitropyrene (N)	193
Characterization of <i>Microcystis</i> Strains by Alkyl	967	Mutation	
Sulfides and β -Cyclocitral	867	A High Frequency Mutation Starts Sexual Re-	1150
Miotoxin-A		production in Volvox carteri	1159
Miotoxin-A: A Novel Macrocyclic Trichothecene	212	Mycobacterium smegmatis	
from the Brazilian Plant Baccharis coridifolia	212	Phospholipids and Glycerides Composition dur-	
Mitochondria		ing Spheroplasts Formation of Mycobacterium	062
Comparison of the Polypeptide Complement of		smegmatis ATCC 14468	962
Different Plastid Types and Mitochondria of	7.50	Myxobacterales	,
Narcissus pseudonarcissus	758	Novel Ceramides from <i>Cystobacter fuscus</i>	1
Effects of Vitamin D ₃ on in vivo Labelling of		Myxobactone	,
Chick Skeletal Muscle Proteins with [3H]Leucine	1015	Novel Ceramides from <i>Cystobacter fuscus</i>	1
(N)	1015	NAD+ A - 1	
Mitochondrial DNA		NAD ⁺ -Analogs	
Inheritance of mitochondrial DNA in <i>Oenothera</i>	101	Preparation of an Affinity Chromatographic	
berteriana and Oenothera odorata Hybrids (N)	191	System for the Separation of ADP Binding	1043
Mixed Lipid/Protein Monolayers		Proteins	1042
Surface Pressure Hysteresis of Mixed Lipid/Pro-		NAD Kinase	
tein Monolayers: Applications to the Alveolar	065	Causal Relationships among Metabolic Circadi-	72
Dynamics	965	an Rhythms in Lemna	73
MO Calculation Structure Activity Correlation of Harbicides Af		NADP+	
Structure Activity Correlation of Herbicides Af-		Causal Relationships among Metabolic Circadi-	72
fecting Plastoquinone Reduction by Photosystem		an Rhythms in Lemna	73
II: Electron Density Distribution in Inhibitors	105	Narcissus	
and Plastoquinone Species	405	Comparison of the Polypeptide Complement of	
Molecular and Kinetic Characterization		Different Plastid Types and Mitochondria of	758
Purification by Affinity Chromatography of Glu-		Narcissus pseudonarcissus	130
tathione Reductase (EC 1.6.4.2) from Escherichia	000		
coli and Characterization of such Enzyme Molecular Basis of Herbicide-Resistance	908	Field Desorption and Fast Atom Bombardment	
The Molecular Basis of Triazine-Herbicide Re-		Mass Spectrometry of Spirostanol and Furostanol Saponins from <i>Paris polyphylla</i>	201
	412	nol Saponins from <i>Paris polyphylla</i>	201
sistance in Higher-Plant Chloroplasts Molecular Conformation	412	Photoinactivation of Propionibactorium ganes by	
		Photoinactivation of <i>Propionibacterium acnes</i> by	200
Conformation about the Glycosidic Bond and		Near-Ultraviolet Light	300
Susceptibility to 5'-Nucleotidase of 8-Substituted	5.5	Neuroanatomy	
Analogues of 5'-GMP	55	Neuroanatomical Evidence for Electroreception	054
Molecular Weight Determination		in Lampreys (N)	856
Field Desorption and Fast Atom Bombardment		Neutrotransmitters Stimulation of Proin Symantosome Associated	
Mass Spectrometry of Spirostanol and Furosta-	201	Stimulation of Brain Synaptosome – Associated	1106
nol Saponins from Paris polyphylla	201	Adenylate Cyclase by Acidic Phospholipids (N)	1196
Mollusc Repellency Chamical Defense of Luning Molluse Repellent		NMR- and X-Ray Structure Analysis	
Chemical Defense of Lupins. Mollusc-Repellent	552	Miotoxin-A: A Novel Macrocyclic Trichothecene	212
Properties of Quinolizidine Alkaloids	553	from the Brazilian Plant Baccharis coridifolia .	212
Molt Inhibition Feeding and Molt Inhibition by Azadirachtins A		Structure Determination of 6 C B D glucopyra	
Feeding and Molt Inhibition by Azadirachtins A,		Structure Determination of 6-C- β -D-glucopyra-	
B, and 7-Acetyl-azadirachtin A in <i>Rhodnius pro-</i>	1155	nosyl-8-C- α -L-arabinopyranosyltricetin from Ra -	200
lixus Nymphs	1155	dula complanata (N)	309
Monoclonal Antibodies The Collular Substrates A Very Important Be		Nickel Requirement	
The Cellular Substrate: A Very Important Re-	003	Nickel-Dependent Uptake-Hydrogenase Activity	00
quirement for Baculovirus in vitro Replication .	993	in the Blue-Green Alga Anabaena variabilis	90

Nicotiana tabacum		Olfactory Receptors	
An Adsorbent as Phytohormone Reservoir in a	4.5	Specificity of Synthetic Sex-Attractants in Zy-	0.41
Plant Cell Suspension Culture	45 1023	gaena Moths (N)	841
A New Cembranoid from Tobacco, IV	1023	tuid Moth <i>Rhyacia baja</i> Schiff (N)	845
New Dextrorotatory Pterocarpan Phytoalexins		The Pheromone Receptor System of Male Eulia	043
from Leaflets of Nissolia fruticosa	13	ministrana L., with Notes on other Cnephasiini	
Nitrate Reductase		Moths (N)	849
Red-Light Effects Sensitized by Methylene Blue		Identification and Field Evaluation of a Sex Phe-	
on Nitrate Reductase from Spinach (Spinacia		romone of the European Pine Moth (N)	1192
oleracea L.) Leaves	1079	Ontogeny	
Nitrate Reduction		07g and D6a: Two Flavone Glycosylating Genes	
Light Dependent Ammonium Inhibition of Ni-		in Silene, which are Only Expressed in Cotyle-	568
trate Assimilation in <i>Rhodopseudomonas capsula-</i> ta AD2	85	dons and Rosette Leaves	300
Nitro/Non-nitro Diphenyl Ethers	0.5	Chemosystematics of Japanese Heterotropa (Ari-	
Multiple Modes of Action of Diphenyl Ethers	468	stolochiaceae)	705
Nitro/Non-nitro diphenyl Ethers		Organelle	
Radical Formation and Peroxidative Activity of		Alkaloid Sequestration by Papaver somniferum	
Phytotoxic Diphenyl Ethers	486	Latex	876
Nitro-Tyrosine		$1000 \times g$ Organelles	
Tyrosine Oxidation by NO2 in Aqueous Solu-	725	Dopamine Accumulation in Papaver somniferum	1034
tion	123	Latex	1034
Tyrosine Oxidation by NO ₂ in Aqueous Solu-		Thermal Diffusion as a Mechanism for Biological	
tion	725	Transport	656
1-Nitropyrene		Oscillations	
Salmonella/Microsome Mutagenicity of 1-Nitro-		Impaired Diffusion Coupling-Source of Arrhyth-	
pyrene-2-ol, a Nitropyrene Phenol Formed in		mia in Cell Systems	1170
the Photolysis of 1-Nitropyrene (N)	193	Osmotic Fragility	
