

BIOCHEMICAL PHARMACOLOGY

SUBJECT INDEX FOR VOLUME 27

1978

PREPARED BY W. COCKS

- Acebutolol,
 effect on ATPase in synaptosomes, 2015
- Acetaldehyde,
 effect on stimulated lipolysis and
 cyclic AMP formation in isolated
 fat cells, 2559
- Acetaminophen,
 effect on degradation of synovial
 fluid, 535
- Acetanilide,
 hydroxylation by liver microsomes,
 effect of diethyl maleate, 1098
- Acetate,
 disappearance from blood, effect of
 ethanol, 128
- Acetoacetyl-CoA thiolase,
 in liver mitochondria, effect of
 pent-4-enoic acid, 2879
- 2-Acetylaminofluorene,
 inducible aldehyde dehydrogenase in
 hepatomas, immunochemical
 identity, 2463
 toxicity in fibroblast/hepatocyte
 test system, 1849
- 2-Acetylaminofluorene metabolites,
 mutagenicity in Ames-Salmonella
 test system, 2399
- 4-Acetylaminofluorene,
 toxicity in fibroblast/hepatocyte
 test system, 1849
- Acetylcarnitine,
 in liver, effect of di-(2-ethyl-
 hexyl)phthalate, 2683
- Acetylcholine,
 in brain, effect of DDT, cismethrin
 and decamethrin, 1703
 halogenated, inhibition of human
 placental choline acetyltrans-
 ferase, 1331
 in heart, regional distribution,
 2409
 pharmacological augmentation in
 kainate-lesioned rat striatum,
 2962
 receptor agonists and antagonists,
 effect on cyclic nucleotides in
 striatum and cerebellum, 2333
 sensitivity of heart, effect of
 lysolecithin and lecithin in
 serum, 2793
 synthesis in placenta, 1251
- Acetylcholinesterase,
 association with aryl acylamidase
 in brain, 891

Acetylcholinesterase(contd.)

in brain,
 goldfish and rat, kinetic analysis
 2693
 inhibition by physostigmine,
 relationship with systemic effects
 203
 effect of PNP-containing
 insecticides, 2049
 in heart, regional distribution, 2409
 inhibition by phosphorylated oximes,
 857
 effects of 1,1'-oxydimethylene bis
 (4-tert-butylpyridinium chloride)
 and decamethonium on reactivation
 by oximes, 757
 reactivation by 1-alkyl-2-hydroxy-
 iminomethyl-pyridinium salts,
 2229, 2911
N-Acetyl glucosaminidase,
 release from liver lysosomes, effect
 of carbenoxolone, 2461
 Acetyl procainamide ethobromide,
 transport by hepatocytes, effect of
 bile salts, 397
 Acetylsalicylic acid,
 effect on biosynthesis of gastric
 mucins, 2775
 effect on DNA and RNA in inflammations,
 353
 effect on glycoprotein biosynthesis
 in gastric mucosa in relation to
 ulcerogenic activity, 877
 inhibition of platelet aggregation
 and release, effect of
 arachidonic acid, 2131
 inhibition of superoxide anion

Acetylsalicylic acid(contd.)

production, 777
 inhibition of tromboxane B₂ and
 6-ketoprostaglandin F_{1α} formation
 in carrageenin granuloma, 109
 interaction with human serum albumin
 and myeloma immunoglobulin, 1043
 effect on prostaglandin biosynthesis
 in brain, 213
N-Acetyltransferase,
 in pineal gland, RNA synthesis
 during induction of, 551, 557
 Acid phosphatase,
 in muscle during ischaemia, effect
 of Mercurascan, 359
 release from liver lysosomes,
 effect of carbenoxolone, 2461
 role in leptophos toxicity in hens,
 2055
 in tumour lysosomes, effect of
 antitumour agents, 1381
 Actinomycin D,
 liposome-encapsulated, pharmaco-
 kinetics, 21
 effect on plasma disposition of
 antipyrine and biliary excretion
 of phenolphthalein, 1413
 effect on RNA synthesis and
 induction of N-acetyltransferase
 in pineal gland, 557
 Acyl-CoA hydrolase,
 in liver mitochondria, effect of
 hypoglycin metabolites and
 pent-4-enoic acid, 2879, 2891
 Acyltransferase,
 specific inhibition by Δ^9 -tetra-
 hydrocannabinol, 329

- Adenine,
 uptake and release in cultured heart cells, effect of allopurinol, 1297
- Adenosine,
 effect on glucose and lipid metabolism and hepatic blood flow, 1341
 inhibition of Crithidia fasciculata, 1479
 inhibition of platelet aggregation and release, effect of arachidonic acid, 2131
 interaction with catecholamines on ventricular cyclic AMP accumulation, 187
 effect on porphyrin biosynthesis, 2439
 regulation of thymocyte cyclic AMP, 2675
 uptake in human erythrocytes, inhibition by adenosine-5'-carboxamides 2191
- Adenosine analogues,
 inhibition of Crithidia fasciculata, 1479
 inhibition of lymphocyte-mediated cytotoxicity, 1487
- Adenosine-5'-carboxamides,
 inhibition of adenosine uptake by human erythrocytes, 2191
- Adenosine deaminase,
 interactions with deoxycoformycin, 2289
 in kidney, effect of methylxanthines and other drugs, 2845
 in primary rabbit kidney cells and human skin fibroblasts, 1421
- Adenosine diphosphate,
 entry into liver mitochondria, inhibition in endotoxic shock, 2931
 induced platelet aggregation, effect of adenosine-3',5'-diphosphate and coenzyme A, 1193
- Adenosine-3',5'-diphosphate,
 effect on platelet function, 1193
- Adenosine diphosphate reductase,
 in cultured human cells, 2297
- Adenosine kinase,
 inosine analogues as substrates for, 83
- Adenosine-3',5'-monophosphate,
 in accessory sex organs, effect of androgens on isoproterenol-induced increase, 465
 accumulation in brain, effect of vasoactive intestinal peptide, 2209
 accumulation in striatum, effect of catechols, 2919
 accumulation in ventricular myocardium, interaction between adenosine and catecholamines, 187
 binding proteins and protein kinases in Walker carcinoma cells resistant to alkylating agents, 947
 in brain, effect of DDT, cismethrin and decamethrin, 1703
 effect of cardenolide analogues on hydrolysis by heart and brain, 2769
 in chick embryo liver cells, effect of modulation on drug-induced

- Adenosine-3',5'-monophosphate(contd.)
- porphyrin biosynthesis, 2439
 - correlation between accumulation of and relaxation in tracheal smooth muscle, 254
 - in cytotoxic lymphocytes, effect of adenosine analogues, 1487, 1731
 - formation in fat cells,
 - effect of acetaldehyde, 2559
 - effect of p-myristyloxyl- α -methylcinnamic acid, 2637
 - effect of FPL 55712 on hydrolysis of, 2065
 - in heart, effect of α - and β -stimulation, 2901
 - in HeLa and Chinese hamster cells, effect of chlorambucil, 604
 - hydrolysing enzyme in lung, effect of cyclic nucleotides, 89
 - hydrolysis by rabbit kidney, effect of theophylline and other drugs, 2845
 - in lung,
 - effect of butylated hydroxytoluene, 1671
 - effect of hypoxia, 911
 - mediated hypertrophy as a prerequisite of drug-specific enzyme induction, 219
 - metabolism in heart of normotensive and hypertensive rats, 1179
 - modulation of β -adrenergic receptor in iris, 953
 - neurotransmitter modulation of metabolism in cultured neuronal cells, 1167, 1173
 - role in α -agonist induced increase
- Adenosine-3',5'-monophosphate(contd.)
- in hepatic glycogenolysis, 1315
 - role in choleresis in dogs and rats, 2413
 - role of cyclic AMP-dependent protein kinase as the transducer of action, 1801
 - role in response of toad skin to angiotensin II, 611
 - in striatum and cerebellum, effects of dopamine and acetylcholine receptor agonists and antagonists, 2333
 - in thymocytes, stimulation by endogenous adenosine, 2675
- Adenosine monophosphate deaminase, inhibition by zinc ions, 2651
- Adenosine triphosphatase, in liver plasma membrane, inhibition by RMI 12330A, 641
- in muscle during ischaemia, effect of Mercurascan, 359
- Adenosine triphosphatase, Ca^{2+} - stimulated, in adrenal chromaffin cell membrane, effects of chlorpromazine and amphetamine, 114
- in heart sarcolemma, effect of antiarrhythmic agents, 1281
- effect of divalent cations, 2605
- in intestinal brush border membrane, effect of deoxycholate, 1961
- in mast cells and macrophages in relation to histamine release, 1561
- Adenosine triphosphatase, Mg^{2+} -

Adenosine triphosphatase, Mg^{2+} -
stimulated,

in brain, effect of CNS drugs,
132, 1049

in heart mitochondria, effect of
general anaesthetics, 2835

in heart sarcolemma,
effect of antiarrhythmic agents,
1281
effect of divalent cations, 2605

in mast cells and macrophages in
relation to histamine release,
1561

Adenosine triphosphatase, Na^+, K^+ -
stimulated,

in brain,
effect of CNS drugs, 132, 1049
effect of ethanol on kinetics
with alkali ions, 1353
effects of ethanol withdrawal,
stress and amphetamine, 1139
inhibition by phenoxybenzamine
in vitro and in vivo, 2109
inhibition by sanguinarine, 2555
modulation by adrenergic
compounds, 2015

in heart sarcolemma,
effect of antiarrhythmic drugs,
1281
effect of divalent cations, 2605
in kidney, effect of phospholipase A
treatment on reactions and
ouabain binding, 225
role in effect of chlorpromazine on
intestinal transport, 2781

Adenosine triphosphate,
effect of altered production and

Adenosine triphosphate(contd.)

utilization on catecholamine
release, 511

biosynthesis in vas deferens, 45

in brain, effects of ethanol and
thiamine deficiency, 1259

in heart muscle, effect of clofibr-
ate, 244

in human fibroblasts, effect of
adrenergic stimulants, 373

in skeletal muscle,
effect of clofibrate, 244
effect of methylxanthines and
potassium, 2965

synthesis in sarcoplasmic reticulum,
effect of quinine, 539

S-Adenosylhomocysteine analogues,
inhibition of methyltransferases,
1981

S-Adenosyl-L-methionine,
hepatic levels in rats during
stress, 2649
protective role on liver injury
induced by D-galactosamine, 1431
uptake by rabbit erythrocytes, 1427

S-Adenosylmethionine decarboxylase,
in bone marrow and spleen cells,
effect of methylglyoxal bis
(guanyldrazone), 1555
inhibition by 1,1'-[(methylethaned-
ylidene)-dinitrilo]-bis-(3-
aminoguanidine) and 1,1'-[(methyl
ethanedylidene)-dinitrilo]-
diguanidine, 1625

S-Adenosylmethionine-dependent
methyltransferases,
inhibition by S-adenosylhomocysteine

S-Adenosylmethionine-dependent

methyltransferases(contd.)

analogues, 1981

Adenylate cyclase,

in brain, effect of vasoactive
intestinal peptide, 2209

dopamine-sensitive,

in caudate nucleus, effect of
aporphines and protoberberines,
1113in striatum, effects of 2-amino-
tetralin derivatives, 1417subcellular distribution in
retina, 2281in erythrocytes, β -receptor

activation, 1445, 1455

in heart of normotensive and

hypertensive rats, 1179, 1967

in heart sarcolemma,

effect of antiarrhythmic agents,
1281

effect of divalent cations, 2605

mode of coupling to hormone receptors, Adrenal,

modulation by GTP, 2083

PGE₁-sensitive in cultured neuronal

cells, neurotransmitter

modulation, 1167, 1173

in rat tissues, inhibition by

RMI 12330A, 641

in striatum, β -adrenergic receptor-

sensitive, 2919

in thyroid, effect of thionamides,

487

Adipocytes,

lipolytic activity of isoproterenol,
salbutamol and tazolol, 1885

peroxidative metabolism in response

Adipocytes(contd.)

to insulin and sulfhydryl
reagents, 2589

Adipose tissue,

esterification process and
cycloheximide, 1577

interactions of anti-inflammatory

steroids with prostaglandin
system, 1409effect of Δ^9 -tetrahydrocannabinol,
407

Adjuvant arthritis,

effect on lipid peroxidation in rat
liver, spleen and lungs, 531

role of prostaglandins, 1611

Adjuvant disease,

effect of fenclorac and pheno-
barbital on rat hepatic micro-
somal mono-oxygenases, 1771sex-related differences in
impairment of hepatic drug-
metabolizing enzymes, 1379

Adrenal,

angiotensin III receptors in, 1

calcium uptake by chromaffin cell

membrane, effects of chlorprom-
azine and amphetamine, 114

Adrenaline,

effect on ATP in fibroblasts, 373

effect on ATPase in synaptosomes,
2015catabolism in control, sensitized
and anaphylactic guinea pig

lung slices, 117

disposition in rabbit fetus, effect
of promethazine, 445

mediated accumulation of ventricular

Adrenaline(contd.)

- cyclic AMP, effect of adenosine, 187
- metabolism in rabbit fetal tissues, 451
- effect on prostaglandin biosynthesis in brain, 213
- radioenzymatic assay, 1519
- α - and β -Adrenergic agents,
 - effect on cyclic AMP formation in ventricular myocardium, 187
- α -Adrenergic agonist,
 - induced increase in hepatic glycogenolysis, 1315
- β -Adrenergic agonist,
 - procaterol, metabolic responses in rats, 2531
 - effect on thromboxane A₂ formation in platelets, 1603
- Adrenergic analogues,
 - binding to β -adrenergic receptor and inhibition of adenylate cyclase, 1455
- α -Adrenergic antagonists,
 - effect on lipolysis in isolated fat cells, 2305
- β -Adrenergic antagonists,
 - antibodies of, 1527
- Adrenergic compounds,
 - interaction with brain membrane constituents, 2015
- Adrenergic nerve terminals,
 - reversal of bretylium blockade by tetraethylammonium, 1512
- α -Adrenergic receptors,
 - pre- and post-synaptic blocking activity of benzodioxanes, 1879
- α -Adrenergic receptors,
 - in rabbit iris, 953
- β -Adrenergic receptors,
 - desmethylinipramine-induced decrease in binding in brain, 2179
 - erythrocytes, activation of adenylate cyclase, 1445, 1455
 - in rabbit iris, 953
 - sensitive cyclic AMP accumulation in striatum, 2919
- α -Adrenergic stimulants,
 - effect on glycogenolysis and lactate production in heart, 2901
- β -Adrenergic stimulants,
 - fibroblast susceptibility, 373
 - effect on glycogenolysis and lactate production in heart, 2901
 - inhibition of hypoxia-induced pulmonary vasoconstriction, role of cyclic GMP, 911
- Adriamycin,
 - effect on calcium exchangeability in cardiac muscle, 985
 - carrier-mediated transport in Ehrlich ascites tumour cells, 1221
 - inhibition of metmyoglobin reductase from beef heart, 2079
 - uptake and retention by anthra-cycline resistant P388 leukemia cells, 2123
- Adriamycin, reductase,
 - in liver, 2713
- Affective disorders,
 - revised catecholamine hypothesis, 257
 - role of phenylethylamine, 1707

- Aflatoxin B₁,
inhibition of avian hepatic
mitochondria, 547
- Aflatoxin B₁, G₁, M₁,
metabolism in the rabbit, effect of
vitamin A deficiency and excess,
833
- Age,
effect on antigen-induced mediator
release from lung, 2119
- Albumin,
binding sites for diazepam, salicylic
acid and warfarin, effect of
liver cirrhosis, 2729
- bovine serum, inhibition of denatur-
ation by D-penicillamine disul-
phide-copper mixture, 469
- effect of concentration on binding
of phenytoin and L-tryptophan,
937
- effect on ethoxyresorufin O-deethyl-
ation and sulphate conjugation,
1533
- human serum,
benzodiazepin binding, 2787
- chloramphenicol binding, 1717
- cooperativity of warfarin binding
induced by free fatty acid anion,
739
- gliflumide binding, 651
- effect of heavy metals on
warfarin interaction, 2957
- interaction with acetylsalicylic
acid, 1043
- effect on quinidine binding in
sera, 871
- in plasma, effect of clofibrate, 125
- Albumin-drug interactions,
microcalorimetric investigations,
1401
- Alcohol dehydrogenase,
in liver,
effect of early exposure to
ethanol, 2755
- inhibition by hexachlorophene,
2947
- substrate specificity with diols,
1296
- Aldehyde dehydrogenase,
immunochemical identity of 2,3,7,8-
tetrachlorodibenzo-p-dioxan
inducible normal liver and 2-
acetylaminofluorene inducible
hepatoma isoenzymes, 2463
- in liver, induction of, 2343
- Aldehyde metabolizing enzymes,
interference with diamine oxidase
assay, 1159
- Aldehyde oxidase,
relationship with xanthine oxidase,
2763
- Alkaline phosphatase,
in HeLa cells exposed to 5-iodo-2'-
deoxyuridine, 431
- Alkanols,
partition coefficients in lipid
bilayer/water, 1294
- 1-Alkyl-2-hydroxyiminomethyl-pyridin-
ium salts,
reactivation of acetylcholinesterase
229, 2911
- Allergic response,
effect of FPL 55712 on cyclic
nucleotide phosphodiesterase, 2065

- Allopurinol,
effects on purine metabolism in
cultured heart cells, 1297
- Alloxan,
inhibition of glucose-induced insulin
release in pancreatic islets,
effect of ethanol and *n*-butanol,
1749
effect on porphyrin biosynthesis,
2439
- Allylglycine,
effect on GABA synthesis in vivo, 1109
effect on glutamate decarboxylase
and monoamines in brain, 475
induced seizures, role of 2-keto-4-
pentenoic acid, 1471
- Allylisopropylacetamide,
induced porphyrin biosynthesis,
effect of modulation of intra-
cellular cyclic AMP, 2439
treated rats, antiporphyrin activity
of theophylline, 1729
- Alprenolol,
production of antibodies, 1527
- α -Amanitin,
effect on RNA synthesis and induction
of *N*-acetyltransferase in pineal
gland, 557
- Amidephrine,
induced increase in hepatic
glycogenolysis, 1315
- Amidines,
complement inhibition in vitro and
in vivo, 1873
- Amikacin,
uptake and subcellular localization
in fibroblasts, 415
- Amine oxidase,
in liver microsomes, sex differences
developmental aspects, 601
- Amines,
trace, function in neurotransmission
621
- 4-Aminobenzamidine,
complement inhibition in vivo, 1873
- γ -Aminobutyric acid,
effects of allylglycine on
synthesis in vivo, 1109
in brain,
effect of aminooxyacetic acid on
convulsion threshold, 103
effect of amphetamine, 1853
barbiturate-dependent rats, 1955
effect of 4-deoxypyridoxine and
allylglycine, 475
effects of ethanol and thiamine
deficiency, 1259
ethanolamine-*O*-sulphate induced
elevation, effect on brain
amines, 1827
effect of glycine, 1913
changes in cerebral metabolism
prior to convulsions induced by
3-mercaptopropionate, 246
2-pyrrolidinone as a cyclization
product in brain, 2061
in striatum, kainate-lesioned,
effects of choline chloride and
physostigmine, 2962
- γ -Aminobutyric acid aminotransferase,
in brain, effect of aminooxyacetic
acid, 103
- 6- and 2-Aminochrysene,
toxicity in fibroblast/hepatocyte

- 6- and 2-Aminochrysene(contd.)
test system, 1849
- 3-Amino-1,5-dihydro-5-methyl-1,4,5,6,8
pentaazaacenaphthylene,
biochemical properties, 233
- Aminodioxan,
effect on lysosomes in tumours, 1381
- Aminoglycoside antibiotics,
uptake and intracellular localization
in fibroblasts, 415
- Aminoguanidine,
effect on histamine metabolism in
rat lung, 820
- α -Aminoisobutyric acid,
uptake into placenta, effect of
cholinergic drugs, 285
- 5-Aminolevulinic acid synthetase,
in liver,
inhibition by thioacetamide and
thioacetamide-S-oxide, 2095
effect of theophylline, 1729
- Aminooxyacetic acid,
biochemical effects, anticonvulsant
action and toxicity in mice, 103
effect on diazepam binding in brain,
2745
- Aminophylline,
effect on cyclic AMP in liver and
on bile flow, 2413
- Amino-1,3-propandiol,
effect on lysosomes in tumours, 1381
- Aminopyrine,
metabolism by liver microsomes,
effect of cirrhosis, 2577
pituitary involvement, 1125
effect of 6-sulfanilamidoindazole
induced arthritis, 2395
- Aminopyrine demethylase,
in liver microsomes,
NADPH kinetics, 965, 969, 979
sex-related differences in
adjuvant disease, 1379
- 5-Amino-1- β -D-ribofuranosylimidazole-
4-carboxamide,
and analogues, metabolism to 5'-
triphosphates in human blood and
L5178Y cells, 709
- 2-Aminotetralin derivatives,
effects on adenylate cyclase and
the neuroleptic receptor, 1417
- Amiodarone,
induced lipidosis, 1103
- Amitriptyline,
effect on ATPase in brain cortex,
132
effect on ATPases in brain regions,
1049
- Amnesia,
action of neurohypophyseal
principles, 1793
- Amobarbital,
effect on NADH fluorescence, heart
rate and left ventricular
pressure, 1510
- Amphetamine,
aromatic hydroxylation with rat
liver microsomes, perfused liver
and isolated hepatocytes, 2525
association with 6-methylpurine in
aqueous solution, 595
effect on ATPases in brain, 132,
1049, 1139
effect on calcium uptake by adrenal
chromaffin cell membrane, 114

Amphetamine(contd.)

effect on GABA in brain, 1853
 induced release of amines from brain, 511
 effect of metabolic inhibitors, 511
 effect on lipid biosynthesis and
 absorption, 1987
 metabolism by rat brain tissue
in vitro and in vivo, 343
 effect on 3-methoxy-4-hydroxyphenyl-
 glycol sulfate in brain regions,
 1774
 effect on phenylethylamine in brain,
 1707
 effect on substance P in rat striatum,
 839
 effect on synaptosomal monoamine
 uptake, 1843
 Amphiphilic cationic drugs,
 induced lipidosis, 1103
 Anaesthetics, general,
 effect on lipid-protein interactions
 and ATPase in mitochondria, 2835
 Anaesthetics, local,
 affinity for muscarinic receptor,
 2039
 inhibition of phagocytosis in
 peritoneal macrophages, 2447
 Anaphylaxis,
 effect on catecholamine catabolism
 in lung, 117
 Androgens,
 effect on bovine pancreatic RNase,
 1831
 effect on isoproterenol-induced
 increases in mouse accessory sex
 organ cyclic AMP, 465
 role in estrogen-induced stimulation

Androgen(contd.)

of vitamin D production, 2765
 5 β -Androstane-3 α ,17 β -diol,
 substrate for rabbit liver 3-hydroxy
 hexobarbital dehydrogenase, 989
 Angiotensin,
 effects on brain receptors, 2379
 hydrolysis by plasma kininase II
 and subunits, 1651
 Angiotensin II,
 binding to isolated rat renal
 glomeruli, Ca²⁺ and Mg²⁺
 dependence, 517
 response of toad skin, role of
 cyclic AMP and angiotensin III,
 611
 Angiotensin III,
 formation from des-1-aspartic acid angiotensin
 I in vivo and in vitro, 2871
 role in response of toad skin to
 angiotensin II, 611
 Angiotensin converting enzyme,
 in human placenta, 2829
 Angiotensin receptors, 1
 Angiotensinogen,
 in brain, 2379
 Aniline,
 hydroxylation by liver microsomes,
 effect of diethyl maleate, 1098
 effect on oxygen uptake and
 superoxide anion production by
 liver microsomes, 355
 Aniline hydroxylase,
 in liver microsomes,
 effect of indomethacin, 1977
 effect of prolonged phenobarb-
 itone treatment, 2357

- Aniline hydroxylase,
in liver microsomes (contd.)
sex-related differences in
adjuvant disease, 1379
effect of thyroxine, 2027
- Anthracycline antibiotic carbonyl
reductases,
in liver, 2713
- Anthracyclines,
resistant sublines of P388 leukemia,
uptake of adriamycin and
daunorubicin, 2123
transport in Ehrlich ascites tumour
cells, 1211
- Antiarrhythmic agents,
actions on heart sarcolemma, 1281
- Anti-cancer drugs,
inhibition of histamine N-methyl-
transferase, 1507
effect on plasma disposition of
antipyrine and biliary excretion
of phenolphthalein, 1413
- Anticholinesterase,
activity of carbaryl in fetal and
maternal organs, 2647
- Anticoagulant drugs,
effect of warfarin on phylloquinone
metabolism in man, 273
- Antidepressant drugs,
mode of action, 257
- Antidiuretic hormone,
radioimmunoassay, 1009
- Antigen,
induced histamine release, 497
- Antigen induced mediator release,
effect of age, 2119
- Anti-IgE,
- Anti-IgE,
induced histamine release, 497
- Anti-inflammatory drugs,
binding to glucocorticoid receptors
in vitro, 1187
control of chronic inflammation, 1611
ethyl esters of straight chain
fatty acids, 832
effect of extracellular pH on
biodistribution and pharmacolog-
ical effects, 525
effect on glycoprotein biosynthesis
in gastric mucosa in vivo, 877
effect on hepatic microsomal mono-
oxygenases in phenobarbital-
treated adjuvant diseased rats,
1771
inhibition of platelet aggregation
and release, effects of
arachidonic acid, 2131
inhibition of superoxide anion
production, 777
inhibition of thromboxane B₂ and
6-ketoprostaglandin F_{1α}
formation in carrageenin
granuloma, 109
effects on methemoglobin reductase,
943
effect on synovial fluid degradation
535
- Anti-inflammatory steroids,
interaction with prostaglandin
system in adipose tissue, 1409
- Antipyrine,
plasma disposition, effect of
anticancer drugs, 1413
- Antipyrine,

- Antipyrine,
 effect on liver blood flow, 2617
- Anti-rheumatic drugs,
 effect on DNA and RNA in inflammations, 353
- Anti-tumour drugs,
 liposone-encapsulated, pharmacokinetics, 21
- Aorta,
 cultured endothelial cells,
 monoamine oxidase forms in, 2371
- AP 10,
 inhibition of heart and brain phosphodiesterase, 2769
- Apomorphine,
 antiepileptic action and effect on monoamine metabolism, 2821
 effect on cyclic nucleotides in striatum and cerebellum, 2333
 effect on prostaglandin biosynthesis in brain, 213
- Aporphines,
 effect on adenylate cyclase in caudate nucleus, 1113
- Aprotinin,
 soluble dextran complex of, 173
- 9- α -D-Arabino-furanosyladenine,
 effect on nucleic acid metabolism in L5178Y cells, 1659
- Arabinosylcytosine - 3-deazauridine combinations,
 cytotoxicity, 181
- Arachidonic acid,
 effect of β -adrenergic agonists on thromboxane A₂ formation in platelets, 1603
 formation of thromboxane B₂ and
- Arachidonic acid(contd.)
 6-ketoprostaglandin F_{1 α} in carrageenin granuloma, 109
 incorporation into prostaglandins in small intestine, inhibition by SL-573, 723
 induced hypotension, haptoglobin plasma level in the rabbit, 613
 effect on inhibitors of human platelet release reaction, 2131
 pathways of release, effects of anti-inflammatory drugs, 1409
 prostaglandin biosynthesis, 1515
 release from HeLa cells by cannabinoids, 1275
- Arginine,
 incorporation into liver proteins, effect of ethanol, 457
- L-Aromatic amino acid decarboxylase,
 decarboxylation of L-threo-3,4-dihydroxyphenylserine, 1081
 importance in catabolism of tryptophan, 763
 inhibition by tryptophan analogues, 1289
- Arthritis,
 6-sulfonanilamidoindazole induced, impaired metabolic handling of drugs, 2395
- Aryl acylamidase,
 in monkey brain and liver, 891
- Arylamides,
 microsomal metabolism, 1581
- Aryl hydrocarbon hydroxylase,
 analysis of assay, 2321
 induction in mouse strains and in cell culture, association with

- Aryl hydrocarbon hydroxylase(contd.)
 hemopexin, 1665
 in intestine,
 effect of dietary cholesterol,
 1095
 effect of dietary fiber on effect
 of benzo(a)pyrene, 1393
 in liver, lung and kidney, induction
 by 3-methylcholanthrene, 2537
 in liver microsomes,
 differences between hydroperoxide-
 dependent and NADPH-dependent
 systems, 2376
 inhibition by ellipticines, 1203
 time course of induction, 2103
 in liver nuclei, time course of
 induction, 2103
 in mammary tissue during development,
 2968
 in RPMI-1788 cells, inducibility,
 2659
 2-Aryl-1,3-indandiones,
 effects on reduction of 2,6-dichloro-
 phenol indophenol by methemo-
 globin reductase, 943
 Aryl sulphatase,
 in intestine, effect of dextran
 sulphates, 1931
 L-Asparaginase,
E.coli, interaction with maleimide,
 824
 L-Asparagine,
 effect of maleimide on metabolism
in vitro and in vivo, 151
 Aspartate,
 in brain of barbiturate-dependent
 rats, 1955
 Asthma,
 FPL 55712 in therapy of, 2065
 Astrocytes,
 effect of phenobarbital on
 respiration, 903
 Atropine,
 effect on α -aminoisobutyric acid
 uptake by placenta, 285
 antioxotremorine activity, 1117
 effect on biosynthesis of gastric
 mucins, 2775
 Audiogenic seizures,
 protection with dopamine agonists
 and effect on monoamine
 metabolism, 2821
 Avoidance behaviour,
 involvement of neurohypophyseal
 hormones, 1793
 AY9944,
 plus zuclophene and Triparanol,
 effect on sterol biosynthesis in
 brain, 1637
 5-Azacytidine,
 cytostatic action, phosphorylation
 and deamination in HeLa cells,
 907
 effect on RNA and DNA synthesis in
 normal and tumour tissue, 745
 8-Aza-6-thiainosine,
 as substrate for adenosine kinase,
 83
 5-Aziridinyl-2,4-dinitrobenzamide,
 resistant Walker carcinoma cells,
 cyclic nucleotide metabolism in,
 947

- Bamethan,
effect on enzyme activities in brain
cortex subfractions, 2278
- Barbital sodium,
dependent rats, taurine in brain, 1955
- Barbituric acid,
and derivatives, inhibition of
enzymes in brain involved in
pyrimidine synthesis, 655
- Bemegride,
effect on pyrimidine ribotide
synthesis in brain, 655
- Benoxaprofen,
plasma protein binding, 887
- Benserazide,
effect on tryptophan catabolism, 763
- Benz[a]anthracene,
time course of induction of aryl
hydrocarbon hydroxylase in liver
nuclei and microsomes, 2103
- Benz[a]anthracene 5,6-oxide,
specificity of skin epoxide
hydratase, 17
- Benzilic acid amino esters,
antimuscarinic activity in vivo and
in vitro, 1117
- Benzimidazoles,
halogenated ribosides, effect on
cells and viruses, 2475
- Benzodiazepine,
binding in brain, effect of
GABAergic drugs, 2745
binding to human serum albumin,
microcalorimetric studies, 2787
- Benzodioxanes,
pre- and post-synaptic alpha
blocking activity, 1879
- Benzomorphan,
lacking an oxygen atom, opoid
activity, 1033
- Benzophenanthridines,
effect on Na^+, K^+ -ATPase in brain,
2555
- Benzo(a)pyrene,
effect on aryl hydrocarbon
hydroxylase in intestine,
influence of dietary fiber, 1393
effect on glutathione S-transferase
in liver, intestine and kidney,
1284
hydroxylation in liver microsomes,
inhibition by ellipticines, 1203
pituitary involvement, 1125
inhibition of mutagenicity by
ellipticines, 1203
metabolism and excretion in rat
hepatocytes, 693
metabolism in mammary tissue, 2968
- Benzo(a)pyrene hydroxylase,
in liver microsomes, effect of
thyroxine, 2027
- Benzo(a)pyrene 4,5-oxide,
specificity of skin epoxide
hydratase, 17
- Benzphetamine,
N-demethylation by liver microsomes,
effect of diethylmaleate, 1098
- Benztropine,
effect on dopamine accumulation by
striatal synaptosomes, 1063
- Benzydamine,
inhibition of superoxide anion
production, 777
- Benzylamine oxidase,

- Benzylamine oxidase,
in human and rat tissues, 1857
- Betamethasone,
effect on prostaglandins in adipose
tissue, 1409
- Bicyclo-octanes,
inhibition of monoamine uptake into
synaptosomes, 2907
- Bile duct ligation,
qualitative alteration in liver
cytochrome P-450, 29
- Bile flow,
role of cyclic AMP, 2413
- Bile salts,
effect on drug transport in isolated
hepatocytes, 397
- Bilirubin,
effect on fatty acid uptake by
perfused rat liver, 897
- Biphenyl,
4- and 2- hydroxylation in liver
microsomes, pituitary involvement,
1125
metabolism in isolated hepatocytes,
1899
- Biphenyl 4-hydroxylase,
in liver microsomes, effect of
prolonged phenobarbitone treatment, Bone,
2357
- Birds,
aflatoxin inhibition of hepatic
mitochondria, 547
- 1,3-Bis(2-chloroethyl)-1-nitrosourea,
role of isocyanates in the action of,
1359
- Bis(4-cyanophenyl)phosphate,
enzymatic hydrolysis by rat tissues,
- Bis(4-cyanophenyl)phosphate(contd.)
733
- Bis-fluoroethyl nitrosourea,
formation of fluoroethylguanosine,
antitumour effect, 2391
- Bis-(p-nitrophenyl)phosphate,
effect on elimination of hexobendine,
2269
enzymatic hydrolysis by rat tissues,
733
effect on porphyrin-inducing activ-
ity of aliphatic mono- and
diesters, 2431
- Bleomycin,
effect on hyaluronic acid synthetase
in cultured fibroblasts, 1551
effect on lung transglutaminase, 1211
- Blood flow,
liver,
effect of adenosine, 1341
effect of microsomal enzyme
inducing agents, 2617
- Blood pressure,
arachidonate-induced hypotension,
haptoglobin level in plasma, 613
effect of dietary taurine, 2689
effect of propranolol, 1698
effects of prostaglandins, 1611
- Bone marrow,
effect of 5-azacytidine on RNA and
DNA synthesis, 745
immunosuppressive effects of methyl-
glyoxal-bis(guanylhydrazone) and
antagonism by spermidine, 1555
- Bovine serum albumin,
drug displacement interactions, 139

- Bradykinin,
 hydrolysis by plasma kininase II
 and subunits, 1651
 inactivation by human placenta, 2829
 soluble dextran complex of, 173
- 2-Br- α -ergocryptine,
 effect on hepatic steroid metabolism,
 role of pituitary hormones, 1713
- Bretylium,
 blockade of adrenergic nerve
 terminals, reversal by tetraethyl-
 ammonium, 1512
- Bromazepam,
 metabolism in the rat, 809
- Bromoacetate,
 effect on ornithine decarboxylase in
 neuroblastoma cells, 717
- Bromoacetylcholine,
 inhibition of human placental
 choline acetyltransferase, 1331
 effect on ornithine decarboxylase in
 neuroblastoma cells, 717
- Bromobiphenyls,
 metabolism in the rabbit, 1245
- Bromocryptine,
 antiepileptic action and effect on
 monoamine metabolism, 2821
- Bronchodilation,
 correlation with inhibition of
 phosphodiesterase, 254
- Burimamide,
 inhibition of human polymor-
 pho-nuclear leukocyte derived
 histaminase, 2562
- Butacaine,
 affinity for muscarinic receptor,
 2039
- Butanol,
 action in mitochondria, 2835
 effect on alloxan inhibition of
 glucose-induced insulin release
 in pancreatic islets, 1749
- Butoxamine,
 inhibition of ATPase in synaptosomes
 2015
- Butylated hydroxytoluene,
 cyclic nucleotides and lung
 enlargement, 1671
- γ -Butyrolactone,
 effect on diazepam binding in
 brain, 2745
- Butyryl-CoA dehydrogenase,
 in liver mitochondria, effect of
 pent-4-enoic acid, 2879
- Butyryl-CoA synthetase,
 in liver mitochondria, effects of
 hypoglycin metabolites and
 pent-4-enoic acid, 2879
- Cadmium,
 effect on cadmium and zinc profile
 in male and female rat liver
 cytosol, 2001
 effect on heme oxygenase and
 hemoproteins in endoplasmic
 reticulum, 364
 resistant fibroblast cells, 647
 effect on warfarin interaction with
 human serum albumin, 2957
- Cadmium-binding protein,
 in fibroblast cells, 647
 in liver and kidney of Fulmarus
 glacialis, 822

Cadmium-thionein,

induction of renal metallothionein
synthesis, 1163

Caffeine,

and chlorambucil, effect on cyclic
nucleotide metabolism in HeLa and
Chinese hamster cells, 604

effect on high energy phosphates in
frog skeletal muscle, 2965

inhibition of human myometrial
cyclic AMP phosphodiesterase, 1292

inhibition of phosphodiesterase and
relaxation of tracheal smooth
muscle, 254

methylxanthine and methyluric acid
derivatives, pharmacology, 1545

effect on phosphodiesterase, 5'-
nucleotidase and adenosine
deaminase in kidney, 2845

Calcium,

activation of tryptophan hydroxylase
from serotonergic neurons, 1069

effect on angiotensin II binding to
isolated renal glomeruli, 517

binding by heart sarcolemma,
effect of antiarrhythmic agents,
1281

effect of divalent cations, 2605

effect on carbamylcholine-stimulated
cyclic GMP formation in
neuroblastoma cells, 2039

influence and effect of flufenamic
acid on histamine release from
mast cells, 1385

intracellular stores, effect of
2,4-dinitrophenol, 2199

role in activation of tyrosine-3-

Calcium(contd.)

mono-oxygenase by lasalocid, 673

transport in sarcoplasmic reticulum,
inhibition by quinine, 539

effect on transport and metabolism
of dextran sulphates, 1931

turnover in cardiac muscle, effect
of adriamycin and ouabain, 985

uptake by adrenal chromaffin cell
membrane, effects of chlorprom-
azine and amphetamine, 114

Calcium ethylenediaminetetraacetate,
effect on metabolism of collagen
and noncollagen proteins of
carrageenin granuloma, 1979

Calcium-aurine complex,
¹³C nuclear magnetic resonance
measurement, 803

Cancer,

intestinal, role of dietary fiber,
1393

Cannabichromene,

effect on arachidonic acid release
from HeLa cells, 1275

Cannabidiol,

effect on monoamine oxidase in
brain, 2513

pyrolysis products, inhibition of
prostaglandin biosynthesis, 607

Cannabinoids,

inhibition of lymphocyte acyl-
transferase, 329

release of arachidonic acid from
HeLa cells, 1275

effect on testosterone metabolism
in liver microsomes, 1725

Cannabinol,

- Cannabinol,
effect on arachidonic acid release
from HeLa cells, 1275
- Carbachol,
inhibition of PGE₁-sensitive adenyl
cyclase in cultured neuronal cells 1167, 1173
- Carbamylcholine,
effect on polyphosphoinositide
metabolism in brain in vivo, 1239
stimulated formation of cyclic GMP
in neuroblastoma cells, 2039
- Carbaryl,
inhibition of acetylcholinesterase
in fetal and maternal tissues,
2647
inhibition of kynurenine formamidase,
relation to teratogenesis, 2611
- Carbon disulphide,
metabolism in vivo to carbonylsulfide
and carbon dioxide, 1608
- Carbon monoxide,
effect on glucose metabolism in mice,
377
inhibition of drug monooxygenase in
Harderian gland, 575
inhibition of microsomal N-hydroxyl-
ation of N-2-fluorenylacetamide,
61
- Carbon tetrachloride,
induced cirrhosis, impaired drug
metabolism, 2577
induced microsomal lipid peroxidation,
role of cytochrome P-450, 1983
effect on liberation of cyanide from
succinonitrile, 1135
stimulated ethane expiration and
- Carbon tetrachloride(contd.)
lipid peroxidation, 563
- Carbenoxolone,
effect on lysosomal enzyme release,
2461
- cis- β -Carboxy_acrylamidine,
lipolytic activity in vivo and
in vitro, 279
- Carboxyl esterase,
in muscle during ischaemia, effect
of Mercurascan, 359
- Cardenolide non-steroidic analogues,
effect on phosphodiesterase in
heart and brain, 2769
- Cardiac glycosides,
autonomic nervous system actions,
849
- Carnitine,
in liver, effect of di-(2-ethyl-
hexyl)-phthalate, 2683
- Carnitine acetyltransferase,
in liver, effect of di-(2-ethyl-
hexyl)phthalate, 2863
- Carnitine palmitoyltransferase,
in liver, effect of di-(2-ethyl-
hexyl)phthalate, 2683
- Carrageenin granuloma,
effect of Ca-EDTA on metabolism of
collagen and non-collagen
proteins, 1979
inhibition of thromboxane B₂ and
6-ketoprostaglandin F_{1 α} formation
by anti-inflammatory drugs, 109
- Carrageenin oedema,
effect of anti-rheumatic drugs on
DNA and RNA in, 353
effect on lipid peroxidation in

Carrageenin oedema(contd.)

rat liver, spleen and lungs, 531

Cartilage,

paraquat binding in vivo, 1721

effects of prostaglandins, 1611

Cat,

effects of pentylenetetrazol and
trimethadione on brain monoamine
metabolism, 1815

Catalase,

in adipocytes, 2589

role in oxidation of mercury vapour,
1373

+Catechin,

inhibition of paracetamol induced
liver injury, 425

Catecholamines,

binding to β -adrenergic receptor and
activation of adenylate cyclase,
1445

biosynthesis in brain and heart,

effect of tetrahydroisoquinolines, Cathepsin D,
2699

catabolism in lung slices, effect of
anaphylaxis, 117

effect on cyclic AMP accumulation in
striatum, 2919

in heart, effect on glycogenolysis
and lactate production, 2901

interaction with adenosine on
ventricular cyclic AMP
accumulation, 187

effect of metabolic inhibitors and
ouabain on release from brain
tissue, 511

nicotine-induced release from
hippocampus and striatum, 2667

Catecholamines(contd.)

placental transfer, metabolism in
fetal tissues, 445, 451

radioenzymatic assay, 1519

release from brain tissue by

fenfluramine and N-ethylamphet-
amine, effects of pargyline, 1631

role in memory, 1793

stimulation of prostaglandin

biosynthesis in brain, 213

synthesis in pheochromocytoma cells,
effect of Lasalocid, 673

Catechol estrogen glutathione conjug-
ates,

formation of, 1833

Catechol-O-methyl transferase,

direct extraction radioassay, 773

distribution in pig liver and brain,
2623

in liver, inhibition by S-adenosyl-
homocysteine analogues, 1981

Cathepsin D,

from human gastric mucosa and
stomach carcinoma, inactivation
by diazoacetyl-DL-norleucine
methyl ester, 827