1-Nitropyrene-2-ol		The Life Span and Osmotic Fragility of Erythrocytes in Mice Bearing Benzo(a) Pyrene – Induced	
Salmonella/Microsome Mutagenicity of 1-Nitro- pyrene-2-ol, a Nitropyrene Phenol Formed in		Fibrosarcoma (N)	198
the Photolysis of 1-Nitropyrene (N)	193	Oxidative Phosphorylation	170
Nitroxide Spin Label	175	Isolation and Respiratory Assay of Earthworm	
A Nitroxide Diuron Analog as a Probe for the		Body Wall Mitochondria (N)	853
Mode of Action of Herbicides	342	Oxygen	
Noctuidae		Photoinactivation of <i>Propionibacterium acnes</i> by	• • • •
Analysis of a Sex-Attractant System in the Noc-	0.45	Near-Ultraviolet Light	300
tuid Moth Rhyacia baja Schiff (N)	845	Flash Pattern of Oxygen Evolution in Greening	1001
Nuclear Membrane The Triton X-100 and High Salt Resistant Resi-		Etioplasts of Oat	1091
due of Saccharomyces cerevisiae Nuclear Mem-		Mechanisms of Adriamycin-Dependent Oxygen	
branes, II	156	Activation Catalyzed by NADPH-Cytochrome	
Nuclease		c-(Ferredoxin)-Oxidoreductase	261
Effects of Membrane-Acting Drugs and Aerobio-		Oxygen Effect	
sis on Production of Streptolysin S and Nuclease		Identification of a Major Pathway of Strand	
in Hemolytic Streptococci	1128	Break Formation in Poly U Induced by OH Ra-	215
Nucleoid Sedimentation Differences between Pet Splenie and Thymic		dicals in Presence of Oxygen (N) Oxygen Evolution	315
Differences between Rat Splenic and Thymic Cells with Respect to the Effects of Ethidium		The Effects of 3-(3,4-Dichlorophenyl)-1,1-di-	
Bromide on the Unscheduled DNA Synthesis		methylurea on the Photosynthetic Oxygen Com-	
(DNA Repair Synthesis) and the Nucleoid Sedi-		plex	347
mentation	600	Studies on the Functional Mechanism of System	
5'-Nucleotidase		II Herbicides in Isolated Chloroplasts	362
Conformation about the Glycosidic Bond and		Studies on the O ₂ Evolution under Flash Light	
Susceptibility to 5'-Nucleotidase of 8-Substituted		Illumination in Preparations of Anacystis nidu-	1007
Analogues of 5'-GMP	55	lans	1097
		Oxygen Supply Oxygen Supply of Roots by Gas Transport in Al-	
Occurrence and Distribution		der-Trees (N)	1186
Aliphatic l-Amino Acid Decarboxylase from		Oxygen Toxicity	
Ferns (Filicopsida)	24	Mechanisms of Adriamycin-Dependent Oxygen	
Octopamine		Activation Catalyzed by NADPH-Cytochrome	
Octopamine Modulates the Sensitivity of <i>Limu-</i>	001	c-(Ferredoxin)-Oxidoreductase	261
lus Ventral Photoreceptor	981	pH-Effect Identification of NI Glycalylbiurat in the Gam	
Oenothera Inheritance of mitochondrial DNA in Oenothera		Identification of N¹-Glycolylbiuret in the Gamma Radiolysis of Aerated Aqueous Solution of	
berteriana and Oenothera odorata Hybrids (N)	191	Cytosine. Influence of the pH	64
5		r	

Packing of DNA		Phenylalanine Hydroxylase	
Packing Pattern of DNA in Bacteriophage T2	692	Comparison of Different Methods for the Deter-	
Papaver somniferum L.		mination of Phenylalanine Hydroxylase Activity	720
Alkaloid Sequestration by Papaver somniferum	876	in Rat Liver and Euglena gracilis	728
Latex	8/0	Studies on the Possible Mechanism of Inactiva-	
New Dextrorotatory Pterocarpan Phytoalexins		tion of Phenylalanine Hydroxylase by Destruc- tive Oxygen Species	734
from Leaflets of Nissolia fruticosa	13	p-Phenylenediamine	134
The Structure of Desmocarpin, a Pterocarpan	13	Oxidized <i>p</i> -Phenylenediamine Staining of Epoxy	
Phytoalexin from Desmodium gangeticum	531	Resin Sections (N)	835
Paragorgia	001	Phenylpropane	020
Arboxeniolide-1, a New, Naturally Occurring		Chemosystematics of Japanese Heterotropa	
Xeniolide Diterpenoid from the Gorgonian Pa-		(Aristolochiaceae)	705
ragorgia arborea of the Crozet Is. (S. Indian		Pheromone	
Ocean) (N)	1180	γ -Butyrolactone from the Black Stink Bug:	
Passive Permeability		Aethus indicus Westwood (Hemiptera: Penta-	
Isolation and Characterization of Tributyltin Re-		tomidae) (N)	313
sistant Mutants of Escherichia coli	293	Pheromone-Binding and Matrix-Mediated	504
Pea CH Link De Chief	161	Events in Sexual Induction of Volvox carteri	584
Interaction of Herbicides with Pea Chloroplasts	464	Lamoxirene. Structural Proof of the Spermato-	
Pentatomid γ-Butyrolactone from the Black Stink Bug:		zoid Releasing and Attracting Pheromone of La-	689
Aethus indicus Westwood (Hemiptera: Penta-		minariales (N)	007
tomidae) (N)	313	gaena Moths (N)	841
Peribacteroid Space	0.10	Analysis of a Sex-Attractant System in the Noc-	
Legume Root Response to Symbiotic Infection.		tuid Moth Rhyacia baja Schiff (N)	845
Enzymes of the Peribacteroid Space	123	Identification and Field Evaluation of a Sex Phe-	
Peroxidation	123	romone of the European Pine Moth (N)	1192
Multiple Modes of Action of Diphenyl Ethers	468	Phlebiarubrone	
The Diphenyl-Ether Herbicide Oxyfluorfen: A	400	New Terphenylquinones from Mycelial Cultures	
Potent Inducer of Lipid Peroxidation in Higher		of Punctularia atropurpurascens (Basidiomycetes)	
Plants	476		695
Petunia hybrida		Phlebiarubrone Derivatives	
Common Identity of UDP-Glucose: Anthocyani-		New Terphenylquinones from Mycelial Cultures	
din 3-O-Glucosyltransferase and UDP-Glucose:		of <i>Punctularia atropurpurascens</i> (Basidiomycetes)	695
Flavonol 3-O-Glucosyltransferase in Flowers of		[1]	093
Petunia hybrida	559	The Effect of Phosphinothricin on the Assimila-	
Phalloidin		tion of Ammonia in Plants	500
Examination of the Structure Activity Relation-		Phosphocholines	
ship of Antihepatotoxic Natural Products (Silybin-		Structure-Dependent Biological Activity of Ra-	
Antamanide) by X-Ray Analysis	535	cemic 1-Substituted 2-O-Hexadecylglycero-3-	
Phaseolus mungo		phosphocholines and Analogues	252
Induced and Constitutive Isoflavonoids in Pha-		Phospholipid	
seolus mungo L. Leguminosae	888	X-Ray Studies on Phospholipid Bilayers. III.	
[4-13C]Phenacetin		Structure and Morphology of L-α-Dilaurylphosphatidylethanolamine (DLPE)	141
In vivo Metabolism of [4-13C]Phenacetin in an		Phospholipids and Glycerides Composition dur-	141
Isolated Perfused Rat Liver Measured by Con-		ing Spheroplasts Formation of Mycobacterium	
tinuous Flow ¹³ C NMR Spectroscopy (N)	859	smegmatis ATCC 14468	962
Phenanthrene Biosynthesis		Phosphonate Compounds	
Two Different Pathways Leading to Phenan-		A Micromethod for Rapid Quantitative Determi-	
threnes and 9,10-Dihydrophenanthrenes of the		nation of Phosphonate Phosphorus	249
Genus Dioscorea	217	Phosphonolipids	
Phenols		A Micromethod for Rapid Quantitative Determi-	-
Constituents of Agaricus xanthodermus Gene-		nation of Phosphonate Phosphorus	249
vier: The First Naturally Endogenous Azo Com-		Phosphorylation	
pound and Toxic Phenolic Metabolites	1027	Alteration of Acylphosphate Formation of Car-	
Phenoxyl Radical		diac Sarcoplasmic Reticulum ATPase by Calmo-	289
Tyrosine Oxidation by NO2 in Aqueous Solu-		dulin-Dependent Phosphorylation	209
tion	725	Immune Serum against Anti-DNA-8-Methoxy-	
Phentolamine		psoralen Photoadduct	136
Octopamine Modulates the Sensitivity of Limu-		Photoaffinity Label	
lus Ventral Photoreceptor	981	Herbicide and Plastoquinone Binding to Photo-	
Phenylacetic Acids		system II	393
Degradation of the Isoflavone Biochanin A-7-O-		Photoaffinity Labelling	
glucoside-6"O-malonate and Phenylacetic Acids		Juvenile Hormone III as a Natural Ligand for	
by Fusarium javanicum	882	Photoaffinity Labelling of JH-Binding Proteins	1145

Photodestruction		Photosynthesis of Intact Leaves	
DCMU-Induced Fluorescence Changes and Pho-		Comparison of the Photosynthetic Capacity be-	
todestruction of Pigments Associated with an In-	351	tween Intact Leaves of Triazine-Resistant and -Susceptible Biotypes of Six Weed Species	440
hibition of Photosystem I Cyclic Electron Flow Photomixotrophic Cell Cultures	331	Photosynthetic Apparatus	440
Characterization of Volatile Constituents from		Properties of Membrane Fractions Prepared by	
Photomixotrophic Cell Suspension Cultures of		Chromatophore-Liposome Fusion	1112
Ruta graveolens	525	Photosynthetic Rate	
Photophosphorylation		The Effect of Phosphinothricin on the Assimila-	500
Effects of N-Aryl-N',N'-Dialkyl-1,2-Ethanedi-		tion of Ammonia in Plants	500
amines on ATP Formation in Chloroplasts. QSAR of Amine Uncouplers	107	DCMU-Induced Fluorescence Changes and Pho-	
Interference by Herbicidal Inhibitors of Electron	107	todestruction of Pigments Associated with an In-	
Transport with Phosphorylation and Permeabili-		hibition of Photosystem I Cyclic Electron Flow	351
ty Properties of Chloroplast Membranes	329	Photosystem II	
Photosensitization		Use of Chlorophyll Fluorescence Induction Ki-	
Red-Light Effects Sensitized by Methylene Blue		netics to Study Translocation and Detoxication	25
on Nitrate Reductase from Spinach (Spinacia	1070	of DCMU-Type Herbicides in Plant Leaves	354
oleracea L.) Leaves	1079	Herbicide/Quinone Binding Interactions in Pho-	368
Effect of Electron Transfer Inhibitors and Un-		Comparison of Bicarbonate Effects on the Vari-	300
coupling Agents on the Chlorophyll Fluores-		able Chlorophyll a Fluorescence of CO ₂ -De-	
cence Lifetime during Slow Fluorescence Decline		pleted and Non-CO ₂ -Depleted Thylakoids in the	
in Bean Leaves and Intact Chloroplasts	93	Presence of Diuron	378
Interference by Herbicidal Inhibitors of Electron		The Effects of Bicarbonate Depletion and For-	
Transport with Phosphorylation and Permeabili-	220	mate Incubation on the Kinetics of Oxidation-	
ty Properties of Chloroplast Membranes Cyanoacrylate Inhibitors of Photosynthetic Elec-	329	Reduction Reactions of the Photosystem II Quinone Acceptor Complex	382
tron Transport. Nature of the Interaction with		none Acceptor Complex	362
the Receptor Site	335	Binding to the Photosystem II Acceptor Com-	
Photosynthetic Electron Transport Inhibitors:		plex	397
Some Problems Related to an Accurate Determi-		Structure Activity Correlation of Herbicides Af-	
nation of the Molecular Site of Action	338	fecting Plastoquinone Reduction by Photosystem	
Measurements of Penetration and Detoxification		II: Electron Density Distribution in Inhibitors	406
of PS II Herbicides in Whole Leaves by a Fluoro-	359	and Plastoquinone Species	405
metric Method	339	Identification of the Herbicide Binding Region of the Q _B -Protein by Photoaffinity Labeling with	
tosystem II	368	Azidoatrazine	425
Interaction of Photosystem II Herbicides with Bi-		Increased Synthesis of Photosystem II in Triti-	
carbonate and Formate in Their Effects on Pho-		cum vulgare when Grown in the Presence of BAS	
tosynthetic Electron Flow	374	13-338	510
Formate as an Inhibitor of Photosynthetic Elec-	206	Studies on the O ₂ Evolution under Flash Light	
tron Flow	386	Illumination in Preparations of Anacystis nidulans	1097
tors: Additional Inhibitory Action at the Photo-		Photosystem II Complex	107/
system II Donor Site	389	Isolation of 32–35 kDa Thylakoid Proteins from	
The Molecular Basis of Triazine-Herbicide Re-		Chlamydomonas reinhardii	434
sistance in Higher-Plant Chloroplasts	412	Photosystem II Deficiency	
Protein Sequence Homologies between Portions		Isolation of 32–35 kDa Thylakoid Proteins from	127
of the L and M Subunits of Reaction Centers of <i>Rhodopseudomonas capsulata</i> and the Q _B -Protein		Chlamydomonas reinhardii	434
of Chloroplast Thylakoid Membranes: a Pro-		Photosystem II Particles Herbicide and Plastoquinone Binding to Photo-	