Catron,

effect on monoamine oxidation in
rat brain, 112

Caudate nucleus,

adenylate cyclase antagonism by
aporphines and protoberberines,
1113

Cell proliferation,

HeLa S₃ cells, effect of
 Δ^9 -tetrahydrocannabinol, 1759

Cerebellum,

- Cerebellum,
 cyclic nucleotides in, effect of
 dopamine and acetylcholine recept-
 or agonists and antagonists, 2333
- Cerebrospinal fluid,
 lithium transport from, 813
 effect of pentylenetetrazol and
 trimethadone on monoamines in, 1815
- Ceruloplasmin,
 in plasma, effect of clofibrate, 125
- Chick embryo,
 relation of kynurenine formamidase
 to teratogenesis, 2611
- Chick embryo liver cells,
 effect of modulation of intracellular
 cyclic AMP on drug-induced
 porphyrin biosynthesis, 2439
 porphyrin-inducing activity of
 aliphatic mono- and diesters, 2431
- Chinese hamster cells,
 effect of chlorambucil on cyclic
 nucleotide metabolism, 604
- Chloracizine,
 effect on drug metabolism, 2177
- Chloral hydrate-ethanol synergism,
 gas chromatography-mass spectrometry, 1-(2-Chloroethyl)-3-cyclohexyl-1-
 1019
- Chlorambucil,
 effect on cyclic nucleotide metaboli-
 sm in HeLa and Chinese hamster
 cells, 604
 influence of prostaglandin synthesis
 inhibitors on anti-tumour activity, 1389
- Chloramphenicol,
 binding to albumin of normal and
 uremic serum, 1717
- Chloramphenicol (contd.)
 mechanism of metabolic activation
 by rat liver microsomes, 335, 491
 metabolism by isolated hepatocytes,
 2759
- Chlordiazepoxid,
 binding to human serum albumin,
 microcalorimetric studies, 2787
 effect on liver blood flow, 2617
- Chlorimipramine,
 antagonism of p-chloroamphetamine
 depletion of brain 5-hydroxy-
 tryptamine, 193
 effect on monoamine uptake in vitro,
 1023
 effect on synaptosomal monoamine
 uptake, 1843
- Chlorinated cyclopentadienes,
 mutagenicity due to metabolic
 activation, 2927
- p-Chloroamphetamine,
 antagonism of depletion of brain
 5-hydroxytryptamine, 193
 long-term effect on serotonergic
 mechanisms in mice, 2033
- 1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea,
 role of isocyanates in action of,
 1359
- p-Chloromercuribenzoate,
 induced peroxidative metabolism in
 adipocytes, 2589
- N-[2-(p-Chlorophenoxy)-ethyl]cyclo-
 propylamine,
 inhibition of monoamine oxidase,
 1767, 2455
- β -(p-Chlorophenyl)-GABA,

- β -(p-Chlorophenyl)-GABA,
 effect on diazepam binding in
 brain, 2745
- Chloroquine,
 induced lipidoses, 1103
- Chlorpromazine,
 action on intestinal transport
 processes, 2781
 effect on ATPase in brain cortex, 132
 effect on ATPases in brain regions,
 1049
 binding to bilayer liposomes, 2721
 effect on calcium uptake by adrenal
 chromaffin cell membrane, 114
 hydroxylated metabolites, inotropic
 action, 995
 effect on prostaglandin biosynthesis
 in brain, 213
- Chlorthalidone,
 effect on phosphodiesterase, 5'-
 nucleotidase and adenosine
 deaminase in kidney, 2845
- Cholephilic anions,
 inhibitory effect on fatty acid uptake
 by perfused rat liver, 897
- Choleresis,
 role of cyclic AMP, 2413
- Cholesterol,
 biosynthesis in brain, effect of
 zuclophene in combination with
 AY 9944 and triparanol, 1637
 effect on chlorpromazine binding to
 bilayer liposomes, 2721
 dietary, effect on intestinal
 hydroxylation and glucuronidation,
 1095
 in liver, effect of di-2-ethylhexyl-
- Cholesterol(contd.)
 phthalate, 2283
 in serum, effect on quinidine
 binding, 871
 synthesis in hepatocytes, effects of
 amphetamine and fenfluramine, 1987
- Cholesterol 7 α -hydroxylase,
 interrelationship with drug
 oxidation reactions, 1055
- Cholestyramine,
 effect on microsomal cholesterol
 7 α -hydroxylase activity, 1055
- Choline,
 metabolism in human term placenta,
 1251
- Choline acetyltransferase,
 in heart, regional distribution, 2409
 in human placenta, inhibition by
 halogeno-acetylcholines, 1331
- Choline chloride,
 effect on acetylcholine in kainate-
 lesioned striatum, 2962
- Cholinergic drugs,
 effect on α -aminoisobutyric acid
 uptake by human placenta, 285
 effect on 1-phosphatidylinositol-4-
 phosphate and 1-phosphatidyl-
 inositol-3,4-bisphosphate
 synthesis and metabolism in
 brain, 2519
- Cholinesterase,
 regional distribution in heart, 2409
- Cholinolytic factor,
 in serum, effect on myocardium, 2793
- Chondroitin sulphate,
 effect on activated factor X, 609

- Chromaffin cells,
calcium uptake by membrane, effect
of chlorpromazine and amphetamine
114
- Cimetidine,
inhibition of human polymorphonuclear
leukocyte derived histaminase,
2562
- Cirrhosis,
effect on albumin binding of diazepam
salicylic acid and warfarin, 2729
impaired drug metabolism in, 2577
- Cismethrin,
effect on acetylcholine and cyclic
nucleotides in rat brain, 1703
- Citrate synthase,
in brain cortex subfractions, effect
of bamethan, 2278
- Clofibrate,
enhancement of renal gluconeogenesis,
2275
effect on glycolytic metabolites and
ATP in skeletal and cardiac
muscle, 244
induced alterations in zinc, iron and
copper metabolism, 125
maternal transport and effects, 2063
morphological and enzymatic alterat-
ions in rat liver, 167
- Clorgyline,
inhibition of monoamine oxidase,
in brain mitochondria subfractions,
2455
in hamster brain, 959
in intimal endothelial cells, 2371
in pig heart, 923
species and organ differences, 97
- Clorgyline(contd.)
effect on trinitrobenzenesulfonic
acid incorporation into
mitochondrial membranes, 2327
- Coagulation,
role of factor X, 609
- Cobalt,
effect on heart sarcolemmal bound
enzymes and calcium binding, 2605
- Cobaltous chloride,
effect on carbon tetrachloride-
stimulated ethane expiration, 563
- Coenzyme A,
in liver, effect of di-(2-ethyl-
hexyl)phthalate, 2683
effect on platelet function, 1193
Coenzyme A - requiring reactions,
effects of hypoglycin metabolites
and pent-4-enoic acid acid,
in vitro, 2879
in vivo, 2891
- Colchicine,
binding to tubulin, differences due
to methodology and protein
source, 71
- Collagen,
metabolism in granulation tissue,
role of prostaglandins, 1611
- Collagen proteins,
effect of Ca-EDTA on metabolism in
carrageenin granuloma, 1979
- Complement,
inhibition by amidines and guanid-
ines in vivo and in vitro, 1873
- Compound 48/80,
induced histamine release, 497
effect of flufenamic acid and

Compound 48/80(contd.)

calcium, 1385

Concanavalin A,

induced histamine release, 497

inhibition of human renin, 815

stimulation of lymphocytes, inhibition by mescaline, 2705

Contraceptive steroid combination,

effect on serum activation of lipoprotein lipase in rats, 795

Convulsions,

effect of aminooxyacetic acid on thresholds and GABA in brain, 103

3-mercaptopropionate induced, early changes in cerebral glutamate and GABA metabolism, 246

Copper,

in plasma, liver and muscle, effect of clofibrate, 125

Copper bleomycin,

effect on lung transglutaminase, 1211

Copper-isoniazid complexes,

inhibition of reverse transcriptase of Rous sarcoma virus, 579

Copper - D-penicillamine disulphide,

inhibition of denaturation of human gamma globulin, 469

Cordycepin,

effect on RNA synthesis and induction of N-acetyltransferase in pineal gland, 557

Corticosterone,

metabolism in rats, effect of indomethacin, 1977

Cortisol,

effect on glycosaminoglycan synthesis and molecular weight distribution

Cortisol(contd.)

in vitro, 1029

Cortisone,

effect on bovine pancreatic RNase, 1831

effect on taurine in heart, 2973

Cotton pellet granuloma,

effect of anti-rheumatic drugs on RNA and DNA in, 353

Coumarin,

effect on oxygen uptake and superoxide anion production by liver microsomes, 355

Creatine phosphate,

in skeletal muscle, effect of methylxanthines and potassium, 2965

Crithidia fasciculata,

inhibition by adenosine and its analogues, 1479

Curares,

effect on sulfonylation of acetylcholinesterase from fish and rat brain, 2693

Cyanide,

liberation from succinonitrile, effect of ethanol, 1135

Cyclic nucleotide phosphodiesterase,

in brain, effect of cardenolide analogues, 2769

inhibition by FPL 55712, 2065

in Dictyostelium, effect of 5-iodo-2'-deoxyuridine during development, 1597

in heart,

effect of cardenolide analogues,

- Cyclic nucleotide phosphodiesterase, in heart(contd.)
2769
normotensive and hypertensive rats, 1179
human myometrial, inhibition by uterine relaxant drugs, 1292
inhibition by 2,6-dimethyl-4-(3-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylic acid 3-[2-(N-benzyl-N-methylamino)]ethyl ester 5-methyl ester hydrochloride, 1269
inhibition and tracheal relaxation, 254, 729
in kidney, effect of methylxanthines and other drugs, 2845
in lung,
effect of butylated hydroxytoluene, 1671
differential inhibition, 89
tracheal, pharmacology of methyl-xanthine metabolites, 1545
in Walker carcinoma cells resistant to alkylating agents, 947
- Cyclic nucleotide phosphodiesterase inhibitors,
effect on bis-(4-nitrophenyl)phosphate hydrolysis, 733
- Cycloadenosine,
inhibition of Crithidia fasciculata, 1479
- Cycloheximide,
regulation of esterification process in adipose tissue, 1577
- Cyclopentiazide,
effect on phosphodiesterase, 5'-nucleotidase and adenosine
- Cyclopentiazide(contd.)
deaminase in kidney, 2845
- Cyclopentyl methylphosphonofluoridate,
inhibited acetylcholinesterase, effect of 1-alkyl-2-hydroxyimino-methylpyridinium salts on reactivation and aging, 2911
- Cyclophosphamide,
effect on plasma disposition of antipyrine and biliary excretion of phenolphthalein, 1413
toxicity in fibroblast/hepatocyte test system, 1849
- Cyclopropylamines,
N-substituted, inhibition of monoamine oxidase A and B forms, 1767
1-Cyclopropylmethyl-4-phenyl-6-methoxy-2-(1H)-quinazolinone,
inhibition of prostaglandin biosynthesis in rat small intestine, 723
- Cyproheptadine,
inhibition of platelet aggregation and release, effect of arachidonic acid, 2131
- γ -Cystathionase,
effect on plasma cysteine concentrations, 2807
- Cysteic acid decarboxylase,
in liver and brain of normotensive and hypertensive rats, 2689
- Cysteine,
effect on biliary excretion of methylmercury, 2203
 α -ketoanalogue, inhibition of glutamate decarboxylase in brain 2567

Cysteine(contd.)

in plasma, effect of propargyl-
glycine and L-cyst(e)ine-degrading
enzymes, 2807

Cysteine desulphydrase,

effect on plasma cysteine concentrat-
ions, 2807

Cytidine deaminase,

in HeLa cells, effects of 5-azacytid-
ine and 5,6-dihydro-5-azacytidine,
907

in primary rabbit kidney cells and
human skin fibroblasts, 1421

tetrahydrouridine interaction,
analysis by ligand techniques, 53

Cytidine diphosphate reductase,

in cultured human cells, 2297

Cytidine kinase,

in HeLa cells, effects of 5-azacytid-
ine and 5,6-dihydro-5-azacytidine,
907

Cytosine arabinoside,

liposome-encapsulated, pharmaco-
kinetics, 21

Cytochrome aa₃,

in liver mitochondria, effect of
ethanol, 2337

Cytochrome b₅,

in liver, effect of chloracizine and
ftoracizine, 2177

in smooth and rough endoplasmic
reticulum, effect of cadmium, 364

Cytochrome b₅ reductase,

in liver microsomes, phenobarbital-
induced increase, 367

Cytochrome c reductase,

in brain cortex subfractions, effect

Cytochrome c reductase(contd.)

of bamethan, 2278

induction by halogenated benzenes,
361

in intestinal microsomes, effect of
dietary cholesterol, 1095

in liver microsomes, effect of
thyroxine, 2027

Cytochrome oxidase,

in brain cortex subfractions,
effect of bamethan, 2278

in lung, effect of diethyldithio-
carbamate, 251

Cytochrome P-448,

associated ethoxyresorufin-O-
deethylase in hepatocytes, 1539

catalysed reactions, pituitary
involvement, 1125

in liver microsomes, ellipticine
interaction, 1203

Cytochrome P-450,

in adrenal microsomes, interaction
with metyrapone, 2147

in cultured human lymphocyte cell
line, 2659

in Harderian gland, 575

induction by halogenated benzenes,
361

in isolated perfused liver, effect
of oxygen on reaction with
halothane, 387

in liver microsomes,

effect of anti-cancer drugs, 1413

binding of isomeric phenyl-
oxazoles and phenylthiazoles, 2466

effect of chloracizine and

ftoracizine, 2177

- Cytochrome P-450,
 in liver microsomes(contd.)
 cirrhotic liver, 2577
 effect of desferrioxamine, 865
 development of sex differences, 627
 diethylmaleate difference spectra, 1098
 ellipticine binding, 1203
 effect of N-2-fluorenylacetamide N-hydroxylation, 61
 effect of indomethacin, 1977
 interaction with aliphatic N-hydroxylamines, 1229
 effect of isosorbide dinitrate, 1695
 effect of oxygen on reaction with halothane, 387
 effect of parathion metabolism, 293
 effect of prolonged phenobarbitone treatment, 2357
 qualitative alteration, 29
 superoxide anion production, 355
 effect of theophylline in allyl-isopropylacetamide treated rats, 1729
 effect of thyroxine, 2027
 involvement in formation of catechol estrogen glutathione conjugates, 1833
 role in carbon tetrachloride-induced microsomal lipid peroxidation, 1983
 role of excited states of oxygen in oxidations and induction, 1805
 role in metabolism of para-substituted styrenes, 1435
- Cytochrome P-450(contd.)
 role of substrate lipophilicity in determining type I binding characteristics, 783
 secondary deuterium isotope effects on olefin epoxidation, 1441
 in smooth and rough endoplasmic reticulum, effect of cadmium, 364
 Cytochrome P-450 reductase, kinetic constants for NADPH, 965, 969, 979
 in liver microsomes, development of sex differences, 627
 Cytotoxicity,
 metabolism mediated, fibroblast/hepatocyte test system, 1849
 Cytotoxic lymphocytes,
 effects of adenosine analogues, 1487
 mechanism of action of 2-fluoro-adenosine, 1731
 Daunomycin,
 liposome-encapsulated, pharmacokinetics, 21
 Daunorubicin,
 carrier-mediated transport in Ehrlich ascites tumour cells, 1221
 uptake and retention by anthracycline resistant P388 leukemia cells, 2123
 Daunorubicin reductases,
 in liver, 2713
 O-Dealkylation,
 in Harderian gland, 575
 7-Deazapurine nucleosides,
 biochemical properties, 233
 3-Deazauridine - arabinosylcytosine

- 3-Deazauridine - arabinosylcytosine combinations, cytotoxicity, 181
- Decamethonium, effect on reactivation of cholinesterase by oximes, 757
- Decamethrin, effect on acetylcholine and cyclic nucleotides in rat brain, 1703
- Dehydrogenases, inhibition by hexachlorophene, 2947
- 4-Demethoxy-daunomycin, interaction with DNA, 1881
- N-Demethylation, effect of bis-imidazoles, 1383
- 2'-Deoxyadenosine, inhibition of *Crithidia fasciculata*, 1479
- 5'-Deoxyadenosine, effect on purine ribonucleotide synthesis in vitro, 2163
- Deoxycholate, effect on Ca^{2+} -ATPase of intestinal brush border membrane, 1961
- Deoxycoformycin, interactions with adenosine deaminase, 2289
- potentiation of inhibitory effect of xylosyladenine on nuclear RNA synthesis in L1210 cells, 2543
- 2'-Deoxy cyclic nucleotide phosphodiesterases, in lung, 89
- 4-Deoxypyridoxine, effect on transmitter synthesis, 475
- Deoxyribonuclease, in tumour lysosomes, 1381
- Deoxyribonucleic acid, in inflamed tissue, effect of anti-rheumatic drugs, 353
- interaction with 4'-epi-adriamycin and 4-demethoxydaunomycin, 1881
- interaction with reduced metronidazole, 2089
- metabolism in L5178y cells, effect of 9- α -D-arabinofuranosyladenine, 1659
- reaction with platinum-pyrimidine blues, 1571
- synthesis in HeLa S₃ cells, effect of Δ^9 -tetrahydrocannabinol, 1759
- synthesis in normal and tumour tissue, effect of 5-azacytidine, 745
- synthesis in *Trypanosoma cruzi*, effect of 5-nitrofurantoin, 2815
- Deoxyribonucleic acid polymerase, in *Trypanosoma cruzi*, effect of 5-nitrofurantoin, 2815
- Depolarization, activation of tryptophan hydroxylase from serotonergic neurons, 1069
- Deprenyl, effect on deamination of biogenic amines by human brain mitochondria, 1606
- derived selective inhibitors of B type monoamine oxidase, 1739
- indirectly acting sympathomimetic amine, 1591
- inhibition of monoamine oxidase in hamster brain, 959
- inhibition of monoamine oxidase in rat liver, 97

- Deprenyl,
 loss of selectivity for inhibition
 of B type monoamine oxidase after
 repeated treatment, 801
 resistant benzylamide oxidase, 1857
- Depression,
 mode of action of antidepressant
 drugs, 257
 phenylethylamine in brain, 1707
- Des-Asp angiotensin I,
 conversion to angiotensin III
in vivo and in vitro, 2871
- Desferrioxamine,
 decreased cytochrome P-450 and
 increased porphyrin concentration
 in liver, 865
- Desipramine,
 effect on prostaglandin biosynthesis
 in brain, 213
 effect on synaptosomal monoamine
 uptake, 1843
- Deslanoside,
 effect on 5-hydroxytryptamine,
 5-hydroxyindoleacetic acid and
 tryptophan hydroxylase in brain
 and spinal cord, 2459
- Desmethylimipramine,
 induced decrease in β -adrenergic
 receptor binding in brain, 2179
 effect of phenobarbital on distrib-
 ution and elimination in the rat,
 1521
- Desmosterol,
 in brain after zuclophene, AY9944
 and Triparanol treatment, 1637
- Development,
 amine oxidase in mouse liver
- Development(contd.)
 microsomes, 601
 sex differences in drug metabolism
 in mice, 627
- Dexamethasone,
 binding in kidney, non-steroidal
 anti-inflammatory drug
 competition, 1187
 effect on degradation of synovial
 fluid, 535
 effect on N,N-dimethylaniline
 demethylation and N-oxidation in
 pulmonary microsomes from
 pregnant and fetal rabbits, 1007
 inhibition of superoxide anion
 production, 777
- Dexetimide,
 effect on cyclic nucleotides in
 striatum and cerebellum, 2333
- Dextran,
 induced edema, histamine content of
 exudate, 2641
 induced histamine release, 497
 protection against drug-induced
 hemolysis, 1263
- Dextran complexes,
 of kallikrein, bradykinin and
 enzyme inhibitors, 173
- Dextran sulphates,
 transport and metabolism, effect
 of calcium, 1931
- Diamine oxidase,
 determined by ^{14}C putrescine method,
 interference of aldehyde
 metabolizing enzymes, 1159
 inhibition by 1,1-[(methylethane-
 diylidene)-dinitrilo]-bis-

- Diamine oxidase(contd.)
 (3-aminoguanidine) and 1,1'-
 [(methylethanediyldene)-dinitrilo]
 -diguanidine, 1625
- 1,3-Diaminopropane,
 effect on ornithine decarboxylase in
 neuroblastoma cells, 717
- Diaminopyrimidines,
 effect on histamine in brain, 1507
- Diaphorase,
 induction by 2,3,7,8-tetrachlorodi-
 benzo-p-dioxin, 505
- Diazepam,
 binding in brain, effect of GABAergic
 drugs, 2745
 binding to human serum albumin,
 microcalorimetric studies, 2787
 effect of liver cirrhosis on albumin
 binding, 2729
- Diazoacetyl-DL-norleucine methyl ester,
 inactivation of cathepsin D from
 human gastric mucosa and stomach
 carcinoma, 827
- Diazoxon,
 inhibition of kynurenine formamidase,
 relation to teratogenesis, 2611
- Dibenz(a,h)anthracene 5,6-oxide,
 specificity of skin epoxide hydratase,
 17
- Dibromosulphthalein,
 effect on fatty acid uptake by
 perfused rat liver, 897
 transport by hepatocytes, effect of
 bile salts, 397
- Dibucaine,
 affinity for muscarinic receptor,
 2039
- Dibucaine,
 inhibition of phagocytosis in
 peritoneal macrophages, 2447
- Dibutyryl cyclic AMP,
 induction of pineal N-acetyltrans-
 ferase, effect of calcium, 2549
 treated neuronal cells, neurotrans-
 mitter modulation of PGE₁-
 stimulated increase in cyclic
 AMP, 1173
- 3,5-Dicarboethoxy-1,4-dihydrocollidine
 induction of δ -aminolevulinic acid,
 inhibition by thioacetamide, 2095
- N,N-p-Di-2-chloroethylaminophenyl
 phosphate,
 kinetics of hydrolysis by phosphat-
 ases of normal and neoplastic
 tissues, 199
- Dichloro-p-nitroanisole O-demethylase,
 assay for drug metabolism in
 hepatocytes, 1129
- 2,6-Dichlorophenol indophenol,
 reduction by methemoglobin reductase,
 effects of 2-aryl-1,3-indandiones,
 943
- 5,6-Dichloro-1- β -D-ribofuranosyl-
 benzimidazole,
 effect on cells and viruses, 2475
- Diclofenac,
 inhibition of mucus glycoprotein
 biosynthesis, relationship with
 ulcerogenic activity, 877
 inhibition of superoxide anion
 production, 777
- Dicrotophos,
 inhibition of kynurenine formamidase,
 relation to teratogenesis, 2611

Dictyostelium discoideum,

5-iodo-2'-deoxyuridine inhibition of
differentiation and phosphodi-
esterase activity, 1597

Dieldrin,

effect on epoxide hydratase and
benzo(a)pyrene monooxygenase in
liver, kidney and lung, 2237
time course of induction of aryl
hydrocarbon hydroxylase in liver
nuclei and microsomes, 2103

Diene conjugation,

carbon tetrachloride-stimulated,
correlation with ethane expiration,
563

Diesters,

porphyrin-inducing activity, effect
of bis(p-nitrophenyl)phosphate,
2431

Dietary fiber,

model system for evaluating role in
chemical carcinogenesis, 1393

4,4'-Diethyl-aminoethoxyhexestrol,
induced lipidoses, 1103

Diethylaminoethyl benzilate,

antioxotremorine activity, 1117

Diethyldithiocarbamate,

effect on oxygen toxicity and lung
enzyme activity in rats, 251

Diethyl ether,

action in mitochondria, 2835

Di-2-ethylhexyl phthalate,

effect on hepatic phospholipids, 2283
effect on rat liver mitochondria,
2683

Diethyl maleate,

effect on microsomal drug metabolism, Dihydrofolate reductase,

Diethyl maleate(contd.)

1098

Diethylphosphorofluoridate,
rate of decomposition of phosphyl-
ated oximes, 857

Diethylstilbestrol,

effect on bovine pancreatic RNase,
1831
inhibition of human myometrial
cyclic AMP phosphodiesterase, 1292
oxidative metabolites in fetal,
neonatal and adult mouse, 1087

Digitalis,

automatic nervous system actions, 849
effect on 5-hydroxytryptamine,
5-hydroxyindoleacetic acid and
tryptophan hydroxylase in brain
and spinal cord, 2459

Dihalomethanes,

mechanism of metabolism to
formaldehyde, 2021
metabolism to carbon monoxide,
mechanism of reaction, 2349

(-)Dihydroalprenolol,

binding in brain, effect of
desmethylinipramine, 2179
binding to rabbit iris, 953

5,6-Dihydro-5-azacytidine,

cytostatic action, phosphorylation
and deamination in HeLa cells, 907

Dihydroergocryptine,

binding to rabbit iris, 953

Dihydroergotamine,

effect on lipolysis in isolated fat
cells of rat, guinea pig, dog
and man, 2305

- Dihydrofolate reductase,
in L1210 cells, effects of metho-
trexate- γ -dipeptides, 1821
- Dihydro-orotate dehydrogenase,
in brain, inhibition by barbituric
acids and its derivatives, 655
- Dihydrostreptomycin,
uptake and subcellular localization
in fibroblasts, 415
- Diiodotyrosine,
effect on methimazole uptake by
thyroid slices, 685
- Dimercaptosuccinic acid,
effect on biliary excretion of
methylmercury, 2203
- 3,4-Dimethoxybenzamidine,
complement inhibition *in vivo*, 1873
- Dimethylaminoethyl benzilate,
antioxotremorine activity, 1117
- 4-Dimethylaminophenol,
biotransformation in the dog, 2215
biotransformation in isolated
perfused rat liver and in the rat, 2223
- N,N*-Dimethylaniline,
N-demethylation and *N*-oxidation by
liver microsomes, 601
demethylation and *N*-oxidation in
pulmonary microsomes from pregnant
and fetal rabbits, 1007
- 2,9- β -Dimethyl-6,7-benzomorphan,
opoid activity, 1033
- Dimethylbiguanide,
effect on liver blood flow, blood
glucose and plasma immunoreactive
insulin, 789
- 5-(1,3-Dimethylbutyl)-5-ethyl-
- 5-(1,3-Dimethylbutyl)-5-ethyl-barbit-
uric acid,
effect on pyrimidine ribotide syn-
thesis in brain, 655
- 2,6-Dimethyl-4-(3-nitrophenyl)-1,4-
dihydropyridine-3,5-dicarboxylic
acid 3-[2-(*N*-benzyl-*N*-methyl
amino)] ethyl ester 5-methyl
ester hydrochloride,
inhibition of cyclic AMP
phosphodiesterase, 1269
- Dimethylnitrosamine,
effect on phosphorylation of rat
liver ribosomes, 2495
effect of thiamine deficiency on
metabolism and acute toxicity in
rats, 1783
toxicity in fibroblast/hepatocyte
test system, 1849
- Dimethylnitrosamine demethylase,
in liver microsomes after partial
hepatectomy, 2751
- Dimethylsulfoxide,
action on Friend cell differentiat-
ion, 1309
- Dinitrophenol,
effect on catecholamine release
from brain tissue, 511
dual effect on transmitter release
at frog neuromuscular junction,
2199
- Diols,
substrate specificity for alcohol
dehydrogenase from human and
horse liver, 1296
- Diphenhydramine,
inhibition of human polymorpha-

- Diphenhydramine(contd.)
 nuclear leukocyte derived
 histaminase, 2562
- Diphenylbutylpiperidines,
 effect on dopamine accumulation by
 striatal synaptosomes, 1063
- Diphenylhydantoin,
 uptake and metabolism in isolated
 perfused rat liver, 1151
- Dipotassium chlorazepate,
 binding to human serum albumin,
 microcalorimetric studies, 2787
- Dipyridamole,
 inhibition of adenosine uptake in
 human erythrocytes, 2191
 inhibition of platelet aggregation
 and release, effect of
 arachidonic acid, 2131
 effect on phosphodiesterase, 5'-
 nucleotidase and adenosine
 deaminase in kidney, 2845
- Dipyrone,
 effect on prostaglandin biosynthesis
 in brain, 213
- Disulfiram,
 effect on egg production and
 noradrenaline levels in
 Schistosoma mansoni, 817
- Dithiothreitol,
 induced peroxidative metabolism in
 adipocytes, 2589
- Diuretic agents,
 effect on phosphodiesterase, 5'-
 nucleotidase and adenosine
 deaminase in kidney, 2845
- Dodecachlorooctahydro-1,3,4-metheno-
 2H-cyclobuto[cd]pentalene,
 induction of liver aldehyde
 dehydrogenase, 2343
- DOPA,
 inhibition of decarboxylation by
 tryptophan analogues, 1289
 effect on prostaglandin biosynthesis
 in brain, 213
 uptake and metabolism by rat small
 bowel in vivo, 1365
- DOPA decarboxylase,
 in brain, effect of pyridoxal
 antagonists, 475
- Dopamine,
 in brain,
 effect of dopamine agonists,
 correlation with antiepileptic
 action, 2821
 effect of ethanolamine-O-sulphate
 induced elevation of GABA, 1827
 effect on cyclic AMP accumulation
 in striatum, 2919
 deamination by human brain
 monoamine oxidase, 1606
 inhibition of PGE₁-sensitive aden-
 yl cyclase in cultured
 neuronal cells, 1167, 1173
 effect of metabolic inhibitors on
 release from brain tissue, 511
 nicotine-induced release from
 striatum, 2667
 effect on prostaglandin biosynthesis
 in brain, 213
 radioenzymatic assay, 1519
 receptor agonists and antagonists,
 effect on cyclic nucleotides in

- Dopamine(contd.)
- striatum and cerebellum, 2333
 - release from brain tissue by
 - fenfluramine and N-ethylamphetamine 1401
 - effect of pargyline, 1631
 - in Schistosoma mansoni, effect of
 - disulfiram, 817
 - sensitive adenylate cyclase,
 - effects of 2-aminotetralin derivatives, 1417
 - in retinal synaptosomes, 2281
 - synaptosomal uptake,
 - inhibition by bicyclo-octanes, 2907
 - effect of mazindol, 1843
 - effect of Org 6582, 1023
 - effect of psychotropic drugs, 1063
 - uptake by platelets, effect of
 - tranlycypromine, 1197
 - Dopamine agonists,
 - protection against seizures and
 - effect on monoamine metabolism, 2821
 - Dopamine glucuronide,
 - accumulation in gut after dopa
 - feeding, 1365
 - Dopamine β -hydroxylase,
 - dual-wavelength spectrophotometric assay, 829
 - in human serum, glycerol-induced changes, 2369
 - regulation of, 1895
 - in sympathetic neurons, a tritium-release in vivo assay, 2499
 - Dopaminergic receptor agonists,
 - effect on Δ^9 -tetrahydrocannabinol-induced rise in plasma fatty acids, 407
 - Drug-albumin interactions,
 - microcalorimetric investigations, 1401
 - Drug displacement interactions,
 - representation and interpretation, 139
 - Drug metabolism,
 - assay using dichloro-p-nitroanisole O-demethylase, 1129
 - Drug-protein complexes,
 - circular dichroism studies, 1043
 - Edema,
 - dextran induced, histamine in exudate, 2641
 - Ehrlich ascites tumour cells,
 - effect of antitumour agents on lysosomes, 1381
 - transport of daunorubicin, adriamycin and rubidazone in, 1221
 - Ellipticines,
 - as inhibitors of aryl hydrocarbon hydroxylase, 1203
 - Endorphin analogues,
 - effect on receptors in mouse vas deferens, 2275
 - Endothelial cells,
 - aorta, monoamine oxidase forms in, 2371
 - Endotoxic shock,
 - translocase inhibition, 2931
 - Endotoxin,
 - enhanced toxicity of 6-mercaptopurine, 2507
 - Enkephalin,
 - hydrolysis by cultured human endothelial cells and by purified

Enkephalin(contd.)

peptidyl dipeptidase, 843

Enkephalin analogues,

effect on receptors in mouse

vas deferens, 2275

Enzyme X,

in rabbit tissues, 1839

4'-Epi-adriamycin,

interaction with DNA, 1881

Epipolythiodioxopiperazines,

inhibition of reverse transcriptase,

635

Epoxidation,

effect of bis-imidazoles, 1383

Epoxide hydratase,

in liver, kidney and lung, effect of
epoxides, 2237

rat, mouse and human skin,

specificity, 17

Epoxides,

effect on epoxide hydratase and
benzo(a)pyrene monooxygenase in
liver, kidney and lung, 2237

Ergocornine,

antiepileptic action and effect on
monoamine metabolism, 2821

Ergometrine,

antiepileptic action and effect on
monoamine metabolism, 2821

Erythrocytes,

S -adenosyl-L-methionine uptake, 1427

antibodies of β -adrenergic

antagonists, 1527

inhibition of adenosine uptake, 2191

interactions of deoxycorformycin and
adenosine deaminase, 2289

effect of microsomal lipid

Erythrocytes(contd.)

peroxidation, 437

protecting effect of dextran on
drug-induced hemolysis, 1263

β -receptor activation of adenylate
cyclase, 1445, 1455

role in biotransformation of

4-dimethylaminophenol, 2215, 2223

subcellular distribution of protein
carboxymethylase and methyl-
acceptor proteins, 679

Erythro-9-(2-hydroxy-3-nonyl)adenine
hydrochloride,

effect on phosphodiesterase, 5'-
nucleotidase and adenosine
deaminase in kidney, 2845

Erythromycins,

hepatotoxicity, 1925

Eserine,

inhibition of kynurenine formamidase
relation to teratogenesis, 2611

Esterases,

in brain and liver, effect of
PNP-containing insecticides, 2049

Esterification,

in adipose tissue, effect of
cycloheximide, 1577

Esters of fatty acids,

anti-inflammatory activity, 832

Estradiol,

binding in uterus, effect of
methoxychlor and metabolites, 2417

formation of catechol estrogen

glutathione conjugates, 1833

effect on vitamin D metabolism in
Japanese quail, 2765

Estrogen receptor,

- Estrogen receptor,
 in liver,
 effect of metabolism, 2469
 possible mediation of side effects
 of oral contraceptives, 2571
- Estrogens,
 effect on bovine pancreatic RNase,
 1831
- Ethacrynic acid,
 influx and efflux in kidney cortex
 slices, dependence on sodium
 gradient, 2171
 inhibition of histamine release and
 ATPases in mast cells, 1561
 effect on phosphodiesterase, 5'-
 nucleotidase and adenosine
 deaminase in kidney, 2845
- Ethane expiration,
 effect of carbon tetrachloride
 in drug treated rats, 563
- Ethanol,
 effect on acetate disappearance from
 blood, 128
 effect on alloxan inhibition of
 glucose-induced insulin release
 in pancreatic islets, 1749
 alteration of serum tyrosine and
 tryptophan associated with
 dependence, 1697
 effect of chronic treatment on rat
 liver mitochondria, 2337
 effect on CNS metabolism in thiamine
 deficient mice, 1259
 effect on glucuronidation in
 hepatocytes, 2583
 interaction with glycine, 1913
 effect on kinetics of brain ATPase
- Ethanol(contd.)
 with alkali ions, 1353
 effect on liberation of cyanide
 from succinonitrile, 1135
 effect on lipolysis and cyclic AMP
 formation in fat cells, 2559
 effect on 5-methyltetrahydrofolate
 accumulation in isolated rat
 liver cells, 2069
 effect on mitochondrial protein
 synthesis and turnover, 457
 oxidation by isolated hepatocytes,
 from ethanol-treated rats, 7
 prenatal exposure, effect on
 alcohol dehydrogenase in liver,
 2755
 effect on synaptosomal glutamate
 binding, 1685
- Ethanolamine-O-sulphate,
 effect on brain GABA and monoamines,
 1827
- Ethanol-chloral hydrate synergism,
 gas chromatography-mass spectro-
 metry, 1019
- Ethanol withdrawal,
 effect on Na⁺,K⁺-ATPase in brain,
 1139
- Ethinyl estradiol,
 qualitative alteration in liver
 cytochrome P-450, 29
- p-Ethoxyacetanilide,
 O-deethylation by liver microsomes,
 effect of diethyl maleate, 1098
- 3-[4-(1-Ethoxycarbonyl-1-methoxy)-
 phenyl]-5-(3-pyridyl)-1,2,4-
 oxadiazole,
 alterations in rat liver, 167

- Ethoxycoumarin,
Q-deethylation in liver microsomes,
 pituitary involvement, 1125
- Ethoxyresorufin,
Q-deethylation in liver microsomes,
 pituitary involvement, 1125
Q-deethylation and sulphate conjugation in hepatocytes, 1533
- Ethoxyresorufin Q-deethylase,
 in hepatocytes, microfluorometric analysis, 1539
- N-Ethylamphetamine,
 release of catecholamines from brain tissue, effect of pargyline, 1631
- Ethyl dimethylphosphoramidocyanidate,
 inhibition of acetylcholinesterase,
 reactivation by 1-(ar)alkyl-2-hydroxyiminomethyl-pyridinium salts, 2229
- Ethylmorphine,
N-demethylation in liver microsomes,
 effect of chlorcizine and ftoracizine, 2177
 development of sex differences in mice, 627
 pituitary involvement, 1125
- Ethylmorphine demethylase,
 in liver microsomes,
 effect of indomethacin, 1977
 K_m (NADPH), 965, 969
 effect of prolonged phenobarbitone treatment, 2357
 effect of thyroxine, 2027
- Q-Ethyl Q-p-nitrophenyl phenylphosphorothionate,
 effect on esterase inhibition and
- Q-Ethyl Q-p-nitrophenyl phenylphosphorothionate(contd.)
 potentiation of malathion toxicity, 2049
- Etoprine,
 inhibition of histamine N-methyl transferase in vivo and in vitro, 1507
- Factor Xa,
 effect of mucopolysaccharides, 609
- Fasting,
 effect on S-adenosyl-L-methionine in liver, 2649
- Fat cells,
 effect of acetaldehyde on lipolysis and cyclic AMP formation, 2559
- Fatty acid anion,
 effect on warfarin binding with human serum albumin, 739
- Fatty acid ethyl esters,
 anti-inflammatory activity, 832
- Fatty acids,
 β -oxidation in liver mitochondria,
 effect of di-(2-ethylhexyl)-phthalate, 2683
 in plasma,
 effect of cis- β -carboxyacrylamide, 279
 effect of α -mono-p-myristyloxy- α' -methylcinnamoyl glycerol, 2631
 effect of Δ^9 -tetrahydrocannabinol, 407
 synthesis in vivo, effects of amphetamine and fenfluramine, 1987
 uptake by perfused liver, inhibitory effect of cholephilic anions, 897

- Fenclozac,
effect on hepatic microsomal mono-
oxygenases in phenobarbital-
treated adjuvant diseased rats,
1771
- Fenfluramine,
effect on lipid biosynthesis and
absorption, 1987
release of catecholamines from brain
tissue, effect of pargyline, 1631
effect on synaptosomal monoamine
uptake, 1843
- Fenitrothion,
effect on esterases and malathion
toxicity, 2049
- Fenoprofen,
binding to human serum albumin,
microcalorimetry, 1401
- Fetus,
adrenaline metabolism in tissues, 451
effect of carbaryl on acetylcholin-
esterase, 2647
N,N-dimethylaniline demethylation
and N-oxidation in pulmonary
microsomes, effect of dexamethas-
one, 1007
metabolism of diethylstilbestrol, 1087
effect of promethazine on adrenaline
disposition, 445
- Fibrin polymerization,
effects of bleomycin and Cu bleomycin
1211
- Fibroblast/hepatocyte test system,
metabolism-mediated cytotoxicity of
chemical carcinogens and
non-carcinogens, 1849
- Fibroblasts,
effects of allopurinol on purine
metabolism, 1297
effect of bleomycin on hyaluronic
acid synthetase in, 1551
cadmium resistance and cadmium
binding proteins in, 647
effect of cortisol on glycosamino-
glycan synthesis, 1029
nucleoside-catabolizing enzymes in,
1421
effect of prostaglandins on growth
of, 1611
susceptibility to β -adrenergic
stimulants, 373
uptake and intracellular localiza-
tion of aminoglycoside antibiotics,
415
- Fish,
kinetic analysis of brain
acetylcholinesterase, 2693
- Flavaspidic acid,
effect on fatty acid uptake by
perfused rat liver, 897
 β -Flavaspidic acid-N-methylglucamine
effects in liver in vitro, 2425
- Flufenamic acid,
binding to human serum albumin,
microcalorimetry, 1401
effect on compound 48/80 and
A23187- induced histamine
release from mast cells, 1385
- Fluorenone oxime,
metabolism by rat liver homogenate,
1919
N-2-Fluorenylacetamide,
induction of microsomal

- N-2-Fluorenylacetamide(contd.)
 N-hydroxylation, 61
- N-3-Fluorenylacetamide,
 oxidation at carbon-atom 9, 1581
- 2-Fluoroadenosine,
 inhibition of lymphocyte-mediated
 cytolysis, 1731
- 5-Fluorocytosine,
 mode of action, 703
- 5-Fluoro-2'-deoxyuridylic acid,
 effect on thymidylate synthetase
 from a 5-fluorocytosine-sensitive
 fungal isolate, 703
 tumour concentration as a determinant
 of 5-fluorouracil response, 2009
- Fluoroethylcytidine,
 role in reaction of bis-fluoroethyl
 nitrosourea with nucleic acids, 77
- 7- β -Fluoroethylguanosine,
 formation from reaction of bis-fluoro
 ethyl nitrosourea and guanosine,
 2391
- bis-Fluoroethyl nitrosourea,
 mechanism of action, 77
- 5-Fluoro-1- β -D-ribofuranosylimidazole-
 4-carboxamide,
 metabolism to 5'-triphosphate in
 human blood, 709
- 5-Fluorouracil,
 effect on lysosomes in tumours, 1381
 effect on plasma disposition of
 antipyrine and biliary excretion
 of phenolphthalein, 1413
 prevention of antitumour effect by
 hypoxanthine, 2979
 tumour 5-fluorodeoxyuridylate as a
 determinant of response, 2009
- Fluoxetine,
 antagonism of p-chloroamphetamine
 depletion of brain 5-hydroxy-
 tryptamine, 193
 effect on monoamine uptake in vitro,
 1023
- Flurazepam,
 binding to human serum albumin,
 microcalorimetric studies, 2787
- Flurbiprofen,
 effect on anti-proliferative
 activity of alkylating agents in
 tumours and normal tissues, 1389
- Formaldehyde,
 formation from dihalomethanes, 2021
- Forssman reaction,
 inhibition by amidines and
 guanidines, 1873
- Free radicals,
 induced synovial fluid degradation,
 535
- Friend cells,
 action of dimethylsulfoxide on
 differentiation, 1309
- Frog,
 effect of methylxanthines and
 elevated potassium on high
 energy phosphates in skeletal
 muscle, 2965
- Floricizine,
 effect on drug metabolism, 2177
- Fulmarus glacialis,
 cadmium and zinc binding protein
 in liver and kidney, 822
- Furosemide,
 effect on phosphodiesterase, 5'-
 nucleotidase and adenosine

- Furosemide(contd.)
 deaminase in kidney, 2845
- Fusarium moniliforme,
 toxic action of moniliforme, 483
- Fusidic acid,
in vivo stimulation of amino acid
 incorporation into protein, 2058
- GABAergic drugs,
 effect on diazepam binding in brain,
 2745
- D-Galactosamine,
 induced liver injury, protective role
 of S-adenosyl-L-methionine, 1431
- Gamma globulin,
 inhibition of denaturation by
 D-penicillamine disulphide-copper
 mixture, 469
- Gastric acid secretion,
 inhibition by 4-imidazolyl-3-amino-
 2-butanone, 2653
- Gastric mucins,
 effect of drugs on biosynthesis of,
 2775
- Gastric mucosa,
 effect of anti-inflammatory drugs on
 mucus glycoprotein biosynthesis,
 877
- Gentamicin,
 uptake and subcellular localization
 in fibroblasts, 415
- Glial cells,
 cultured, effect of pentobarbital on
 glutamate uptake, 2955
 effect on phenobarbital on
 respiration, 903
- Gliflumide,
 stereospecific plasma binding, 651
- Glutotoxin analogues,
 antireverse transcriptase activity,
 635
- Glomeruli,
 angiotensin II binding, Ca^{2+} and
 Mg^{2+} dependence, 517
- Glucagon,
 effect on cyclic AMP in liver and
 bile flow, 2413
 effect on heart metabolism and
 contractility, 2153
 effect on porphyrin biosynthesis,
 2439
- Glucocorticoids,
 control of phenylethanolamine
N-methyltransferase synthesis
 and degradation, 1895
 interaction with prostaglandin
 system in adipose tissue, 1409
 effect on taurine in heart, 2973
- Glucocorticoid receptors,
 binding of non-steroidal anti-
 inflammatory drugs in vitro, 1187
- Gluconeogenesis,
 mechanism of inhibition by hypo-
 glycin and pent-4-enoic acid,
 2879
 renal, effect of clofibrate, 2275
- Glucose,
 in blood, effect of dimethylbi-
 guanide, 789
 in brain, effects of ethanol and
 thiamine deficiency, 1259
 catabolism following carbon
 monoxide or hypoxic hypoxia, 377

Glucose(contd.)