posed Relation to Quinone-Binding Sites	421	system II	393
Physiological Changes in Matricaria inodora Fol-		Phycomyces blakesleeanus	
lowing Ioxynil and Bromoxynil Treatment	505	Inhibition of Carotene Biosynthesis in Cell Ex-	
Increased Synthesis of Photosystem II in Triti-		tracts of Phycomyces blakesleeanus	460
cum vulgare when Grown in the Presence of BAS	510	Phytoalexins The Structure of Doornessering Branconner	
13-338	510	The Structure of Desmocarpin, a Pterocarpan Phytoalexin from <i>Desmodium gangeticum</i>	531
cocyanin and Its Subunits from Mastigocladus		Induced and Constitutive Isoflavonoids in <i>Pha-</i>	551
laminosus	606	seolus mungo L. Leguminosae	888
Inhibition of Photosynthetic Reactions by Au-		Phytoene Desaturase	
reomycin	627	Inhibition of Phytoene Desaturase – the Mode of	
Pressure Induced Shifts in Spectral Properties of		Action of Certain Bleaching Herbicides	443
Pigment-Protein Complexes and Photosynthetic	1104	Phytohormone Reservoir	
Organisms	1104	An Adsorbent as Phytohormone Reservoir in a Plant Cell Suspension Culture	45
A Nitroxide Diuron Analog as a Probe for the		Phytopathogenic Fungi	75
Mode of Action of Herbicides	342	Abscisic Acid in Phytopathogenic Fungi of the	

Genera Botrytis, Ceratocystis, Fusarium, and		Structure Activity Correlation of Herbicides Af-	
Rhizoctonia (N)	683	fecting Plastoquinone Reduction by Photosystem	
Production of C ₆ -Wound Gases by Plants and	1002	II: Electron Density Distribution in Inhibitors	105
the Effect on Some Phytopathogenic Fungi (N)	1003	and Plastoquinone Species	405
Phytophthora megasperma f. sp. glycinea Glycoprotein Biosynthesis in Phytophthora me-		Plastoquinone Depletion Herbicide and Plastoquinone Binding to Photo-	
gasperma f. sp. glycinea. An in vitro Study	222	system II	393
Phytotoxicity	222	Platelet Stimulating Activity	373
Herbal Insecticides II [1]. The Essential Oil from		Structure-Dependent Biological Activity of Ra-	
Leaves of Chrysanthemum balsamita L. Insectici-		cemic 1-Substituted 2-O-Hexadecylglycero-3-	
dal Activity and Composition	543	phosphocholines and Analogues	252
Picosecond Spectroscopy		Platinated Derivatives of Nucleic Acid Bases	
Time-Resolved Polarized Fluorescence of C-Phy-		Isolation of the Adducts of Platinum Complexes	
cocyanin and Its Subunits from Mastigocladus		and Nucleic Acid Bases on the Dowex 50 W	
laminosus	606	Column	1052
Pigment and Protein Content		Isolation of the Products Resulting from the Re-	
Effect of UV-B Radiation on Biomass Produc-		action of cis and trans Diamminedichloroplati-	
tion, Pigmentation and Protein Content of Ma-	(24	num [II] with DNA and Chromatin on the Do-	1055
rine Diatoms	634	wex 50 W Column	1057
Pigment Excitation Herbicides which Interfere with the Pigsynthesis		Poisonous Plants Microsyla A: A Novel Magraguelia Trighethesene	
Herbicides which Interfere with the Biosynthesis of Carotenoids and Their Effect on Pigment Ex-		Miotoxin-A: A Novel Macrocyclic Trichothecene from the Brazilian Plant <i>Baccharis coridifolia</i> .	212
citation, Chlorophyll Fluorescence and Pigment		Polarography	212
Composition of the Thylakoid Membrane	455	The Influence of Amino Acid Ligands and Vita-	
Pimpla turionellae		min C on the Reduction Potential of Fe(III): Po-	
Yeast-Like Endosymbionts in an Ichneumonid		larographic and Electron Spin Resonance In-	
Wasp (N)	322	vestigations	102
Pisum		Polionosome	
Occurrence of Mercaptopyruvate Sulfotransfer-	Oil and trace	Polycation-Cell Surface Interactions and Plasma	
ase Activity in Photosynthetic Organisms	916	Membrane Compartments in Mammals. Inter-	
Pisum sativum		ference of Oligocation with Polycationic Con-	7.0
Glutamate Dehydrogenase of <i>Pisum sativum</i> : Heat-Dependent Interconversion of the Multiple		densation	767
	257	Poly U Identification of a Major Pathway of Strand	
Forms	231	Break Formation in Poly U Induced by OH Ra-	
Fusion of Large Unilamellar Liposomes Con-		dicals in Presence of Oxygen (N)	315
taining Hemocyanin with Planar Bilayer Mem-			515
branes	147	Polyarginine Polycation-Cell Surface Interactions and Plasma	
Plant Cell Cultures		Membrane Compartments in Mammals. Inter-	
Hormone Induced Changes in Carotenoid Com-		ference of Oligocation with Polycationic Con-	
position in <i>Ricinus</i> Cell Cultures. I. Identifica-		densation	767
tion of Rhodoxanthin	50	Polymaleic Acid	
Hormone Induced Changes in Carotenoid Com-		About the Similarity between Polymaleic Acid	
position in <i>Ricinus</i> Cell Cultures. II. Accumula-		and Water Soluble Humic Fractions	244
tion of Rhodoxanthin during Auxin-Controlled	752	Polymyxin B	
Chromoplast Differentiation	753	Electron Microscopic Study of the Polymyxin	
Plant-Herbivore Interaction Chemical Defense of Lupins. Mollusc-Repellent		Treated Goat Erythrocytes	776
Properties of Quinolizidine Alkaloids	553	Polypodium vulgare	
Plant Hormones	333	Aliphatic l-Amino Acid Decarboxylase from	
Hormone Induced Changes in Carotenoid Com-		Ferns (Filicopsida)	24
position in Ricinus Cell Cultures. I. Identifica-		Porcine Leukocytes	
tion of Rhodoxanthin	50	A Granulopoiesis Inhibitor Partially Purified	
Plastid Differentiation		from Large-Scale Serum-Free Cultures of Por-	
Hormone Induced Changes in Carotenoid Com-		cine Leukocytes	639
position in Ricinus Cell Cultures. II. Accumula-		4-Pregnene-3-ones	
tion of Rhodoxanthin during Auxin-Controlled		Determination of 4-Pregnene-3-ones in Thymus	
Chromoplast Differentiation	753	Tissue Samples by High Performance Liquid	
Plastids		Chromatography (N)	1012
Comparison of the Polypeptide Complement of		Prochloroplast	