incorporation into gastric mucosal glycoproteins, 2775

incorporation into glutamate and GABA in brain, effects of allylglycine, 1109

incorporation into glycogen in brain slices, effect of lithium, 799

induced insulin release in pancreatic islets, effect of ethanol and *n*-butanol on alloxan inhibition, 1749

metabolism in adipose tissue, effect of cycloheximide, 1577

metabolism in Ehrlich ascites tumour cells, effect of 5'-deoxyadenosine 2163

metabolism in mice, effects of adenosine, 1341

oxidation in adipocytes, effect of insulin and sulfhydryl reagents, 2589

turnover in the dog, effect of isoproterenol, 769

Glucose 6-phosphatase, in liver microsomes, effect of RMI 12330A, 640

Glucose 6-phosphate, in brain, effects of ethanol and thiamine deficiency, 1259

Glucose 6-phosphate dehydrogenase, torula yeast, inhibition by hexachlorophene, 2947

Glucuronic acid, urinary excretion of metabolites, effect of prolonged phenobarbitone treatment, 2357

 β -Glucuronidase,

in liver and spleen of Schistosoma mansoni infected mice treated with hycanthone, 473

release from liver lysosomes, effect of carbenoxolone, 2461

Glucuronidation, in hepatocytes, interaction of ethanol oxidation, 2583

in perfused liver and in microsomes of Gunn rats, 369

Glucuronylglycosaminoglycan sulphate, effect on activated factor X, 609

Glutamate, in brain, barbiturate-dependent rats, 1955

effects of ethanol and thiamine deficiency, 1259

changes in cerebral metabolism prior to convulsions induced by 3-mercaptopropionate, 246

synaptosomal binding, effect of ethanol administration, 1685

uptake by cultured glial cells, effect of pentobarbital, 2955

Glutamate decarboxylase, in brain, effect of aminooxyacetic acid, 103

inhibition by α -keto analogues of cysteine and homocysteine, 2567

inhibition by 2-keto-4-pentenoic acid, 1471

inhibition by 3-mercaptopropionate, 246

effect of pyridoxal phosphate

- Glutamate decarboxylase,
in brain(contd.)
antagonists and allylglycine, 475
- Glutamate dehydrogenase,
in liver, inhibition by hexachloro-
phene, 2947
- Glutamine,
protection against melphalan
cytotoxicity, 2865
- Glutathione,
in adipocytes, effect of insulin
and sulfhydryl reagents, 2589
role in biliary excretion of
methylmercury, 2203
1- and 4-thioesters of catechol
estrogen, 1833
- Glutathione \underline{S} -transferase,
in intestine and kidney, effect of
phenobarbital, 3-methylcholan-
threne and 3,4-benzo(α)pyrene,
1284
in liver,
effect of benzo(α)pyrene, 1284
effect of methylcholanthrene,
1284, 2487
effect of phenobarbital, 1284, 2487
effect of repeated administration
of isosorbide dinitrate, 1695
effect of 2,3,7,8-tetrachloro-
dibenzo-p-dioxin, 2487
- Glycerol,
induced changes in human serum
dopamine β -hydroxylase, 2369
- Glycerophosphate dehydrogenase,
in neonatal rat liver, effect of
clofibrate administration to the
mother, 2063
- Glycine,
incorporation into protein in liver,
effect of fusidic acid, 2085
interaction with ethanol, 1913
- Glycofurool,
effect on action of hexobarbital
and zoxazolamine, 2851
effects on hepatic microsomes, 2851
- Glycogen,
in brain slices, effect of lithium
on glucose incorporation, 799
in liver, effect of di-2-ethylhexyl
phthalate, 2283
in skeletal and heart muscle, effect
of clofibrate, 244
- Glycogenolysis,
in heart, effect of α - and β -
stimulation, 2901
in liver, α -adrenergic receptor
mediated increase, 1315
- Glycogen phosphorylase,
in liver, effect of amidephrine
and isoprenaline, 1315
- Glycoprotein,
biosynthesis in gastric mucosa, 2775
effect of ulcerogenic drugs, 877
effect of cycloheximide on
synthesis of, 1551
- Glycosaminoglycan,
synthesis in fibroblasts,
effect of cycloheximide, 1551
effect of prostaglandins, 1611
synthesis and molecular weight
distribution in vitro, effect
of cortisol, 1029
- Granulocytes,
human, effect of anti-inflammatory

- Granulocytes(contd.)
 drugs on, effect of pH, 525
- Growth hormone,
 in serum, effect of pituitary
 implantation in male rats, 1713
- Guanidines,
 complement inhibition in vitro and
in vivo, 1873
- Guanosine-3',5'-monophosphate,
 in brain,
 effect of CNS peptides, 2209
 effect of DDT, cismethrin and
 decamethrin, 1703
- correlation between accumulation of
 and relaxation of tracheal
 smooth muscle, 254
- effect of FPL 55712 on hydrolysis,
 2065
- hydrolysing enzyme in lung, effect
 of cyclic nucleotides, 89
- hydrolysis by rabbit kidney, effect
 of theophylline and other drugs,
 2845
- in lung,
 effect of butylated hydroxytoluene,
 1671
- effect of hypoxia, 911
- muscarinic receptor-mediated form-
 ation by cultured nerve cells,
 2039
- in striatum and cerebellum, effects
 of dopamine and acetylcholine
 receptor agonists and antagonists
 2333
- Guanosine triphosphate,
 role in coupling of adenylate cyclase
 to hormone receptors, 2083
- Guanylylimidodiphosphate,
 effect on myocardial adenylate
 cyclase in spontaneously
 hypertensive rats, 1967
- Guinea fowl(Numida meleagris),
 aflatoxin inhibition of hepatic
 mitochondria, 547
- Gunn rats,
 L-dopa uptake and metabolism in gut,
 1365
- UDP-glucuronyltransferase in
 perfused liver and in microsomes,
 369
- Halobenzimidazole ribosides,
 effect on cells and viruses, 2475
- Halogenated benzenes,
 induction of cytochrome P-450, 361
- Haloperidol,
 binding to neuroleptic receptors,
 307, 317
- effect of 2-aminotetralin
 derivatives, 1417
- effect on cyclic nucleotides in
 striatum and cerebellum, 2333
- Halothane,
 action in mitochondria, 2835
- effect on orotic acid uptake and
 uridine incorporation into liver
 RNA, 2187
- reaction with cytochrome P-450,
 effect of oxygen, 387
- and steroids, cumulative effect on
 mitochondrial respiration, 2959
- Hamster,
 characterization of monoamine
 oxidase, 959

- Haptoglobin,
 in plasma, effect of arachidonate-induced hypotension, 613
- Harderian gland,
 drug monooxygenase activity in, 575
- Harmol,
 glucuronidation in hepatocytes,
 effect of ethanol, 2583
- Hashish components,
 effect on monoamine oxidase in brain, 2513
- Heart,
 action of antiarrhythmic agents on sarcolemma, 1281
 adenylyate cyclase in in spontaneously hypertensive rats, 1179,1967
 effect of adriamycin on calcium turnover, 985
 effect of adriamycin on metmyoglobin reductase, 2079
 effect of allopurinol on purine metabolism in cultured cells, 1297
 effects of catecholamine and α - and β -stimulation on metabolism, 2901
 cholinergic system in, 2409
 effect of clofibrate on glycolytic metabolites and ATP in, 244
 effect of divalent cations on sarcolemmal bound enzymes and calcium binding, 2605
 effect of glucagon on metabolism and contractility, 2153
 increase in taurine by glucocorticoids, 2973
 inotropic action of hydroxylated chlorpromazine metabolites, 995
 lactate dehydrogenase in in
- Heart(contd.)
 normotensive and hypertensive rats, 1179
 monoamine oxidase type B in mitochondria, possible heterogeneity, 923
 effect of pentobarbital on NADH fluorescence, heart rate and left ventricular pressure, 1510
 phenylethylamine deamination, 2374
 phosphodiesterase in normotensive and hypertensive rats, 1179
 effect of pyrovalerone on noradrenergic mechanisms, 1693
 sensitivity to acetylcholine, effect of lysolecithin and lecithin in serum, 2793
 effect of thiamine deficiency on protein synthesis, 1677
- Heavy metals,
 effect on warfarin interaction with human serum albumin, 2957
- HeLa cells,
 effects of 5-azacytidine and 5,6-dihydro-5-azacytidine, 907
 effect of chlorambucil on cyclic nucleotide metabolism, 604
 cytotoxicity of arabinosylecytosine and 3-deazauridine combinations, 181
 inhibition of nucleoside uptake by nitrobenzylthioinosate, 1303
 effect of 5-iodo-2'-deoxyuridine on alkaline phosphatase in, 431
 release of arachidonic acid by cannabinoids, 1275
- HeLa-S3 cells,

HeLa-S3 cells,

ribonucleotide reductase in, 2297
effects of Δ^9 -tetrahydrocannabinol,
1759

Heme oxygenase,

in smooth and rough endoplasmic
reticulum, effect of cadmium, 364

Hemolysis,

drug-induced, protecting effect of
dextran, 1263
induced by lipid peroxidation, 437

Hemopexin,

association between induction and
the Ah allele, 1665

Heparinoids,

effect on activated factor X, 609

Hepatectomy,

effect on dimethylnitrosamine
demethylase in liver microsomes,
2751

Hepatocytes,

effect of amphetamine and fenflur-
amine on lipid biosynthesis, 1987
aromatic hydroxylation of
amphetamine, 2525
effect of bile salts on drug
transport in, 397
biphenyl metabolism, 1899
chloramphenicol metabolism in, 2759
effect of cirrhosis on drug
metabolism, 2577
effect of ethanol on 5-methyltetra-
hydrofolate accumulation, 2069
ethanol oxidation by, 7
ethoxyresorufin metabolism, 1533, 1539
effects of β -flavaspidic acid-N-
methylglucamate, 2425

Hepatocytes(contd.)

interaction of ethanol oxidation
with glucuronidation, 2583
metabolism and excretion of
benzo(a)pyrene, 693
paracetamol metabolism and toxicity
2859

Hepatoma cells,

cytotoxicity of 5-nitro-2'-deoxy-
uridine by inhibition of
thymidylate synthetase, 2663
immunochemical identity of 2-acetyl-
aminofluorene inducible
aldehyde dehydrogenase, 2463
toxicity of erythromycin
preparations, 1925

Heroin self-administration,

involvement of neurohypophyseal
principles, 1793

Hexachlorobenzene,

induction of cytochrome P-450, 361
time course of induction of aryl
hydrocarbon hydroxylase in liver
nuclei and microsomes, 2103

Hexachlorocyclopentadiene,

metabolic activation, 2927

Hexachlorophene,

inhibition of dehydrogenase
enzymes, 2947

Hexobarbital,

metabolism by liver microsomes,
effect of cirrhosis, 2577
effect of glycofurol, 2851
sleeping time,
effect of chloracizine and
ftoracizine, 2177
effect of glycofurol, 2851

- Hexobarbital-1',2'-epoxide,
intermediate in hexobarbital
metabolism, 135
- Hexobendine,
effect of bis(p-nitrophenyl)-phosph-
ate on elimination of, 2269
inhibition of adenosine uptake in
human erythrocytes, 2191
- Hexochlorocyclohexane isomers,
effect on mitogenic response of
bovine lymphocytes, 667
- Hippocampus,
nicotine-induced release of
catecholamines, 2667
- Histaminase,
polymorphonuclear leukocyte-derived,
inhibition by H-2 antagonists, 2562
- Histamine,
accumulation and metabolism by rat
lung in vivo, 820
effect on biosynthesis of gastric
mucins, 2775
in brain, elevation by diaminopyrim-
idine inhibitors of histamine-N-
methyltransferase, 1507
in dextran edema, 2641
release from lung, reduction with
age, 2119
release from mast cells,
effect of flufenamic acid and
calcium, 1385
by phospholipase A, 2115
relationship with ATPases in, 1561
effect of zinc-lidocaine complexes,
243
role in gastric acid secretion, 2653
- Histamine (H-2)antagonists,
inhibition of human polymorpho-
nuclear leukocyte-derived
histaminase, 2562
Histamine N-methyltransferase,
in brain,
inhibition by S-adenosylhomo-
cysteine analogues, 1981
purification, mechanism of action
and inhibition by drugs, 263
effect of diaminopyrimidines in vivo
and in vitro, 1507
Histamine-releasing agents,
differences in requirements and
actions, 497
Histidine decarboxylase,
in hypothalamus, inhibition by
4-imidazolyl-3-amino-2-butanone,
2977
Histocytic lymphoma cells,
ribonucleotide reductase in, 2297
Holmium ions,
effect on AMP deaminase, 2651
Homovanillic acid,
in brain,
effect of 4-deoxypyridoxine and
allylglycine, 475
effect of dopamine agonists,
correlation with antiepileptic
action, 2821
in CSF, effects of pentylenetetrazol
trimethadone, 1815
Human epidermoid carcinoma cells,
inosine analogues as substrates for
adenosine kinase in, 83
Huntington's disease,
effect of choline chloride and

- Huntington's disease(contd.)
 physostigmine on acetylcholine in
 rat striatum, 2962
- Hyaluronic acid,
 role of cortisol in metabolism of,
 1029
- Hyaluronic acid synthetase,
 in fibroblasts, effect of bleomycin,
 1551
- Hycanthone,
 effect on β -glucuronidase in liver
 and spleen of normal and
Schistosoma infected mice, 473
- Hydrocortisone,
 effect on degradation of synovial
 fluid, 535
 effect on prostaglandins in adipose
 tissue, 1409
 effect on taurine in heart, 2973
- Hydrogen peroxide,
 effect on oxidation of mercury
 vapour, 1373
 peroxidative catabolism in adipocytes
 in response to insulin and
 sulfhydryl reagents, 2589
- Hydroxamic acids,
 oxidation and carcinogenic potential,
 2939
- N-Hydroxy-2-acetylaminofluorene,
 mutagenicity in Ames-Salmoneller
 test system, 2399
- β -(5-Hydroxy-3-benzo[b]thienyl)- α -
 alanine,
 inhibition of DOPA decarboxylation,
 1289
- [¹²⁵I]Hydroxybenzylpindolol,
 β -receptor activation of adenylyate
- [¹²⁵I]Hydroxybenzylpindolol(contd.)
 cyclase, 1445, 1455
 2- and 4-Hydroxybiphenyl,
 conjugates, 1899
 2-Hydroxy-3-deoxyestradiol,
 formation of catechol estrogen
 glutathione conjugates, 1833
 2-Hydroxyestradiol,
 formation of catechol estrogen
 glutathione conjugates, 1833
 3-Hydroxyhexobarbital dehydrogenase,
 in rabbit liver, 5 β -androstane-
 3 α ,17 β -diol as substrate for, 989
 2-[Hydroxyiminomethyl]-1-methyl-
 pyridinium methane sulphonate,
 rate of decomposition of
 phosphorylated oxime, 857
 effect on reactivation and aging of
 cyclopentyl methyl phosphoryl-
 ated acetylcholinesterase, 2911
- Hydroxyindoleacetic acid,
 in brain,
 effect of 4-deoxypyridoxine and
 allylglycine, 475
 effect of deslanoside, 2459
 effect of dopamine agonists,
 correlation with antiepileptic
 action, 2821
 long-term effects of p-chloro-
 amphetamine, 2033
 in CSF, effects of pentylenetetrazol
 and trimethadone, 1815
- Hydroxyindole-O-methyltransferase,
 in pineal gland, inhibition by
 pyridoxal 5'-phosphate, 120
- N-Hydroxylamines,
 interaction with microsomal

Hydroxylamines(contd.)

cytochrome P-450, 1229

11 β and 21-Hydroxylase,

in adrenals, effect of metyrapone,
2147

N-Hydroxylation,

induction by N-2-fluorenylacetamide,
61

N-Hydroxyphenacetin,

conversion of conjugates to reactive
intermediates, 1641

2,2-bis(p-Hydroxyphenyl)-1,1,1-tri-
chloroethane,

effect on uterine ornithine
decarboxylase, 2417

7-(3-Hydroxy-2-propylphenoxy[2-hydroxy-
propoxyl]-4-oxo-8-propyl-4H-1-
benzopyran-2-carboxylate,

inhibition of cyclic nucleotide
phosphodiesterase, 2065

5-Hydroxytryptamine,

association with 6-methylpurine in
aqueous solution, 595

in brain,

antagonism of p-chloroamphetamine
depletion of, 193

effect of deslanoside, 2459

effect of dopamine antagonists,
correlation with antiepileptic
action, 2821

effect of ethanolamine-O-sulphate
induced elevation of GABA, 1827
long-term effects of p-chloro-
amphetamine, 2033

effect of prostaglandin E₁, 130

deamination by macrophages at rest
and during phagocytosis, 1909

5-Hydroxytryptamine(contd.)

induced paw edema, 2641

effect on prostaglandin biosynthesis
in brain, 213

pulmonary disposition in intact
mice, 569

release from platelets,

effects of adenosine-3',5'-

diphosphate and coenzyme A, 1193

role of arachidonic acid, 2131

in stomach and intestine, effect
of prostaglandin E₁, 130

synaptosomal uptake,

inhibition by bicyclo-octanes,
2907

effect of mazindol, 1843

effect of Org 6582, 1023

uptake by platelets, effect of
tranylcypromine, 1197

5-Hydroxytryptophan,

inhibition of DOPA decarboxylation,
1289

6-Hydroxyuridine-5'-monophosphate,

inhibition of pyrimidine ribotide
synthesis in brain, 655

Hypertension,

action of propranolol, 1698

Hypertensive rats,

adenylate cyclase, phosphodiesterase
and lactate dehydrogenase in
heart, 1179

altered function of myocardial
adenylate cyclase, 1967

effect of dietary taurine, 2689

increased prostaglandin F_{2a}

synthesis in renal papilla, 2363

Hypertrophy,

- Hypertrophy,
cyclic AMP mediated and induction of
mixed-function oxygenases, 219
- Hypocholesterolemic agents,
effect on cholesterol biosynthesis
in CNS, 1637
- Hypoglycaemia,
induced by hypoglycin and pent-4-
enoic acid,
in vitro, 2879
in vivo, 2891
- Hypoglycin,
mechanisms of metabolic disturbances, in vitro, 2879
in vivo, 2891
- Hypophysectomy,
effect on liver microsomal oxygenases,
1125
- Hypothalamus,
inhibition of histidine decarboxylase
in by 4-imidazolyl-3-amino-2-
butanone, 2977
- Hypothermia,
role in antiepileptic action of
dopamine agonists, 2821
in thiamine-deficient rats, effect
on protein synthesis, 1677
- Hypovolemic shock,
effect on S-adenosyl-L-methionine
in liver, 2649
- Hypoxanthine,
prevention of antitumour effect of
5-fluorouracil, 2979
uptake and release in cultured heart
cells, effect of allopurinol, 1297
- Hypoxia,
effects on pulmonary vascular
- Hypoxia(contd.)
reactions and on lung cyclic AMP
and cyclic GMP in pigs, 911
- Hypoxic hypoxia,
effect on glucose metabolism in
mice, 377
- Ibuprofen,
binding to glucocorticoid receptors
in vitro, 1187
inhibition of superoxide anion
production, 777
- Ibuprofen,
uptake and biotransformation in
perfused lungs, 301
- ICI 58301,
phosphodiesterase inhibition and
tracheal relaxation, 729
- Imidazoles,
effect on degradation of synovial
fluid, 535
inhibition of microsomal oxidation,
1383
effect on porphyrin biosynthesis,
2439
- bis-Imidazoles,
inhibition of microsomal oxidation,
1383
- 4-Imidazolyl-3-amino-2-butanone,
inhibition of gastric acid
secretion, 2653
inhibition of histidine decarboxyl-
ase in rat hypothalamus, 2977
- Immunoadjuvant,
muramyl-dipeptide, past, present
and future, 2183
- Immunodeficiency,

- Immunodeficiency,
 regulation of thymocyte cyclic AMP
 by adenosine, 2675
- Indocyanin green,
 effect on fatty acid uptake by
 perfused rat liver, 897
 transport by hepatocytes, effect of
 bile salts, 397
- Indoleacetic acid,
 formation in brain in vitro, effect
 of thyroid hormones, 751
- Indolemethoxyethanolamines,
 β -receptor binding and inhibition
 of adenylate cyclase, 1455
- Indomethacin,
 effect on anti-proliferative activity
 of alkylating agents in tumours
 and normal tissue, 1389
 binding to glucocorticoid receptors
in vitro, 1187
 binding to human serum albumin,
 microcalorimetry, 1401
 effect on degradation of synovial
 fluid, 535
 effect on DNA and RNA in inflammations,
 353
 effects on hepatic steroid and drug
 metabolism in male and female
 rats, 1977
 inhibition of human myometrial
 cyclic AMP phosphodiesterase, 1292
 inhibition of mucus glycoprotein
 biosynthesis, 877
 inhibition of platelet aggregation
 and release, effect of arachidonic
 acid, 2131
 inhibition of superoxide anion
- Indomethacin(contd.)
 production, 777
 inhibition of thromboxane B₂ and
 6-ketoprostaglandin F_{1 α} formation
 in carrageenin granuloma, 109
 phosphodiesterase inhibition and
 tracheal relaxation, 729
 effect on prostaglandin biosynthesis
 in brain, 213
- Inflammation,
 chronic, role of prostaglandins, 1611
 role of histamine, 2641
 role of oxygen radicals, 1397
- Inosine analogues,
 as substrates for adenosine
 kinase, 83
- Insulin,
 glucose induced release from
 pancreatic islets, effect of
 ethanol and n-butanol on
 alloxan inhibition, 1749
 induced peroxidative metabolism in
 adipocytes, 2589
 in plasma, effect of dimethylbi-
 guanide, 789
 secretion in the dog, effect of
 isoproterenol, 769
 secretion from perfused pancreas,
 effects of α -ketocarboxylic
 acids, 1321
- Interferon,
 effect of halobenzimidazole ribo-
 sides on production of, 2475
- Intestinal cancer,
 model system for evaluating role
 of dietary fiber, 1393
- Intestine,

- Intestine,
 Ca^{2+} ATPase in brush border membrane, effect of deoxycholate, 1961
 effect of chlorpromazine on transport processes, 2781
 effect of dietary cholesterol on drug metabolizing enzymes, 1095
 glutathione S -transferase in, effect of phenobarbital, 3-methylcholanthrene and 3,4-benzo(α)pyrene, 1284
 5-hydroxytryptamine in, effect of PGE_1 , 130
 inhibition of prostaglandin biosynthesis by SL-573, 723
 lipid absorption, effect of amphetamine and fenfluramine, 1987
 transport and metabolism of dextran sulfates, 1931
 uptake and metabolism of L-dopa, 1365
- Iodoacetate,
 effect on catecholamine release from brain tissue, 511
- Iodoacetylcholine,
 inhibition of human placental choline acetyltransferase, 1331
- 5-Iodo-2'-deoxyuridine,
 effect on alkaline phosphatase in HeLa cells, 431
 inhibition of *Dictyostelium* differentiation and cyclic AMP phosphodiesterase activity, 1597
- Ionophore A23187,
 induced histamine release, 497
 effect of flufenamic acid and calcium, 1385
- Iproniazid,
 effect on histamine metabolism by rat lung, 820
 effect on monoamine oxidation in rat brain, 112
- Iris,
 adrenergic receptors in, 953
- Iron,
 low dietary level, effect of desferrioxamine on porphyrins in liver, 865
 in plasma, liver and muscle, effect of clofibrate, 125
- Ischaemia,
 effect of Mercurascan on enzymes in striated muscle, 359
- Isobarbituric acid,
 effect on pyrimidine ribotide synthesis in brain, 655
- 3-Isobutyl-methylxanthine,
 effect on phosphodiesterase, 5'-nucleotidase and adenosine deaminase in kidney, 2845
 effect on porphyrin biosynthesis, 2439
- Isocitrate dehydrogenase,
 in heart, inhibition by hexachlorophene, 2947
 leakage from liver slices exposed to paracetamol, 425
- Isocyanates,
 role in action of therapeutic nitrosoureas, 1359
- Isogentisin and its 3-O-glucoside,
 inhibition of monoamine oxidase in brain, 2075
- Isonicotinic acid hydrazide,

- Isonicotinic acid hydrazide,
mode of action on yeast, 1145
- Isonicotinic acid hydrazide - copper
complexes,
inhibition of reverse transcriptase
of Rous sarcoma virus, 579
- Isoprenaline,
effect on hepatic glycogenolysis,
1315
effect on lipolysis in isolated fat
cells of rat, guinea pig, dog
and man, 2305
- Isoprenaline + thymoxamine,
effect on glycogenolysis and lactate
production in heart, 2901
- N-Isopropyldopamine,
effect on cyclic AMP accumulation
in striatum, 2919
- Isoproterenol,
effect on ATP in fibroblasts, 373
effect on ATPase in synaptosomes,
2015
effect on cyclic AMP accumulation in
striatum, 2919
effect on glucose turnover and
insulin secretion in the dog, 769
induced increase in cyclic AMP in
accessory sex organs, 465
induction of pineal N-acetyltrans-
ferase,
effect of calcium, 2549
effect on RNA synthesis, 551, 557
interaction with adenosine on
ventricular cyclic AMP accumu-
lation, 187
lipolytic activity in isolated
adipocytes, 1885
- Isoproterenol(contd.)
effect on myocardial adenylate
cyclase in spontaneously
hypertensive rats, 1967
effect on thromboxane A₂ generation
in platelets, 1603
- Isoquinolines,
effect on Na⁺,K⁺-ATPase in brain,
2555
- Isosorbide dinitrate,
effect on microsomal and soluble
liver enzymes, 1695
- Japanese quail,
effect of estradiol on vitamin D
metabolism in, 2765
- Kainate-lesioned striatum,
effect of choline chloride and
physostigmine on acetylcholine
levels, 2962
- Kallikrein,
generation of subunits of human
plasma kininase II, 1651
soluble dextran complex of, 173
- Kanamycin,
uptake and subcellular distribution
in fibroblasts, 415
- KB cells,
ribonucleotide reductase in, 2297
effects of unsaturated ketonucleo-
sides, 1037
- KC-500,
effect on covalent binding of
polychlorinated biphenyls to
microsomes, 585
- Ketamine,

- Ketamine,**
 action in mitochondria, 2835
- α -Ketocarboxylic acids,**
 effect on insulin secretion from
 perfused rat pancreas, 1321
- α -Keto- γ -mercaptobutyric acid,**
 inhibition of glutamate decarboxylase
 in brain, 2567
- Ketonucleosides,**
 effects on KB cells, 1037
- 2-Keto-4-pentenoic acid,**
 role in allylglycine-induced
 seizures, 1471
- 6-Ketoprostaglandin $F_{1\alpha}$,**
 inhibition of formation by anti-
 inflammatory drugs in carrageenin
 induced granuloma, 109
- Kidney,**
 angiotensin II binding to isolated
 glomeruli, 517
 binding of non-steroidal anti-
 inflammatory drugs to glucocort-
 icoid receptors, 1187
 binding of polychlorinated biphenyl
 metabolites to microsomes, 585
 clofibrate enhancement of
 gluconeogenesis, 2275
 ethacrynic acid fluxes, effect of
 sodium, 2171
 glutathione S -transferase in, effect
 of phenobarbital, 3-methylcholan-
 threne and 3,4-benzo(a)pyrene,
 1284
 increase prostaglandin $F_{2\alpha}$ synthesis
 in papilla of spontaneously
 hypertensive rats, 2363
 induction of aryl hydrocarbon
- Kidney(contd.)**
 hydroxylase by 3-methylcholan-
 threne, sex differences, 2537
 induction of metallothionein
 synthesis by parenteral cadmium-
 thionein, 1163
 effects of methylxanthines on
 phosphodiesterase, 5'-nucleotid-
 ase and adenosine deaminase in,
 2845
 primary cells, nucleoside-catabol-
 izing enzymes in, 1421
 effect of *Shigella* endotoxin on
 prostaglandin synthetase in
 medulla, 807
 tetraethylammonium transport in
 slices, 999, 1325
 effect of thiamine deficiency on
 protein synthesis, 1677
- Kininases,**
 in human placenta, 2829
- Kininase II,**
 in human plasma, subunits generated
 by kallikrein, 1651
- Kininogen,**
 in plasma, determination, 1463
- K-region epoxides,**
 of polycyclic hydrocarbons,
 specificity of skin epoxide
 hydratase, 17
- Kynurenine,**
 deamination by brain monoamine
 oxidase, inhibition by isogent-
 isin and its 3-O-glucoside, 2075
- Kynurenine formamidase,**
 in yolk sac membranes, relation to
 teratogenesis, 2611

- Lactate,
 in brain, effects of ethanol and
 thiamine deficiency, 1259
 production and distribution in heart,
 effects of α - and β -stimulation,
 2901
- Lactate dehydrogenase,
 in heart,
 inhibition by hexachlorophene,
 2947
 normotensive and hypertensive
 rats, 1179
 in muscle during ischaemia, effect
 of Mercurascan, 359
- Lasalocid,
 activation of tyrosine-3-mono-
 oxygenase in pheochromocytoma
 cells, 673
- Lead,
 effect on warfarin interaction with
 human serum albumin, 2957
- Lecithin,
 in serum, effect on sensitivity of
 heart to acetylcholine, 2793
- Lectin,
 stimulation of lymphocytes, inhibit-
 ion by mescaline, 2705
- Leptophos,
 neurotoxicity in hens, role of acid
 phosphatase, 2055
- Lergotrile,
 metabolism to 13-hydroxylergotrile,
 effects on prolactin release
in vitro, 1405
- Leucine,
 incorporation into proteins in liver,
 effect of ethanol, 457
- Leucine(contd.)
 incorporation into protein in liver,
 brain and kidney, effect of
 fusidic acid, 2058
 protection against melphalan
 cytotoxicity, 2865
- Leucyl- β -naphthylamidase,
 in liver plasma membrane, inhibition
 by RMI 12330A, 640
- Leukemia L1210 bearing mice,
 stathmokinetic and therapeutic
 effects of maytansine, 1973
- Leukemia cells,
 L1210,
 effect of 5-azacytidine on RNA
 and DNA synthesis in vivo, 745
 cell-surface alterations produced
 by Lymphosarcin, 1975
 cytotoxicity of 5-nitro-2'-
 deoxyuridine by inhibition of
 thymidylate synthetase, 2663
 melphalan transport and
 cytotoxicity, 2865
 effects of methotrexate- γ -
 dipeptides, 1821
 potentiation by 2'-deoxycoform-
 ycin on inhibitory effect of
 xylosyladenine on nuclear RNA
 synthesis, 2543
 role of isocyanates in the action
 of therapeutic nitrosoureas, 1359
- L5178Y,
 effect of 9- α -D-arabinofuranosyl-
 adenine on nucleic acid
 metabolism in, 1659
 effect of hypoxanthine on growth
 inhibition by 5-fluorouracil, 2979

Leukemia cells,

L5178Y(contd.)

metabolism of 5-amino-1- β -D-
ribofuranosyl-imidazole-4-
carboxamide and analogues to
5'-triphosphates, 709
procarbazine uptake in vitro, 1883

L5178Y/AR, effect of maleimide on

L-asparagine metabolism, 151

P388,

anthracycline-resistant sublines,
uptake of adriamycin and dauno-
rubicin, 2123
stathmokinetic and therapeutic
effects of maytansine, 1973

Lewis lung carcinoma,

effect of maleimide, 151

Lidocaine,

action on heart sarcolemma, 1281
affinity for muscarinic receptor,
2039

Lidocaine - zinc complexes,

action on histamine release from
isolated mast cells, 243

Ligand techniques,

analysis of cytidine deaminase and
tetrahydrouridine interactions, 53

Lipid - protein interactions,

in mitochondria, effects of general
anaesthetics, 2835

Lipids,

biosynthesis and absorption, effects
of amphetamine and fenfluramine,
1987

in liver,

effect of di-2-ethylhexyl phthalate
2283

Lipids,

in liver(contd.)

effect of α -mono-p-myristyloxy-
 α^1 -methyl-cinnamoyl glycerol,
2631, 2637

metabolism in liver,

effects of adenosine, 1341
morphine-treated rats, 1779

in serum, effect of α -mono-p-

myristyloxy- α^1 -methylcinnamoyl
glycerol, 2631, 2637

Lipidosis,

induced by amphiphilic cationic
drugs, 1103

Lipid peroxidation,

carbon tetrachloride-stimulated,
correlation with ethane
expiration, 563

role of cytochrome P-450, 1983

in liver microsomes, induction of
red cell damage, 437

effect on liver mitochondrial
monoamine oxidase, 805

in liver, spleen and lungs, effect
of adjuvant- or carrageenin-
induced inflammation, 531

Lipid peroxidation inhibitors,

effect on prostaglandin biosynthesis
in brain, 213

Lipolysis,

activity of cis- β -carboxyacryl-
amidine, 279

in adipose tissue, effect of
cycloheximide, 1577

effect of cannabinoids, 407

in fat cells,

effect of acetaldehyde, 2559

- Lipolysis,**
 in fat cells(contd.)
 effects of adrenergic agonists and
 α -blocking agents, 2305
 effect of p-myristyloxy- α -methyl-
 cinnamic acid and its α -mono-
 glyceride, 2631, 2637
- Lipophilicity,**
 role in determining type I microsomal
 P-450-substrate binding, 783
- Lipoprotein lipase,**
 effect of a contraceptive steroid
 combination on serum activation,
 795
- Liposome-encapsulated anti-tumour drugs,**
 pharmacokinetics, 21
- Liposomes,**
 chlorpromazine binding, 2721
- Lithium,**
 effect on ATPases in brain, 132, 1049
 stimulation of glucose incorporation
 into glycogen in brain slices, 799
 transport from CSF, 813
- Liver blood flow,**
 differential effects of microsomal
 enzyme inducing agents, 2617
 effect of dimethylbiguanide, 789
- Liver cirrhosis,**
 effect on albumin binding of diazepam
 salicylic acid and warfarin, 2729
- Liver regeneration,**
 dimethylnitrosamine demethylase in
 liver microsomes, 2751
- Lung,**
 adrenaline catabolism in control,
 sensitized and anaphylactic
 guinea pig, 117
- Lung(contd.)**
 binding of polychlorinated biphenyl
 metabolites to microsomes, 585
 effects of bleomycin and Cu bleo-
 mycin on transglutaminase in, 1211
 cyclic nucleotide phosphodiesterases
 in, 89
 cyclic nucleotides in, effects of
 hypoxia, 911
 effect of diethyldithiocarbamate
 on enzymes in, 251
 N,N-dimethylaniline demethylation
 and N-oxidation during pregnancy,
 effects of dexamethasone, 1007
 disposition of 5-hydroxytryptamine,
 569
 drug absorption from, 381
 enlargement produced by butylated
 hydroxytoluene, involvement of
 cyclic nucleotides, 1671
 histamine accumulation and
 metabolism *in vivo*, 820
 induction of aryl hydrocarbon
 hydroxylase by 3-methylcholan-
 threne, sex differences, 2537
 lipid peroxidation in, effect of
 adjuvant or carrageenin-induced
 inflammation, 531
 reduction in release of histamine
 and slow reacting substance of
 anaphylaxis with increasing age,
 2119
 uptake and biotransformation of
 ibutanol and terbutaline, 301
- Lymphoblastoid cells RPMI 6410,**
 toxicity of arabinosylcytosine -
 3-deazauridine, 181

- Lymphocyte-mediated cytotoxicity, inhibition by adenosine derivatives, 1487
inhibition by 2-fluoroadenosine, 1731
- Lymphocyte plasma membrane, inhibition of acyltransferase by Δ^9 -tetrahydrocannabinol, 329
- Lymphocytes, cyclic AMP in, stimulation by endogenous adenosine, 2675
effect of hexachlorocyclohexane isomers on mitogenic response, 667
inhibition of lectin stimulation by mescaline, 2705
RMPI-1788, cytochrome P-450 in, 2659
- Lymphokines, prostaglandins and release of, 1611
- Lymphoma cells, S-49, cytotoxicity of 5-nitro-2'-deoxyuridine by inhibition of thymidylate synthetase, 2663
- Lymphosarcoma, characterization of cell-surface alterations, 1975
- Lysergic acid diethylamide, antiepileptic action and effect on monoamine metabolism, 2821
association with 6-methylpurine in aqueous solution, 595
- Lysolecithin, inhibition of mitochondrial monoamine oxidase, 1287
release of histamine from mast cells, 2115
in serum, effect on sensitivity of heart to acetylcholine, 2793
- Lysophosphatidylcholine acyltransferase, inhibition by Δ^9 -tetrahydrocannabinol, 329
- Lysosomes, fibroblasts, uptake and accumulation of aminoglycoside antibiotics, 415
liver, effect of carbenoxolone on enzyme release, 2461
tumour cells, effect of anti-tumour agents, 1381
- α -Macroglobulin, in plasma, effect of clofibrate, 125
- Macrophages, ATPases in plasma membranes, 1561
inhibition of phagocytosis by local anaesthetics, 2447
monoamine oxidase activity at rest and during phagocytosis, 1909
- Magnesium, effect on angiotensin II binding to isolated renal glomeruli, 517
depleted hepatic mitochondria, magnesium-phenethylbiguanide competition in, 2263
- Malate-aspartate shuttle inhibitors, effect on ethanol oxidation by isolated hepatocytes, 7
- Malate dehydrogenase, in brain cortex subfractions, effect of bamethan, 2278
in heart, inhibition by hexachlorophene, 2947
in muscle during ischaemia, effect of Mercurescan, 359
- Malathion,

- Malathion,
 in vitro degradation by mouse
 liver, 2975
 effect of parathion and related
 insecticides on potentiation of
 toxicity, 2049
- Malathion B esterase,
 in liver, effect of PNP-containing
 insecticides, 2049
- Maleimide,
 interaction with L-asparaginase
 from *E.coli*, 824
 interaction with L-asparagine
 metabolism in mice, 151
- Mammary tissue,
 development of aryl hydrocarbon
 hydroxylase, 2968
- Man,
 specificity of skin epoxide
 hydratase, 17
- Marcaine,
 effect on protein and RNA synthesis
 in muscle, 1753
- Mast cells,
 histamine release,
 action of zinc-lidocaine complexes, 243
 effect of flufenamic acid and
 calcium ions, 1385
 phospholipase A, 2115
 relation of ATPases to, 1561
- Maytansine,
 stathmokinetic and therapeutic
 effects in mice bearing P388 and
 L1210 leukemias, 1973
- Mazindol,
 effect on synaptosomal monoamine
- Mazindol (contd.)
 uptake, 1843
- Meclofenamic acid,
 binding to glucocorticoid receptors
 in vitro, 1187
- Mefenamic acid,
 effect on degradation of synovial
 fluid, 535
 inhibition of superoxide anion
 production, 777
- Melphalan,
 transport and cytotoxicity in
 L1210 cells, 2865
- Memory,
 modulation by neurohypophyseal
 principles, 1793
- 3-Mercaptopropionic acid,
 measurement of changes in cerebral
 glutamate and GABA metabolism
 prior to convulsions, 246
 effect of methionine sulfoximine
 on seizure threshold, 2972
- 6-Mercaptopurine,
 enhanced toxicity with endotoxin,
 2507
- β -Mercaptopyruvate,
 inhibition of glutamate decarbox-
 ylase in brain, 2567
- Mercurascan,
 effect on enzymes of striated
 muscle in ischaemia, 359
- Mercury,
 effect on warfarin interaction with
 human serum albumin, 2957
- Mercury vapour,
 role of catalase in oxidation of,
 1373

- Mescaline,**
 association with 6-methylpurine in aqueous solution, 595
 inhibition of lectin stimulation of murine lymphocytes, 2705
- Metabolism-mediated cytotoxicity,**
 chemical carcinogens and non-carcinogens, 1849
- Metallothioneins,**
 effect of cadmium ingestion on formation in rat liver cytosol, 2001
 in cadmium-resistant fibroblast cells, 647
 in seabirds, 822
 synthesis in kidney, induction by parenteral cadmium-thionein, 1163
- Metanephrine,**
 conjugates in rabbit fetal tissues, 451
- Metaraminol,**
 uptake by platelets, effect of tranlycypromine, 1197
- Methadone,**
 inhibition of biosynthetic processes in testicular cells, 123
- Methanesulfonyl fluoride,**
 reactivity towards acetylcholinesterase from fish and rat brain, 2693
- Methaqualone,**
 distribution in rat brain, 1300
- Methemoglobin reductase,**
 reduction of 2,6-dichlorophenol indophenol, effects of 2-aryl-1,3-indandiones, 943
- Methimazole,**
 uptake by sheep thyroid slices, 685
- Methionine,**
 intestinal transport, effect of chlorpromazine, 2781
- Methionine adenosyl-transferase,**
 in liver, effect of D-galactosamine, 1431
- Methionine-enkephalin,**
 microinjection into nucleus reticularis gigantocellularis, effect on normetanephrine in spinal cord, 2756
- Methionine sulfoximine,**
 effect on brain tRNA methyltransferases *in vitro* and tRNA methylation *in vivo*, 2655
 effect on threshold of seizures induced by 3-mercaptopropionic acid or pentylene-tetrazol, 2972
- Methotrexate,**
 effect on plasma disposition of antipyrine and biliary excretion of phenolphthalein, 1413
- Methotrexate- γ -dipeptides,**
 effects on L1210 cells, 1821
- Methoxychlor and metabolites,**
 estrogenic activities, role of hepatic mono-oxygenase, 2417
- 1-(p-Methoxybenzyl)-6,7-methylene-dioxy-isoquinoline,**
 effect on mitochondrial respiration, 1505
- 3-Methoxy-4-hydroxyphenylethylamine,**
 deamination by human brain monoamine oxidase, 1606
- 3-Methoxy-4-hydroxyphenylglycol sulfate,**
 in brain, effect of amphetamine, 1774

- 3-Methoxy-4-hydroxyphenylglycol
sulfate(contd.)
in brain, effect of piribedil, 2803
- Methyl-acceptor proteins,
subcellular distribution in human
platelets and erythrocytes, 679
- 7-Methylbenz(a)anthracene 5,6-oxide,
specificity of skin epoxide
hydratase, 17
- N-Methylcarbamate insecticides,
inhibition of kynurenine formamidase,
relation to teratogenesis, 2611
- 3-Methylcholanthrene,
effect on biphenyl metabolism in
hepatocytes, 1899
effect on carbon tetrachloride-
stimulated lipid peroxidation and
lipid expiration, 563
effect on covalent binding of poly-
chlorinated biphenyls to
microsomes, 585
effect on glutathione S-transferase
in liver, intestine and kidney,
1284
effect on glutathione S-transferase
in rat liver cytosol, 2487
hemopexin and hydroxylase induction,
1665
effect on N-hydroxylation of
N-3-fluorenylacetamide, 1581
induction of aldehyde dehydrogenases
in liver, 2343
induction of aryl hydrocarbon
hydroxylase in liver, lung and
kidney, sex differences, 2537
induction of ethoxyresorufin
metabolism in hepatocytes, 1533,
- 3-Methylcholanthrene(contd.)
1539
induction of liver microsomal drug
metabolism, pituitary
involvement, 1125
induction of mixed function oxygen-
ases and cyclic AMP-mediated
hypertrophy, 219
effect on microsomal cholesterol
7 α -hydroxylase activity, 1055
effect on phospholipid metabolism
in liver, 2595
plus 1,2,4-tribromobenzene,
induction of xenobiotic metabol-
ism, 361
time course of induction of aryl
hydrocarbon hydroxylase in liver
nuclei and microsomes, 2103
- 3-Methylcholanthrene 11, 12-oxide,
specificity of skin epoxide
hydratase, 17
- 2- and 3'-Methyl-4-dimethylaminoazo-
benzene,
toxicity in fibroblast/hepatocyte
test system, 1849
- Methyldithiocarbazinate,
effect on transmitter synthesis, 475
- α -Methyl-DOPA,
inhibition of DOPA decarboxylation,
1289
- Methylene blue,
inhibition of paracetamol induced
liver injury, 425
- Methylenecyclopropylacetate,
effect on CoA-requiring reactions
in isolated mitochondria, 2879
- Methylenedioxyamphetamines,