Different Plastid Types and Mitochondria of	759	Chloroplast Biogenesis, Its Inhibition and Modi-	
Narcissus pseudonarcissus	758	fication by New Herbicide Compounds	492
Herbicide/Quinone Binding Interactions in Pho-		Product Specificity	
tosystem II	368	Product Specificity during Incubation of Methyl	
The Effects of Bicarbonate Depletion and For-	- 00	Linoleate with Soybean Lipoxygenase-I (N)	171
mate Incubation on the Kinetics of Oxidation-		Propionibacterium acnes	
Reduction Reactions of the Photosystem II Qui-		Photoinactivation of Propionibacterium acnes by	
none Acceptor Complex	382	Near-Ultraviolet Light	300

1225

Reaction-Diffusion Systems		Rhodnius prolixus	
Impaired Diffusion Coupling-Source of Arrhyth-		Feeding and Molt Inhibition by Azadirachtins A,	
mia in Cell Systems	1170	B, and 7-Acetyl-azadirachtin A in Rhodnius pro-	1155
Reassociation		lixus Nymphs	1155
pH-Induced Inactivation of Glycerol Dehydro-	575	Rhodopseudomonas capsulata	
genase from <i>Bacillus megaterium</i>	575	Purification and Partial Characterization of the	
Insulin Binding Sites Induced in the <i>Tetrahyme</i> -		Soluble NADH Dehydrogenase from the Photo- trophic Bacterium <i>Rhodopseudomonas capsulata</i>	68
na by Rat Liver Receptor Antibody (N)	183	Light Dependent Ammonium Inhibition of Ni-	00
Receptor Recycling Unit	103	trate Assimilation in Rhodopseudomonas capsula-	
Polycation-Cell Surface Interactions and Plasma		ta AD2	85
Membrane Compartments in Mammals. Inter-		Occurrence of the Bacteriochlorophyll-Binding	
ference of Oligocation with Polycationic Con-		Polypeptides B870 α and B800-B850 α in the	
densation	767	Mutant Strains Y5 and A1a+ of Rhodopseudomo-	
Receptors		nas capsulata, which are Defective in Formation	
Dose Rate Dependence of Radiation Induced		of the Light-Harvesting Complexes B870 and	
IgG Membrane Receptor Alteration [1] (N)	1021	B800–850, Respectively	922
Redox Inactivation under Reducing Conditions		Properties of Membrane Fractions Prepared by	
Purification by Affinity Chromatography of Glu-		Chromatophore-Liposome Fusion	1112
tathione Reductase (EC 1.6.4.2) from Escherichia	000	Rhodopsin The Chromophere of the Visual Bigment in	
coli and Characterization of such Enzyme Redox-Potential	908	The Chromophore of the Visual Pigment in	196
The Influence of Amino Acid Ligands and Vita-		Some Insect Orders (N)	190
min C on the Reduction Potential of Fe(III): Po-		Hormone Induced Changes in Carotenoid Com-	
larographic and Electron Spin Resonance In-		position in <i>Ricinus</i> Cell Cultures. I. Identifica-	
vestigations	102	tion of Rhodoxanthin	50
Regulation		Ribose-5-phosphate	
Light Dependent Ammonium Inhibition of Ni-		Conformation about the Glycosidic Bond and	
trate Assimilation in Rhodopseudomonas capsula-		Susceptibility to 5'-Nucleotidase of 8-Substituted	
ta AD2	85	Analogues of 5'-GMP	55
Reproducible States of Light and Dark Adaptation		Ricinus communis	
The Sensitivity Shift Due to Light Adaptation		Hormone Induced Changes in Carotenoid Com-	
Depending on the Extracellular Calcium Ion		position in <i>Ricinus</i> Cell Cultures. I. Identifica-	50
Concentration in <i>Limulus</i> Ventral Nerve Photo-	662	tion of Rhodoxanthin	50
receptor	662	Rickets Effects of Vitamin D ₃ on in vivo Labelling of	
Titer of Juvenile Hormone III in <i>Drosophila hy-</i>		Chick Skeletal Muscle Proteins with [3H]Leucine	
dei during Metamorphosis Determined by GC-		(N)	1015
MS-MIS	1150	Root Aeration	
Resistant Mutants		Oxygen Supply of Roots by Gas Transport in Al-	
Isolation and Characterization of Tributyltin Re-		der-Trees(N)	1186
sistant Mutants of Escherichia coli	293	Ruta graveolens	
Respiratory Assay		Characterization of Volatile Constituents from	
Isolation and Respiratory Assay of Earthworm	052	Photomixotrophic Cell Suspension Cultures of	525
Body Wall Mitochondria (N)	853	Ruta graveolens	525
Properties of Membrane Fractions Prepared by		Salmonella/Microsome Test	
Chromatophore-Liposome Fusion	1112	Salmonella/Microsome Mutagenicity of 1-Nitro-	
Retinal		pyrene-2-ol, a Nitropyrene Phenol Formed in	
The Chromophore of the Visual Pigment in		the Photolysis of 1-Nitropyrene (N)	193
Some Insect Orders (N)	196	Saponins	
Retroviruses		Field Desorption and Fast Atom Bombardment	
Stimulation of Immunoreactivity against Endo-		Mass Spectrometry of Spirostanol and Furosta-	
genous Retroviruses and Protection against Leu-		nol Saponins from Paris polyphylla	201
kemia of Older AKR Mice by Treatment with		Sarcoplasmic Reticulum	
Antibodies against Retroviral Surface Compo-	1100	Electron Microscopic Evidence for the Transmem-	177
nents. Role of p15(E) Antibody (N)	1199	brane Displacement of Calcium ATPase (N)	177
Rhizobium Legume Root Response to Symbiotic Infection.		Activation Volumes of the Calcium Dependent para-Nitrophenyl Phosphate Hydrolysis of the	
Enzymes of the Peribacteroid Space	123	Sarcoplasmic Reticulum Calcium Transport En-	
Differential Synthesis of Alkaline Phosphatase in	123	zyme	282
Rhizobium Species Isolated from the Tropics .	1038	Alteration of Acylphosphate Formation of Car-	202
Rhizoctonia solani		diac Sarcoplasmic Reticulum ATPase by Calmo-	
Abscisic Acid in Phytopathogenic Fungi of the		dulin-Dependent Phosphorylation	289
Genera Botrytis, Ceratocystis, Fusarium, and		Inhibitors of Calmodulin-Dependent Phospho-	
Rhizoctonia (N)	683	rylation Simultaneously Inhibit Calcium Uptake	
Rhizome		and Calcium-Dependent ATPase Activity in	
New Cinnamoyl Esters of Quinic Acid from	1/7	Skeletal Muscle Sarcoplasmic Reticulum and	1100
Meum athamanticum (N)	167	Transiently Induce Calcium Release (N)	1189

Sarcoplasmic Reticulum ATPase		The Pheromone Receptor System of Male Eulia	
Dependence on Membrane Lipids of the Effect		ministrana L., with Notes on other Cnephasiini	0.40
of Vanadate on Calcium and ATP Binding to	1127	Moths (N)	849
Sarcoplasmic Reticulum ATPase	1137	Identification and Field Evaluation of a Sex Phe-	
Epicuticular Waxes of Seed Coats from Species		romone of the European Pine Moth (N)	1192
of the Genus Cistus L. (Cistaceae)	521	Sexual Induction	1172
Scattering Changes	321	Pheromone-Binding and Matrix-Mediated	
Light Induced Changes in the Conformation of		Events in Sexual Induction of Volvox carteri .	584
Spinach Thylakoid Membranes as Monitored by		A High Frequency Mutation Starts Sexual Re-	
90° and 180° Scattering Changes: A Compara-		production in Volvox carteri	1159
tive Investigation	1120	Silene	
Scilla maritima		O7g and D6a: Two Flavone Glycosylating Genes	
Biosynthesis of the Bufadienolide Ring of Scilli-		in Silene, which are Only Expressed in Cotyle-	
rosid in Scilla maritima	38	dons and Rosette Leaves	568
Scillirosid		Silybin Silybin	
Biosynthesis of the Bufadienolide Ring of Scilli-	20	Examination of the Structure Activity Relation-	
rosid in <i>Scilla maritima</i>	38	ship of Antihepatotoxic Natural Products (Silybin-	535
Arboxeniolide-1, a New, Naturally Occurring		Antamanide) by X-Ray Analysis	333
Xeniolide Diterpenoid from the Gorgonian Pa-		Singlet Oxygen Photodynamic Damage to Isolated Chloroplasts:	
ragorgia arborea of the Crozet Is. (S. Indian		A Possible Model for <i>in vivo</i> Effects of Photosyn-	
Ocean) (N)	1180	thetic Inhibitor Herbicides	482
Sclerotization		Red-Light Effects Sensitized by Methylene Blue	
Incorporation of Radiolabeled Tyrosine, N-Ace-		on Nitrate Reductase from Spinach (Spinacia	
tyldopamine, N- β -Alanyldopamine, and the		oleracea L.) Leaves	1079
Arylphorin Manducin into the Sclerotized Cu-		Skeletal Muscle	
ticle of Tobacco Hornworm (Manduca sexta)		Effects of Vitamin D ₃ on in vivo Labelling of	
Pupae	1066	Chick Skeletal Muscle Proteins with [³ H]Leucine	1015
SDS-PAGE		(N)	1015
Comparison of the Polypeptide Complement of		Inhibitors of Calmodulin-Dependent Phospho-	
Different Plastid Types and Mitochondria of Narcissus pseudonarcissus	758	rylation Simultaneously Inhibit Calcium Uptake and Calcium-Dependent ATPase Activity in	
Secondary Plant Product	130	Skeletal Muscle Sarcoplasmic Reticulum and	
A Convenient Synthesis of p-Hydroxy- β -[carbo-		Transiently Induce Calcium Release (N)	1189
xymethyl]-cinnamic Acid (Sphagnum Acid) (N)	311	Snails	
Sedanenolide		Chemical Defenxe of Lupins. Mollusc-Repellent	
Phthalide Derivatives from Meum athamanticum		Properties of Quinolizidine Alkaloids	553
Jacq	872	Sodium and Magnesium Ions	
Seed Coats		The Sensitivity Shift Due to Light Adaptation	
Epicuticular Waxes of Seed Coats from Species	501	Depending on the Extracellular Calcium Ion	
of the Genus Cistus L. (Cistaceae)	521	Concentration in Limulus Ventral Nerve Photo-	
Semiquinone Anion Stabilization		receptor	662
Protein Sequence Homologies between Portions of the L and M Subunits of Reaction Centers of		Solanaceae	
Rhodopseudomonas capsulata and the Q _B -Protein		New Cembranoid from Tobacco, IV	1023
of Chloroplast Thylakoid Membranes: a Pro-		Solid Phase Peptide Synthesis	
posed Relation to Quinone-Binding Sites	421	A Simple Method to Prepare Affinity Resins on	
Separation of ADP-Binding Enzymes		Cellulose Basis	1048
Preparation of an Affinity Chromatographic		Soluble NADH Dehydrogenase	
System for the Separation of ADP Binding Pro-		Purification and Partial Characterization of the	
teins	1042	Soluble NADH Dehydrogenase from the Photo-	
Sequestration		trophic Bacterium Rhodopseudomonas capsulata	68
Alkaloid Sequestration by Papaver somniferum	876	Soybean RNA Polymerase I	
Latex	870	Purification of Soybean DNA-Dependent RNA	
Inhibition by Sethoxydim of Chloroplast Biogen-		Polymerase I on a Column of Plasmid pHFK 206	(52
esis, Development and Replication in Barley		Covalently Attached to Agarose	652
Seedlings	115	Spectral Changes	
Chloroplast Biogenesis, Its Inhibition and Modi-		Temperature Induced Spectral Changes of Chlo-	605
fication by New Herbicide Compounds	492	rophyll in Micelles and Solution (N)	685
Sex-Attractant		Spermatozoid-Release	
Lamoxirene. Structural Proof of the Spermato-		Lamoxirene. Structural Proof of the Spermato-	
zoid Releasing and Attracting Pheromone of La-	(00	zoid Releasing and Attracting Pheromone of Laminariales (N)	689
minariales (N)	689		009
Specificity of Synthetic Sex-Attractants in Zy-	841	Sperimaine Bertvative	
gaena Moths (N)	041	Pistillarin, a Characteristic Metabolite of Clava- riadelphus pistillaris and Several Ramaria Spe-	
tuid Moth <i>Rhyacia baja</i> Schiff (N)	845	cies (Basidiomycetes)	10
, , , , , , , , , , , , , , , , , , ,		,	

Sphagnum Acid		Suctorian Tentacles	
A Convenient Synthesis of <i>p</i> -Hydroxy-β-[carbo-xymethyl]-cinnamic Acid (Sphagnum Acid)	311	Mode of Discharge of Haptocysts in Ephelota gemmipara (Suctoria, Ciliata)	812
Spheroplasts Phospholipids and Glycerides Composition dur-	311	Sugar Sequence Field Desorption and Fast Atom Bombardment	012
ing Spheroplasts Formation of <i>Mycobacterium</i> smegmatis ATCC 14468	962	Mass Spectrometry of Spirostanol and Furostanol Saponins from <i>Paris polyphylla</i> 1-Sulfonic Acid 8-Anilinonaphthalene	201