- Methylenedioxyamphetamines,
 metabolism in the rat, 1503
 effects on uptake and release of
 noradrenaline, 1497
- 1,1-[(Methylethanediyldiene)-dinitrilo]
 bis-(3-aminoguanidine),
 inhibition of diamine oxidase, 1625
- 1,1'-[(Methylethanediyldiene)-
 dinitrilo]-diguanidine,
 inhibition of diamine oxidase, 1625
- Methylglyoxal-bis(guanylhyazone),
 immunosuppressive effects, antagonism
 by spermidine, 1555
- 4-Methyl-2-guanidinoquinazoline,
 complement inhibition in vivo, 1873
- Methyl,3-isobutylxanthine,
 effect on cyclic AMP in liver and
 on bile flow, 2413
- Methylmercaptoimidazole,
 effect on adenyl cyclase and
 phospholipogenesis in thyroid, 487
- Methylmercury,
 biliary excretion, interrelationship
 with non-protein bound thiols, 2203
- Methylmercury chloride,
 nature of a methylmercury complex
 with a low molecular weight in
 liver cytosol, 1700
- α -Methyl noradrenaline,
 effect on prostaglandin biosynthesis
 in brain, 213
- N-Methyl-4-piperidylbenzilate,
 antimuscarinic activity in vivo and
in vitro, 1117
- N-Methyl-N-propargyl-(2-furyl-1-methyl)
 ethylammonium HCl,
 inhibition of MAO type B, 1739
- 6-Methylpurine,
 association with psychomimetic
 compounds in aqueous solution, 595
- o-Methyl red,
 binding to human serum albumin, 937
- 5-Methyltetrahydrofolate,
 accumulation in isolated liver cells
 stimulation by ethanol, 2069
- 4-Methylumbelliferone,
 glucuronidation in hepatocytes,
 effect of ethanol, 2583
- Methyluric derivatives,
 of theophylline and caffeine,
 pharmacology, 1545
- Methylxanthines,
 effect on high energy phosphate
 content in frog skeletal muscle,
 2965
- effect on phosphodiesterase, 5'-
 nucleotidase and adenosine
 deaminase in kidney, 2845
- Methylxanthine metabolites,
 pharmacology, 1545
- Methysergide,
 inhibition of platelet aggregation
 and release, effect of
 arachidonic acid, 2131
- Metiamide,
 inhibition of human polymorpo-
 nuclear leukocyte derived
 histaminase, 2562
- Metmyoglobin reductase,
 beef heart, inhibition by
 adriamycin, 2079
- Metoprine,
 inhibition of histamine N-methyl-
 transferase in vivo and in vitro,

- Metoprine(contd.)
1507
- Metronidazole,
electrolytically reduced, interaction
with DNA, 2089
hepatic metabolism and excretion in
the rat, 2247
- Metyrapone,
effect on halothane reaction with
cytochrome P-450, 387
interaction with adrenal microsomal
cytochrome P-450, 2147
- Miniature endplate potentials,
frog neuromuscular junction, effect
of 2,4-dinitrophenol, 2199
- Mitochondria,
heart, action of general anaesthetics
2835
liver,
effect of chronic ethanol treat-
ment, 2337
effect of di-(2-ethylhexyl)-
phthalate, 2683
effect of ethanol on protein
synthesis and turnover, 457
effects of β -flavaspidic acid-N-
methylglucamate, 2425
effect of halothane and steroids
on respiration, 2959
interaction of chlorgyline with
membrane constituents, 2327
effect of lipid peroxidation on
monoamine oxidase in, 805
effect of 1-(p-methoxybenzyl)-6,7
methylenedioxyisoquinoline on
respiration, 1505
effect of polyflavane Pl3 on
- Mitochondria,
liver(contd.)
aging and transition temperature,
1005
effect of ticlopidine on energy
transduction, 2099
- Mitogenic response,
of lymphocytes, effects of hexa-
chlorocyclohexane isomers, 667
- Mitomycin c,
toxicity in fibroblast/hepatocyte
test system, 1849
- Mixed function oxidase,
effects of diethyl maleate, 1098
in hepatocytes, dichloro-p-nitro-
anisole O-demethylase assay, 1129
NADPH kinetic estimations during
reactions, 965, 969, 979
- Mn²⁺,
effect on heart sarcolemmal bound
enzymes and calcium binding, 2605
- Molt-4F cells,
ribonucleotide reductase in, 2297
- Moniliformin,
toxic action of, 483
- Monoamine dehydrogenase,
in brain, effect of monoamine
oxidase inhibitors, 112
- Monoamine oxidase,
A and B forms, usefulness of
concept, 97
in brain,
effect of hashish components, 2513
human, deamination of dopamine
and its 3-O-methylated derivative,
1606
inhibition by isogentisin and

Monoamine oxidase,

in brain(contd.)

its 3-O-glucoside, 2075

inhibition by N-phenacyl-cyclopropylamine in vitro and in vivo, 2255

effect of inhibitors, 112

in mitochondrial subfractions, inhibition by clorgyline and Lilly 51641, 2455

modulation in vitro by thyroid hormones, 751effect of prostaglandins A₁, E₂ and F_{2α}, 2961effect of reserpine in vivo, 1985

in hamster tissues, 959

in heart,

inhibition by N-phenacyl-cyclopropylamine in vitro and in vivo, 2255

phenylethylamine deamination by, 2374

in liver,

inhibition by lysolecithin, 1287

inhibition by N-phenacyl-cyclopropylamine in vitro and in vivo, 2255

effect of mitochondrial lipid peroxidation, 805

phenylethylamine deamination by, 2374

effect of prostaglandins A₁, E₂ and F_{2α}, 2961effect of reserpine in vivo, 1985
substrate-selective activation by oxygen, 1995

in macrophages at rest and during

Monoamine oxidase(contd.)

phagocytosis, 1909

in platelets, effect of tranylcypromine, 1197

predominance of B form in cultured vascular intimal endothelial cells, 2371

N-substituted cyclopropylamines as inhibitors of A and B forms, 1767
substrate-selective, inhibitor, tissue, species and functional differences, 1889

effect of tricyclic antidepressants, 257

in vas deferens, phenylethylamine deamination by, 2374

Monoamine oxidase type B,

in brain,

loss of selectivity of deprenil inhibition after repeated treatment, 801

pig, purification and properties, 2737

deprenyl-derived selective inhibitors, 1739

distribution in human and rat tissues in comparison with benzylamine oxidase, 1857

in heart mitochondria, possible heterogeneity, 923

Monoamine oxidase inhibitors,

effect on monoamine oxidation in brain, 112

effect on prostaglandin biosynthesis in brain, 213

Monoamines,

in brain, changes after ethanolamine

Monoamines (contd.)

ethanolamine-Q-sulphate induced
elevation of GABA, 1827
metabolism in cat brain, effects of
pentylene-tetrazol and
trimethadone, 1815
synaptosomal uptake,
inhibition by bicyclo-octanes,
2907
effect of mazindol, 1843

 α -Mono-p-myristyloxy- α' -methylcinnamoyl

glycerol,
hypolipidemic effect in rats, 2631

Monooxygenase,

in Harderian gland, 575
in liver microsomes, pituitary
involvement in sexual different-
iation and induction, 1125

Morphine,

effect on hepatic lipid metabolism,
1779
effect on isoenzymes of pyruvate
kinase and tyrosine aminotrans-
ferase in rat, 1347
effect of maternal administration on
fetal and neonatal liver
tyrosine aminotransferase, 249
microinjection into nucleus reticul-
aris gigantocellularis, effect on
normetanephrine in spinal cord,
2756
effect of neurohypophyseal hormones
on dependence, 1793

Mucins,

gastric, effect of drugs and
secretogens on biosynthesis of,
2775

Mucopolysaccharides,

effect on activated factor X, 609
Muramyl-dipeptide,
past, present and future, 2183
Muscarinic receptor,
affinity of some amino esters of
benzilic acid, 1117
neuroblastoma cells, role of ions
and effect of local anaesthetics
on cyclic GMP formation, 2039

Muscimol,

effect on diazepam binding in brain,
2745

Muscle,

skeletal,
effect of clofibrate on glycol-
ytic metabolites and ATP in, 244
frog, effect of methylxanthines
and elevated potassium on high
energy phosphates in, 2965
effects of Marcaine on protein
and RNA synthesis, 1753
effect of Mercurascan on enzymes
during ischaemia, 359
tracheal, correlation between
relaxation and inhibition of
phosphodiesterase activity, 254

Mutagenicity,

of N-hydroxy-2-acetylaminofluorene,
2399

Myeloma immunoglobulin,

interaction with acetylsalicylic
acid, 1043

Myocardial cells,

effects of allopurinol on purine
metabolism, 1297

Myoglobin,

- Myoglobin,
 reduction in heart, effect of
 adriamycin, 2079
- p-Myristyloxy- α -methylcinnamic acid,
 antilipolytic effect, 2631, 2637
- NADH,
 effect on cholesterol 7 α -hydroxylase
 in liver microsomes, 1055
 involvement in dry hydroxylation
 reactions, 969, 979
- NADPH,
 kinetic estimations during mixed
 function oxidase reactions, 965
 influence of NADH, 969, 979
- Naphthylmethoxyethanolamines,
 β -receptor binding and inhibition of
 adenylate cyclase, 1455
- Neostigmine,
 relationship between systemic effects
 and brain acetylcholinesterase
 activity, 203
- Neuroblastoma cells,
 Cl300, ornithine decarboxylase
 activity and growth of, 717
- NlE-115,
 inhibition of monoamine oxidase by
 N-substituted cyclopropylamines,
 1767
 muscarinic receptor-mediated
 cyclic GMP formation, 2039
- TCX11, TCX17, neurotransmitter
 modulation of PGE₁-stimulated
 increase in cyclic AMP, 1167, 1173
- Neurohypophyseal principles,
 modulation of memory processes, 1793
- Neuroleptics,
 effect on dopamine accumulation by
 striatal synaptosomes, 1063
- Neuroleptic receptors,
 spiperone ligand, 307, 317, 323
 in striatum, effect of α -amino-
 tetralin derivatives on
 haloperidol binding, 1417
- Neuromuscular junction,
 effect of 2,4-dinitrophenol on
 transmitter release, 2199
- Neurophysins,
 radioimmunoassay, tool for
 posterior pituitary investigat-
 ions, 1009
- Neurotransmitters,
 in brain regions after ethanolamine-
 Q-sulphate administration, 1827
 function of trace amines, 621
 modulation of PGE₁-stimulated
 increase in cyclic AMP in
 cultured neuronal cells, 1167, 1173
- Ni²⁺,
 effect on heart sarcolemmal bound
 enzymes and calcium binding, 2605
- Nialamide,
 effect on monoamine oxidation in
 rat brain, 112
- Nicotine,
 induced release of catecholamines
 from hippocampus and striatum,
 2667
 effect on 1-phosphatidylinositol-4-
 phosphate and 1-phosphatidyl-
 inositol-3,4-bisphosphate synth-
 esis and metabolism in brain,
 2519

- Niflumic acid,
effect on degradation of synovial fluid, 535
- Nitrazepam,
binding to human serum albumin, microcalorimetric studies, 2787
- p-Nitrobenzylthioguanosine,
inhibition of adenosine uptake in human erythrocytes, 2191
- Nitrobenzylthioinosate,
inhibition of nucleoside uptake in HeLa cells, 1303
- 5-Nitro-2'-deoxyuridine,
cytotoxicity by in vivo inhibition of thymidylate synthetase, 2663
- 5-Nitrofuran,
inhibitory action against nucleic acid synthesis in Trypanosoma cruzi, 2815
- p-Nitrophenol,
containing insecticides, effect on esterase inhibition and potentiation of malathion toxicity, 2049
- p-Nitrophenyl iso-propyl methylphosphonate,
rate of decomposition of phosphorylated oximes, 857
- p-Nitrophenyl phosphatase,
in brain, effect of ethanol on kinetics with alkali ions, 1353
- 2-Nitropropane,
nitrate formation by microsomal monooxygenases, 2301
- 4-Nitroquinoline N-oxide,
toxicity in fibroblast/hepatocyte test system, 1849
- Nitrosomethylurea,
effect on lysosomes in tumours, 1381
- Nitrosoureas,
mechanism of action, 77
role of isocyanates in action of, 1359
- Noradrenaline,
effect on ATP in fibroblasts, 373
effect on ATPase in synaptosomes, 2015
in brain,
effect of dopamine agonists, correlation with antiepileptic action, 2821
effect of ethanolamine-O-sulphate induced elevation of GABA, 1827
effect on cyclic AMP accumulation in striatum, 2919
inhibition of PGE₁-sensitive adenylyl cyclase in cultured neuronal cells, 1167, 1173
effect on lipolysis in isolated fat cells of rat, guinea pig, dog and man, 2305
mediated accumulation of ventricular cyclic AMP, effect of adenosine, 187
nicotine-induced release from striatum, 2667
output from spleen, effect of tetraethylammonium on inhibitory effect of bretylium, 1512
effect on prostaglandin biosynthesis in brain, 213
radioenzymatic assay, 1519
release from brain tissue by fenfluramine and N-ethylamphet-

Noradrenaline(contd.)

N-ethylamphetamine, effect of
 pargyline, 1631
 release from brain tissue, effect
 of metabolic inhibitors, 511
 in Schistosoma mansoni, effect of
 disulfiram, 817
 synaptosomal uptake,
 inhibition by bicyclo-octanes,
 2907
 effect of mazindol, 1843
 effect of Org 6582, 1023
 effect of racemic, (S)- and (R)-
 methylenedioxyamphetamine, 1497
 uptake, release and turnover rate in
 heart, effect of pyrovalerone,
 1693
 Noradrenaline + atenolol,
 effect on glycolysis and lactate
 production in heart, 2901
 Noradrenaline N-methyltransferase,
 inhibition by S-adenosylhomocysteine
 analogues, 1981
 Noradrenaline receptor,
 coupled cyclic AMP generating system,
 modification by antidepressant
 drugs, 257
 Noradrenergic neurons,
 in brain, mechanism of piritradil
 action, 2803
 Normetanephrine,
 in spinal cord, effect of micro-
 injection of opioids into nucleus
 reticularis gigantocellularis,
 2756
 Nucleoside catabolizing enzymes,
 in primary rabbit kidney cells and

Nucleoside catabolizing enzymes(contd.)

human skin fibroblasts, 1421
 Nucleosides,
 uptake in HeLa cells, inhibition by
 nitrobenzylthioinosate, 1303
 5'-Nucleotidase,
 in kidney, effect of methylxanthines
 and other drugs, 2845
 Nucleus reticularis gigantocellularis,
 microinjection of opioids, effect on
 normetanephrine in spinal cord,
 2756
 Obidoxime,
 rate of decomposition of phosphyl-
 ated oximes, 857
 Octopamine,
 function in neurotransmission, 621
 Oleate ion,
 effect on warfarin binding with
 human serum albumin, 739
 Olefin,
 epoxidation by cytochrome P-450,
 secondary deuterium isotope
 effects, 1441
 Oleoyl CoA:l-acyl-glycerophospho-
 choline acyltransferase,
 in liver, effect of morphine, 1779
 Olivetol,
 inhibition of prostaglandin
 biosynthesis by derivatives of,
 607
 Opiate receptors,
 opioid activity of a benzomorphan
 lacking an oxygen atom, 1033
 in vas deferens, effect of enkeph-
 alin and endorphin analogues, 2275

- Opoids,
 microinjection into nucleus reticularis gigantocellularis, effect on normetanephrine in spinal cord, 2756
- Oral contraceptives,
 possible mediation of side effects via an estrogen receptor in liver, 2571
- Org, 6582,
 effect on monoamine uptake in vitro, 1023
- Organophosphates,
 and oximes, inhibition of acetylcholinesterase, 857
- Organophosphorus ester-induced delayed neurotoxicity,
 role of acid phosphatase, 2055
- Organophosphorus insecticides,
 inhibition of kynurenine formamidase, relation to teratogenesis, 2611
- Ornithine decarboxylase,
 in liver, effect of phenobarbital and 3-methylcholanthrene, 219
 in neuroblastoma cells, 717
 in uterus, effect of methoxychlor and metabolites, 2417
- Orosomucoid protein,
 in serum, effect on quinidine binding, 871
- Orotate phosphoribosyltransferase,
 in brain, inhibition by barbituric acid and its derivatives, 655
- Orotic acid,
 uptake into RNA in liver, effect of halothane, 2187
- Orotidylate decarboxylase,
 in brain, effect of barbituric acid and its derivatives, 655
- Ouabain,
 effect on amphetamine- and potassium-induced release of biogenic amines from brain, 511
 binding to Na^+, K^+ -ATPase, effect of phospholipase A treatment, 225
 influence on negative inotropic effect of adriamycin, 985
- Ovaries,
 enzymatic hydrolysis of phosphodiester, 733
- β -Oxidation,
 inhibition by hypoglycin metabolites and pent-4-enoic acid, in vitro, 2879
in vivo, 2891
- Oxidative phosphorylation,
 liver mitochondria, guinea fowl, effect of aflatoxin B_1 , 547
- Oxime-amide rearrangement enzymes,
 in liver subfractions, 1919
- Oximes,
 phosphorylated, rates of decomposition and acetylcholinesterase inhibition, 857
- α -Oxoglutarate,
 in brain, effects of ethanol and thiamine deficiency, 1259
- 1,1'-Oxydimethylene bis(4-tert-butylpyridinium chloride),
 effect on reactivation of cholinesterase by oximes, 757
- Oxygen,
 activation of monoamine oxidase

Oxygen(contd.)

in liver mitochondria, 1995
consumption by liver microsomes, 355
excited states in biology, 1805
effect on halothane reaction with
cytochrome P-450, 387

Oxygen radicals,

involvement in xanthine oxidase
induced foot edema in rats, 1397

Oxygen toxicity,

in rats, effects of diethyldithio-
carbamate, 251

Oxypertine,

effect on prostaglandin biosynthesis
in brain, 213

Oxyphenylbutazone,

effect on DNA and RNA in inflammation
353
inhibition of superoxide anion
production, 777

Oxytocin,

modulation of memory processes, 1793
radioimmunoassay, 1009

Pancreas,

effect of α -ketocarboxylic acids on
insulin secretion, 1321
effect of thiamine deficiency on
protein synthesis, 1677

Pancreatic islets,

effect of ethanol and *n*-butanol on
alloxan inhibition of glucose-
induced insulin release, 1749

Papaverine,

inhibition of human myometrial
cyclic AMP phosphodiesterase,
1292

Papaverine(contd.)

phosphodiesterase inhibition and
tracheal relaxation, 729
effect on porphyrin biosynthesis,
2439

Paracetamol,

liver injury and prevention, 425
metabolism and toxicity in isolated
hepatocytes from rat and mouse,
2859
effect on prostaglandin synthetase
in seminal vesicle microsomes, 393

Paraoxon,

effect on esterases and malathion
toxicity, 2049
rate of decomposition of phosphyl-
ated oximes, 857

Paraquat,

binding to melanin and cartilage
in vivo, 1721

Parathion,

effect on esterase inhibition and
potentiation of malathion
toxicity, 2049
inactivation of microsomal oxidases
during metabolism of, 293

Pargyline,

effect on monoamine oxidation in
rat brain, 112
effect on release of catecholamines
by fenfluramine and *N*-ethyl-
amphetamine, 1631

Parkinson's disease,

phenylethylamine in brain and
urine, 1707

D-Penicillamine,

effect on biliary excretion of

- D-Penicillamine(contd.)
methylmercury, 2203
- D-Penicillamine disulphide - copper,
inhibition of denaturation of human
gamma globulin, 469
- Pentachlorocyclopentadiene,
mutagenicity due to metabolic
activation, 2927
- Pentamidine,
complement inhibition in vivo, 1873
- 4-Pentenoic acid,
effect on insulin secretion from
perfused rat pancreas, 1321
mechanisms of metabolic disturbances,
in vitro, 2879
in vivo, 2891
- Pentobarbital,
differences in disappearance rate in
rats bearing two lines of walker
carcinoma 256, 811
effect on glutamate uptake by
cultured glial cells, 2955
induced reduction of pyridine
nucleotide measured by surface
fluorometry in perfused heart, 1510
sleeping time, effect of 6-sulfon-
anilamideindazole induced
arthritis, 2395
- Pentosane polisulphoester,
effect on activated factor X, 609
- Pentrane,
action in mitochondria, 2835
- Pentylene tetrazol,
effect of methionine sulfoximine on
seizure threshold, 2972
effect on monoamine metabolism in
cat brain, 1815
- Peptidyl dipeptidase,
hydrolysis of enkephalin, 843
- Perhexiline,
induced lipolysis, 1103
- Peritoneal exudate cells,
inhibition of superoxide anion
production by anti-inflammatory
drugs, 777
- Peroxidation,
in adipocytes, effect of insulin
and sulfhydryl reagents, 2589
- Peroxisomes,
liver, effect of di-(2-ethylhexyl)-
phthalate on β -oxidations, 2683
- Phagocytosis,
monoamine oxidase activity of
macrophages, 1909
in peritoneal macrophages, inhibi-
tion by local anaesthetics, 2447
- Phenacetin N-O-glucuronide,
formation and breakdown in liver
microsomes, 1641
- N-Phenacyl-cyclopropylamines,
inhibition of monoamine oxidase, 1767
- Phenanthrene,
hepatic microsomal metabolism, 1865
- Phenanthrene 9,10-oxide,
specificity of skin epoxide
hydratase, 17
- Phenylbiguanide,
effect on Mg^{2+} -depleted hepatic
mitochondria, 2263
- Phenobarbital,
effect on carbon tetrachloride-
stimulated lipid peroxidation
and ethane expiration, 563
effect on covalent binding of

Phenobarbital(contd.)