Radical Formation and Peroxidative Activity of Phytotoxic Diphenyl Ethers	486	Binding of the Fluorescent Dye 8-Anilinonaph- thalene 1-Sulfonic Acid to the Native and Pres- sure Dissociated β_2 -Dimer of Tryptophan Syn-	
A Nitroxide Diuron Analog as a Probe for the Mode of Action of Herbicides	342	thase from <i>Escherichia coli</i> (N) Sulfur Metabolism	1008
Spinacia Occurrence of Mercaptopyruvate Sulfotransfer-	016	Cytochromes of the Purple Sulfur Bacterium Ectothiorhodospira shaposhnikovii	894
ase Activity in Photosynthetic Organisms Red-Light Effects Sensitized by Methylene Blue on Nitrate Reductase from Spinach (Spinacia	916	Sun-Type Chloroplast Inhibition by Sethoxydim of Chloroplast Biogenesis, Development and Replication in Barley	
oleracea L.) Leaves	1079	Seedlings	115
Differences between Rat Splenic and Thymic Cells with Respect to the Effects of Ethidium Bromide on the Unsheduled DNA Synthesis (DNA Repair Synthesis) and the Nucleoid Sedi-		Mechanisms of Adriamycin-Dependent Oxygen Activation Catalyzed by NADPH-Cytochrome <i>c</i> -(Ferredoxin)-Oxidoreductase Surface Topography	261
mentation	600	Electron Microscopic Study of the Polymyxin Treated Goat Erythrocytes	776
Oxidized p-Phenylenediamine Staining of Epoxy Resin Sections (N)	835	An Adsorbent as Phytohormone Reservoir in a Plant Cell Suspension Culture	45
Step Voltage Cell Fusion by Simulated Atmospheric Dis-		Synchronization Impaired Diffusion Coupling-Source of Arrhyth-	73
charges: Further Support for the Hypothesis of Involvement of Electrofusion in Evolution	973	mia in Cell Systems	1170
Sterease Cofactor Polycation-Cell Surface Interactions and Plasma Membrane Compartments in Mammals. Inter- ference of Oligocation with Polycationic Con-		Lysine-Enhanced Threonine-Inhibition of Bacterial Aspartokinase: Concerted or Synergistic Feedback Inhibition? (N)	687
densation	767	Synthesis A Convenient Synthesis of p -Hydroxy- β -[carbo-xymethyl]-cinnamic Acid (Sphagnum Acid) (N)	311
Cyanoacrylate Inhibitors of the Hill Reaction III. Stereochemical and Electronic Aspects of Inhibitor Binding	617	Synthetic Peptides Rabbit Antipeptide Antibodies against Restricted Domains of the Histocompatibility Complex.	646
Strand Break Formation Identification of a Major Pathway of Strand		System Analysis System Analysis of the Circadian Rhythm of Eu-	040
Break Formation in Poly U Induced by OH Radicals in Presence of Oxygen (N)	315	glena gracilis, II: Masking Effects and Mutual Interactions of Light and Temperature Re-	
Streptococci Effects of Membrane-Acting Drugs and Aerobiosis on Production of Streptolysin S and Nuclease		sponses	801
in Hemolytic Streptococci	1128	Tanning Substrates	
Streptolysin S Effects of Membrane-Acting Drugs and Aerobiosis on Production of Streptolysin S and Nuclease		Incorporation of Radiolabeled Tyrosine, N-Acetyldopamine, N- β -Alanyldopamine, and the	
in Hemolytic Streptococci	1128	Arylphorin Manducin into the Sclerotized Cuticle of Tobacco Hornworm (Manduca sexta)	1066
Effects of N-Aryl-N',N'-Dialkyl-1,2-Ethanediamines on ATP Formation in Chloroplasts.		Pupae	1066
QSAR of Amine Uncouplers	107	Sulfides and β -Cyclocitral	867
Antamanide) by X-Ray Analysis	535	Photoinactivation of <i>Propionibacterium acnes</i> by Near-Ultraviolet Light	300
Distribution of the H1 Histone Subfractions in Syrian Hamster Chromatin Fractions	958	The Composition of Terpene Hydrocarbons in the Essential Oils from Leaves of Four Cistus	
8-Substituted Analogues Conformation about the Glycosidic Bond and		Species	699
Susceptibility to 5'-Nucleotidase of 8-Substituted Analogues of 5'-GMP	55	Chemosystematics of Japanese <i>Heterotropa</i> (Aristolochiaceae)	705

Herbal Insecticides II [1]. The Essential Oil from Leaves of <i>Chrysanthemum balsamita</i> L. Insectici-		Triplet States Flash Photolysis of Liposomes Containing Chlo-	
dal Activity and Composition	543	rophyll and Zeaxanthin, as a Function of Tem-	1100
Tetrahymena Insulin Binding Sites Induced in the Tetrahyme-		perature (2°-34°C)	1108
na by Rat Liver Receptor Antibody (N)	183	Differential Synthesis of Alkaline Phosphatase in	
Thermal Diffusion		Rhizobium Species Isolated from the Tropics .	1038
Thermal Diffusion as a Mechanism for Biological	(5)	Tryptophan Synthase	
Transport	656	Binding of the Fluorescent Dye 8-Anilinonaph- thalene 1-Sulfonic Acid to the Native and Pres-	
Oxygen Supply of Roots by Gas Transport in Al-		sure Dissociated β_2 -Dimer of Tryptophan Syn-	
der-Trees (N)	1186	thase from Escherichia coli (N)	1008
Threonine Inhibition Lysine-Enhanced Threonine-Inhibition of Bacte-		Tumors Thermal Diffusion as a Mechanism for Biological	
rial Aspartokinase: Concerted or Synergistic		Transport	656
Feedback Inhibition? (N)	687	Tunicamycin	
Thylakoid Phosphorylation Matribusin Position Mutanta of Chlamudoma		Glycoprotein Biosynthesis in <i>Phytophthora me-gasperma</i> f. sp. glycinea. An in vitro Study	222
Metribuzin-Resistant Mutants of Chlamydomo- nas reinhardii	437	Two-Dimensional Spectroscopy	222
Thylakoids		Two Dimensional Double-Quantum and COSY	
Uncoupling of Spinach Thylakoids by Gramine	746	Spectra of Porcine Adenylate Kinase	738
Light Induced Changes in the Conformation of		Tyrosine Determination Comparison of Different Methods for the Deter-	
Spinach Thylakoid Membranes as Monitored by 90° and 180° Scattering Changes: A Compara-		mination of Phenylalanine Hydroxylase Activity	
tive Investigation	1120	in Rat Liver and Euglena gracilis	728
Thymocytes		Tyrosine Oxidation	
Differences between Rat Splenic and Thymic		Tyrosine Oxidation by NO ₂ in Aqueous Solution.	725
Cells with Respect to the Effects of Ethidium Bromide on the Unscheduled DNA Synthesis		tion.	123
(DNA Repair Synthesis) and the Nucleoid Sedi-			
mentation	600	Umbelliferae	
Thymus Gland Determination of 4 Programs 2 ones in Thymus		New Cinnamoyl Esters of Quinic Acid from Meum athamanticum (N)	167
Determination of 4-Pregnene-3-ones in Thymus Tissue Samples by High Performance Liquid		Phthalide Derivatives from Meum athamanticum	107
Chromatography (N)	1012	Jacq	872
Tissue Culture		Uncouplers	
HPLC Analysis of Alkaloids in Extracts of Callus	680	Effect of Electron Transfer Inhibitors and Uncoupling Agents on the Chlorophyll Fluores-	
Cultures of <i>Cinchona</i> Species (N) Tortricidae	000	cence Lifetime during Slow Fluorescence Decline	
The Pheromone Receptor System of Male Eulia		in Bean Leaves and Intact Chloroplasts	93
ministrana L., with Notes on other Cnephasiini	0.40	Effects of N-Aryl-N',N'-Dialkyl-1,2-Ethanedi-	
Moths (N)	849	amines on ATP Formation in Chloroplasts. QSAR of Amine Uncouplers	107
Statistical Analysis of Quantum Bump Parame-		Increased Binding of [14C]Ioxynil in Unicellular	
ters in Limulus Ventral Photoreceptors	781	Green Algae under Anaerobiosis and by Ad-	
Triazine-Resistant Biotypes		dition of Other Phenolic Herbicides or Un-	402
Comparison of the Photosynthetic Capacity be- tween Intact Leaves of Triazine-Resistant and		couplers	746
-Susceptible Biotypes of Six Weed Species	440	Inhibition of Photosynthetic Reactions by Au-	,
Triazines		reomycin	627
The Molecular Basis of Triazine-Herbicide Re-	412		
sistance in Higher-Plant Chloroplasts Identification of the Herbicide Binding Region	412	UV-B Stress	
of the Q _B -Protein by Photoaffinity Labeling with		Effect of UV-B Radiation on Biomass Produc-	
Azidoatrazine	425	tion, Pigmentation and Protein Content of Ma-	(24
Trichoplax adhaerens		rine Diatoms	634
The Radial Polar Pattern of Differentiation in	010	ATP Synthesis Driven by a Valinomycine In-	
Trichoplax adhaerens F. E. Schulze (Placozoa) Trichothecene	818	duced K+ Diffusion Potential in Liposomes Bear-	
Miotoxin-A: A Novel Macrocyclic Trichothecene		ing Chloroplast ATP Synthase (N)	320
from the Brazilian Plant Baccharis coridifolia .	212	Vanadate Electron Microscopic Evidence for the Transmem-	
$\Delta^{7,7'(E)}$ 4,9,9'-Trihydroxy-5,5'-dimethoxy-7.0.4',8.3'-		brane Displacement of Calcium ATPase (N)	177
lignoid		Dependence on Membrane Lipids of the Effect	
Herpetol, a New Dimeric Lignoid. from Herpetospermum caudigerum Wall (N)	307	of Vanadate on Calcium and ATP Binding to	1127
Triorganotins	307	Sarcoplasmic Reticulum ATPase	1137
Isolation and Characterization of Tributyltin Re-		Metabolic Effects of Direct Current Stimulation	
sistant Mutants of Escherichia coli	293	on Cultured Vascular Smooth Muscle Cells	1141

Ventral Photoreceptor of Limulus		Whole Leaves	
Statistical Analysis of Quantum Bump Param-		Measurements of Penetration and Detoxification	
eters in <i>Limulus</i> Ventral Photoreceptors	781	of PS II Herbicides in Whole Leaves by a Fluoro-	
Vesicles		metric Method	359
Temperature Induced Spectral Changes of Chlo-		Wound Gas	
rophyll in Micelles and Solution (N)	685	Production of C ₆ -Wound Gases by Plants and	
Stimulation of Brain Synaptosome – Associated	000	the Effect on Some Phytopathogenic Fungi (N)	1003
Adenylate Cyclase by Acidic Phospholipids (N).	1196	me = meet en semt i mytelpums geme i ung. (i · ·)	1000
Vigna mungo	1170	X-Ray Diffraction	
Induced and Constitutive Isoflavonoids in <i>Pha-</i>		X-Ray Studies on Phospholipid Bilayers. III.	
seolus mungo L. Leguminosae	888	Structure and Morphology of L- α -Dilaurylphos-	
Visible Absorption Spectra	000	phatidylethanolamine (DLPE)	141
On the Reactivity of Native Phytochrome	742	X-ray Structure	141
Vitamin D ₃	142	The Crystal Structure of Anhydrous Xanthosine	
Effects of Vitamin D ₃ on in vivo Labelling of		Displays Intramolecular O(2')H O(3') Hydro-	
Chick Skeletal Muscle Proteins with [³ H]Leucine			720
(N)	1015	gen Bond	720
Volatile Oils	1013	Xanthopsin The Chromophere of the Visual Bigment in	
Characterization of Volatile Constituents from		The Chromophore of the Visual Pigment in	106
		Some Insect Orders (N)	196
Photomixotrophic Cell Suspension Cultures of	525	Xanthosine The Country Structure of Archydrous Youthesine	
Ruta graveolens	323	The Crystal Structure of Anhydrous Xanthosine	
		Displays Intramolecular O(2')H O(3') Hydro-	720
Accumulation of Volatile Flavour Compounds in	1020	gen Bond	720
Liquid Cultures of Kluyveromyces lactis Strains	1030	Xeniolide Diterpenoids	
Voltage Clamp		Arboxeniolide-1, a New, Naturally Occurring	
Influence of the Membrane Potential on the In-		Xeniolide Diterpenoid from the Gorgonian Pa-	
tracellular Light Induced Ca ²⁺ -Concentration		ragorgia arborea of the Crozet Is. (S. Indian	1100
Change of the Limulus Ventral Photoreceptor		Ocean) (N)	1180
Monitored by Arsenazo III under Voltage Clamp	007	W	
Conditions.	986	Yeast	
Volvox carteri		Accumulation of Volatile Flavour Compounds in	1020
Pheromone-Binding and Matrix-Mediated	• • •	Liquid Cultures of Kluyveromyces lactis Strains	1030
Events in Sexual Induction of Volvox carteri.	584	7	
A High Frequency Mutation Starts Sexual Re-		Zea mays	
production in Volvox carteri	1159	Functional and Regulatory Properties of H ⁺	
		Pumps at the Tonoplast and Plasma Membranes	
*** 0"		of Zea mays Coleoptiles	927
Wheat Oligonucleotides		Zygaena	
Aurintricarboxylic Acid and Polynucleotides as		Specificity of Synthetic Sex-Attractants in Zy-	0.45
Novel Inhibitors of Ribonucleotide Reductases	276	gaena Moths (N)	841