polychlorinated biphenyls to
 microsomes, 585
 cyclic AMP-mediated hypertrophy and
 induction of mixed function
 oxygenases, 219
 effect on desmethylinipramine
 kinetics in the rat, 1521
 effect on N,N-dimethylaniline N-
 oxidase in liver microsomes, 601
 effect on ethinyl estradiol alterat-
 ion in liver cytochrome P-450, 29
 effect on fenclorac action on hepatic
 microsomal mono-oxygenases in
 adjuvant diseased rats, 1771
 effect on glial cell respiration, 903
 effect on glutathione S-transferase
 in rat liver cytosol, 2487
 effect on glutathione S-transferase
 in liver, intestine and kidney,
 1284
 induced cirrhosis, impaired drug
 metabolism, 2577
 induced increase in cytochrome b₅
 reductase in liver microsomes,
 367
 induction of drug mono-oxygenase
 in Harderian gland, 575
 induction of liver aldehyde
 dehydrogenases, 2343
 effect on phospholipid metabolism
 in liver, 2595
 plus 1,2,4-tribromobenzene, induction
 of xenobiotic metabolism, 361
 effect on pyrimidine ribotide
 synthesis in brain, 655
 effect on superoxide anion production

Phenobarbital(contd.)

by liver microsomes, 355
 time course of induction of aryl
 hydrocarbon hydroxylase in liver
 nuclei and microsomes, 2103
 Phenobarbitone,
 effect on biphenyl metabolism in
 hepatocytes, 1899
 effect on liver blood flow, 2617
 prolonged treatment, effect on
 hepatic xenobiotic metabolism
 and urinary D-glucuronic acid
 excretion, 2357
 Phenol oxidase,
 in Schistosoma mansoni, effect of
 disulfiram, 817
 Phenolphthalein,
 biliary excretion, effect of
 anti-cancer drugs, 1413
 glucuronidation in hepatocytes,
 effect of ethanol, 2583
 Phenothiazines,
 hydroxylated derivatives, inotropic
 action, 995
 Phenoxybenzamine,
 inhibition of Na^+, K^+ -ATPase in vivo
 and in vitro, 2109
 Phenoxypropylamines,
 antibodies of, 1527
 Phentolamine,
 effect on lipolysis in isolated fat
 cells of rat, guinea pig, dog
 and man, 2305
 pre- and post-synaptic alpha
 blocking activity, 1879
 Phenylacetate esterase,
 in liver, effect of PNP-containing

- Phenylacetate esterase(contd.)
insecticides, 2049
- Phenylbutazone,
binding to glucocorticoid receptors
in vitro, 1187
effect on degradation of synovial
fluid, 535
effect of extracellular pH on
distribution and action of, 525
inhibition of platelet aggregation
and release, effect of arachidonic
acid, 2131
plasma half-life, effect of 6-sulfon-
anilamidoindazole-induced
erthritis, 2395
- N-(cis-2-Phenylcyclopentyl)azacyclo-
tridecan-2-imine hydrochloride,
inhibition of rat liver membrane-
bound enzymes, 641
- Phenylepinephrine,
effect on ATP in fibroblasts, 373
- Phenylethanalamines,
 β -receptor binding and inhibition of
adenylate cyclase, 1455
- Phenylethanalamine N-methyltransferase,
regulation of, 1895
- Phenylethylamines,
biological and medical significance,
1707
deamination by intimal endothelial
cells, 2371
deamination by multiple types of
monoamine oxidase, 2374
role in brain function, 1707
- Phenylmethanesulfonyl fluoride,
reactivity towards acetylcholinest-
erase from fish and rat brain, 2693
- Phenylmethoxyisopropylethanalamines,
 β -receptor binding and inhibition
of adenylate cyclase, 1455
- Phenyloxazoles,
influence of steric factors on
interaction with microsomal
oxidation, 2466
- Phenylthiazoles,
influence of steric factors on
interaction with microsomal
oxidation, 2466
- Phenytoin,
binding to human serum albumin, 937
effect on liver blood flow, 2617
- Pheochromocytoma cells,
activation of tyrosine-3-mono-
oxygenase by lasalocid, 673
- Phosphates,
high energy, in frog skeletal
muscle, effect of methylxanthines
and potassium, 2965
- Phosphatidylcholine,
synthesis in liver, effect of
inducers of microsomal drug
metabolism, 2595
- 1-Phosphatidylinositol-3,4-bisphos-
phate,
synthesis and metabolism in brain,
effect of nicotine, 2519
- 1-Phosphatidylinositol-4-phosphate,
synthesis and metabolism in brain,
effect of nicotine, 2519
- 6-Phosphogluconate,
in brain, effects of ethanol and
thiamine deficiency, 1259
- Phospholipase A,
release of histaminase from mast

- Phospholipase A(contd.)
- cells, 2115
 - treatment of Na^+, K^+ -ATPase, effect on partial reactions and ouabain binding, 225
- Phospholipid,
- activation of tryptophan hydroxylase in brain stem, 915
 - in liver, effect of di-2-ethylhexyl-phthalate, 2283
 - metabolism in liver, effect of inducers of microsomal drug-metabolizing enzymes, 2595
 - role in monoamine oxidase inhibition by hashish components, 2513
- Phospholipogenesis,
- in thyroid, effect of thionamides, 487
- Phosphoribosyl pyrophosphate,
- in Ehrlich ascites tumour cells, effect of 5'-deoxyadenosine, 2163
- Phosphorylated oximes,
- rate of decomposition and acetylcholinesterase inhibition, 857
- Phylloquinone,
- changes in urinary metabolites in man following warfarin treatment, 273
- Physostigmine,
- effect on acetylcholine in kainate-lesioned striatum, 2962
 - relationship between systemic effects and brain acetylcholinesterase activity, 203
- Phytohemagglutinin-P,
- treated lymphocytes, effect of hexachlorocyclohexane isomers, 667
- Pig,
- brain mitochondrial monoamine oxidase B, 2737
- Pilocarpine,
- effect on cyclic nucleotides in striatum and cerebellum, 2333
- Pimozide,
- subcellular distribution in brain regions, 323
 - uptake by dopaminergic areas of brain, displacement, 317
- Pineal gland,
- effect of calcium on induction of serotonin N-acetyltransferase, 2549
 - inhibition of hydroxyindole-O-methyltransferase by pyridoxal 5'-phosphate, 120
 - RNA synthesis during N-acetyltransferase induction, 551, 557
- Piribedil,
- mechanism of action on noradrenergic neurons in rat brain, 2803
- Pituitary,
- involvement in sexual differentiation and 3-methylcholanthrene induction of liver microsomal monooxygenases, 1125
 - radioimmunoassay of neurophysins, 1009
 - role in action of thyroxine on hepatic drug metabolism, 2027
- Pituitary hormones,
- in serum, role in effect of 2-Br- α -ergocryptine, 1713
- Placenta,
- effect of cholinergic drugs on

Placenta(contd.)

α -aminoisobutyric acid uptake, 285
human,
choline metabolism in, 1251
inhibition of choline acetyltrans-
ferase by halogeno-acetylcholines,
1331
kininases and converting enzyme
in, 2829

Platelet release reaction,

role of arachidonic acid, 2131

Platelets,

effects of adenosine-3',5'-diphos-
phate and coenzyme A on function,
1193

effect of β -adrenergic agonists on
thromboxane A₂ formation, 1603

aggregation, role of arachidonic
acid, 2131

inhibition of monoamine oxidase by
N-substituted cyclopropylamines,
1767

role in inflammation, 1611

subcellular distribution of protein
carboxymethylase and methyl-
acceptor proteins, 679

effect of ticlopidine on mitochon-
drial oxidative phosphorylation, 2099

effects of tranylecypromine on
monoamine oxidase in and amine
uptake, 1197

Platinum-pyrimidine blues,

reaction with biomacromolecules, 1571

Polychlorinated biphenyls,

covalent binding in vitro to
microsomal macrololecules, 585
induction of liver aldehyde

Polychlorinated biphenyls(contd.)

dehydrogenases, 2343

effect on phospholipid metabolism
in liver, 2595

Polyflavane Pl3,

protection of mitochondrial
function against ageing and
modification of transition
temperature, 1005

Polylysine,

induced histamine release, 487

Polymorphonuclear leukocytes,

effect of anti-inflammatory drugs
under different pH conditions, 525
derived histaminase activity,
inhibition by H-2 antagonists, 2562

Polyphosphoinositide,

metabolism in brain in vivo,
cholinergic stimulation, 1239

Porphyria,

activity of theophylline, 1729

Porphyrin,

biosynthesis in chick embryo liver
cells, effect of modulation of
intracellular cyclic AMP, 2439
in liver, effect of desferrioxamine,
865

Porphyrin-inducing activity,

of aliphatic mono- and diesters, 2431

Potassium,

effect on high energy phosphates in
frog skeletal muscle, 2965
induced release of amines from
brain, effect of metabolic
inhibitors, 511

induced release of catecholamines
from hippocampus and striatum,

Potassium(contd.)

2667

induced respiratory decline in glial cells, effect of phenobarbital, 903

Practolol,

effect on ATPase in synaptosomes, 2015

Prednisone,

effect on degradation of synovial fluid, 535
effect on taurine in heart, 2973

Pregnancy,

N,N-dimethylaniline demethylation and N-oxidation in pulmonary microsomes, effect of dexamethasone, 1007

Pregnanolone,

plus halothane, effect on mitochondrial respiration, 2959

Pressinamide,

effect on memory processes, 1793

Procaine,

affinity for muscarinic receptor, 2039
inhibition of phagocytosis in peritoneal macrophages, 2447

Procaine amide,

action on heart sarcolemma, 1281

Procarbazine,

uptake by L5178Y lymphocytes in vitro 1883

Procaterol,

metabolic responses in rats, 2531

Progesterone,

inhibition of human myometrial cyclic AMP phosphodiesterase, 1292
plus halothane, effect on mitochondria

Progesterone(contd.)

mitochondrial respiration, 2959

Progestin-estrogen combination,

effect on serum activation of lipoprotein lipase in rats, 795

Prolactin,

effect of lergotril and 13-hydroxy lergotril on release in vitro, 1405
in serum, effect of 2-Br- α -ergo-cryptine, 1713

Proline,

incorporation into collagen and non-collagen proteins in carrageenin granuloma, effect of CaEDTA, 1979

Promethazine,

effect on disposition of adrenaline in rabbit fetus, 445
inhibition of paracetamol induced liver injury, 425

effect on prostaglandin biosynthesis in brain, 213

Pronethalol,

inhibition of ATPase in synaptosomes 2015

Propargylglycine,

induced cystathioninuria in mice, 2807

Propranolol,

inhibition of ATPase in synaptosomes 2015

mechanism of action in hypertension, 1698

metabolism by liver microsomes, effect of cirrhosis, 2577

n-Propylnorapomorphine,

- n-Propylnorapomorphine,
antilepileptic action and effect on
monoamine metabolism, 2821
- Propylthiouracil,
effect on adenylate cyclase and
phospholipogenesis in thyroid, 487
effect on methimazole uptake by
thyroid slices, 685
- Prostaglandin,
biosynthesis in brain, effect of
biogenic amines and psychotropic
drugs, 213
biosynthesis and intrinsic function,
1515
effect of cannabinoids on metabolism
of, 1275
inhibition of biosynthesis by olivetol
derivatives formed under pyrolysis
of cannabidiol, 607
role in chronic inflammation, 1611
role of haptoglobin in inhibition
of synthesis, 613
effect of synthesis inhibitors on
anti-cancer activity of alkylating
agents in tumour and normal
tissue, 1389
- Prostaglandin A₁,
effect on monoamine oxidase in
liver and brain, 2961
- Prostaglandin D₂,
biosynthesis in small intestine,
inhibition by SL-573, 723
- Prostaglandin E₁,
effect on 5-hydroxytryptamine in
brain, stomach and intestine, 130
increased cyclic AMP levels in
neuroblastoma cells, neurotrans-
- Prostaglandin E₁ (contd.)
neurotransmitter modulation,
1167, 1173
inhibition of platelet aggregation
and release, effect of
arachidonic acid, 2131
- Prostaglandin E₂,
biosynthesis in small intestine,
inhibition by SL-573, 723
effect on monoamine oxidase in
liver and brain, 2961
- Prostaglandin E₂-9-reductase,
in kidney of spontaneously
hypertensive rats, 2363
- Prostaglandin F_{2α},
biosynthesis in small intestine,
inhibition by SL-573, 723
increased synthesis in renal papilla
of spontaneously hypertensive
rats, 2363
effect on monoamine oxidase in
liver and brain, 2961
- Prostaglandin I₂,
characteristics, 1515
- Prostaglandin 9-hydroxy dehydrogenase,
in rabbit tissues, 1839
- Prostaglandin 15-hydroxy dehydrogenase
in rabbit tissues, 1839
- Prostaglandin Δ13 reductase,
in rabbit tissues, 1839
- Prostaglandin synthetase,
in kidney microsomes, effect of
Shigella endotoxin, 807
effect of pyrazol-pyridine
derivatives, 2157
in seminal vesicle microsomes,
effect of 4-acetamidophenol, 293

- Prostaglandin system,
 in adipose tissue, interaction with
 anti-inflammatory steroids, 1409
- Prostate gland,
 effect of androgens on isoproterenol
 induced increase in cyclic AMP, 465
- Protamine,
 induced histamine release, 497
- Protein,
 cadmium and zinc binding in liver and
 kidney of Fulmarus glacialis, 822
 effect of fusidic acid on amino acid
 incorporation in vivo, 2058
 in plasma, effect of clofibrate, 125
 synthesis in brain, effect of
 thiamine deficiency, 1677
 synthesis in heart, kidney, pancreas
 and liver, effect of thiamine
 deficiency, 1677
 synthesis in HeLa S₃ cells, effect
 of ⁹-tetrahydrocannabinol, 1759
 synthesis in liver mitochondria,
 effect of chronic ethanol
 consumption, 457
 effect of rifampin, 2139
 synthesis in skeletal muscle, effect
 of Marcaine, 1753
- Protein carboxymethylase,
 subcellular distribution in human
 platelets and erythrocytes, 679
- Protein-drug interactions,
 circular dichroism studies, 1043
- Protein kinase,
 cyclic AMP dependent,
 in HeLa and Chinese hamster cells,
 effect of chlorambucil, 604
 in liver, effect of phenobarbital
- Protein kinase,
 cyclic AMP dependent (contd.)
 and 3-methylcholanthrene, 219
 in lung, effect of butylated
 hydroxytoluene, 1671
 role as the transducer of
 cyclic AMP action, 1801
 in Walker carcinoma cells
 resistant to alkylating agents,
 947
- Protoberberines,
 effect on adenylate cyclase in
 caudate nucleus, 1113
- Psychomimetic drugs,
 association with 6-methylpurine in
 aqueous solution, 595
- Psychotropic drugs,
 effect on prostaglandin biosynthesis
 in brain, 213
- Pulmonary circulation,
 conversion of des-Asp-angiotensin I
 to angiotensin III, 2871
- Pulmonary vascular resistance,
 effect of hypoxia, relationship
 with cyclic nucleotides, 911
- Purine,
 metabolism in cultured heart cells,
 effects of allopurinol, 1297
- Purine nucleoside phosphorylase,
 in primary rabbit kidney cells and
 human skin fibroblasts, 1421
- Purine nucleotides,
 synthesis in Ehrlich ascites cells,
 effect of 5'-deoxyadenosine, 2163
- Purine salvage pathways,
 in ATP synthesis in *vas deferens*, 45
- Pyrazol-pyridine derivatives,

- Pyrazol-pyridine derivatives,
effect on prostaglandin synthetase
in vitro, 2157
- Pyrethroids,
effect on acetylcholine and cyclic
nucleotides in rat brain, 1703
- Pyridine nucleotides,
involvement in rat hepatic microsomal
drug metabolism, 965, 969, 979
- Pyridoxal 5'-phosphate,
inhibition of pineal hydroxyindole-
O-methyltransferase, 120
- Pyridoxal phosphate antagonists,
effect on transmitter synthesis, 475
- Pyrimethamine,
inhibition of histamine N-methyl-
transferase in vivo and in vitro,
1507
- Pyrimidine nucleoside phosphorylase,
in primary rabbit kidney cells and
human skin fibroblasts, 1421
- Pyrimidine ribotides,
inhibition of synthesis in brain by
barbituric acid and its
derivatives, 655
- Pyrovalerone,
effect on peripheral noradrenergic
mechanisms, 1693
- 2-Pyrrolidinone,
in mouse brain, 2061
- Pyruvate,
in brain, effects of ethanol and
thiamine deficiency, 1259
oxidation in liver mitochondria,
effects of hypoglycin and pent-
4-enoic acid,
in vitro, 2879
- Pyruvate (contd.)
in vivo, 2891
- Pyruvate kinase,
in liver, effect of morphine on
isoenzymes, 1347
- Quazodine,
phosphodiesterase inhibition and
tracheal relaxation, 729
- Quinidine,
action on heart sarcolemma, 1281
variability in serum binding, 871
- Quinine,
mechanism of inhibition of Ca^{2+}
transport in sarcoplasmic
reticulum, 539
- Quinolines,
effect on Na^+, K^+ -ATPase in brain,
2555
- Quinonoid dihydropterin reductase,
bovine brain, purification and
characterization, 1939
rat brain, regional and subcellular
distribution, 1947
- 3-Quinuclidinyl benzilate,
antimuscarinic activity in vitro
and in vivo, 1117
- Quipazine,
antiepileptic action and effect on
monoamine metabolism, 2821
- Renal insufficiency,
chloramphenicol binding to
serum albumin, 1717
- Renin,
human, inhibition by concanavalin
A, 815

- Renin-angiotensin system,
in brain, model for synthesis of
peptides, 2379
- Reserpine,
effect on monoamine oxidase in rat
liver and brain in vivo, 1985
effect on prostaglandin biosynthesis
in brain, 213
- Resorufin,
conjugation in hepatocytes, 1533
- Retina,
subcellular distribution of dopamine-
sensitive adenylate cyclase, 2281
- Reverse transcriptase,
inhibition by gliotoxin analogues,
635
in Rous sarcoma virus, inhibition by
isoniazid-copper complexes, 579
- Reye's syndrome,
immunopharmacological considerations,
145
- Rheumatoid arthritis,
possible mechanism of action of
D-penicillamine, 469
role of prostaglandins, 1611
- 3- β -D-Ribofuranosyl-4-hydroxypyrazole-
5-carboxamide,
metabolism to 5'-triphosphate in
human blood, 709
- 1- β -D-Ribofuranosyl-1,2,4-triazole-3-
carboxamide,
metabolism to 5'-triphosphate in
human blood and L5178Y cells, 709
- Ribonuclease,
bovine pancreatic, effect of steroids, 1831
- Ribonucleic acid,
in inflamed tissue, effect of
antirheumatic drugs, 353
in liver, effect of halothane on
orotic acid uptake and uridine
incorporation, 2187
reaction with platinum-pyrimidine
bases, 1571
synthesis in cells and viruses,
effect of halobenzimidazole
ribosides, 2475
synthesis in HeLa S₃ cells, effect
of Δ^9 -tetrahydrocannabinol, 1759
synthesis in L1210 cell nuclei,
potentiation by 2'-deoxycytosine
on inhibitory effect of
xylosyladenine, 2543
synthesis in liver mitochondria,
effect of rifampicin, 2139
synthesis in normal and tumour
tissue, effect of 5-azacytidine,
745
synthesis in pineal gland during
N-acetyltransferase induction,
551, 557
synthesis in skeletal muscle, effect
of Marcaine, 1753
- tRibonucleic acid,
in brain, methylation in vivo,
effect of methionine sulfoximine,
2655
- Ribonucleic acid polymerase I,
in liver, effect of phenobarbital
and 3-methylcholanthrene, 219
- Ribonucleic acid polymerases,
DNA-dependent, partial purification
from small dense nuclei of

- Ribonucleic acid polymerases(contd.)
 mouse brain, 1787
 in Trypanosoma cruzi, effect of
 5-nitrofurantoin, 2815
- Ribonucleic acid methyltransferases,
 in brain, methylating capacity
in vitro, effect of methionine
 sulfoximine, 2655
- Ribonucleotide reductase,
 in cultured human cells, 2297
- Ribosomes,
 liver, effect of dimethylnitrosamine
 on phosphorylation, 2495
- Rifampicin,
 effect on RNA and protein synthesis
 in liver mitochondria, 2139
- Ro 20-1724,
 phosphodiesterase inhibition and
 tracheal relaxation, 729
- Rous sarcoma virus,
 inhibition of reverse transcriptase
 by isoniazid-copper complexes, 579
- Rubidazole,
 carrier-mediated transport in
 Ehrlich ascites tumour cells, 1221
- Salbutamol,
 lipolytic activity in isolated
 adipocytes, 1885
 effect on thromboxane A_2 generation
 in platelets, 1603
- Salicylic acid,
 binding to human serum albumin,
 microcalorimetry, 1401
 effect on glycoprotein biosynthesis
 in gastric mucosa in relation to
 ulcerogenic activity, 877
- Salicylic acid(contd.)
 inhibition of platelet aggregation
 and release, effect of
 arachidonic acid, 2131
 effect of liver cirrhosis on
 albumin binding, 2729
- Salmonella mutagenesis test system,
N-hydroxy-2-acetylaminofluorene,
 2399
- Salsolinol,
 effect on brain tyrosine hydroxylase,
 2699
- Sanguinamide,
 biochemical properties, 233
- Sanguinarine,
 inhibition of Na^+, K^+ -ATPase
 in brain, 2555
- Sarcolemma,
 action of some antiarrhythmic
 agents, 1281
 effect of divalent cations on
 enzymes and calcium binding, 2605
- Sarcoma 180 cells,
 interactions of deoxycytidine and
 adenosine deaminase, 2289
- Sarcoplasmic reticulum,
 quinine inhibition of Ca^{2+}
 transport, 539
- Sarin,
 inhibited acetylcholinesterase,
 effect of SAD-128 and decameth-
 onium on reactivation by oximes,
 757
 rate of decomposition of phosphyl-
 ated oximes, 857
- Schistosoma mansoni,
 effect of disulfiram on egg

Schistosoma mansoni(contd.)

production and noradrenaline levels in, 817

infected mice, β -glucuronidase in liver and spleen, effect of hycanthone, 473

Schizophrenia, phenylethylamine excretion, 1707

Scopolamine, antioxotremorine activity, 1117

Secretin, effect on biosynthesis of gastric mucins, 2775

Seizures, induced by 3-mercaptopropionic acid or pentylenetetrazol, effect of methionine sulfoximine, 2972

protection with dopamine agonists, 2821

Seminal vesicles, effect of androgens on isoproterenol-induced increase in cyclic AMP, 465

prostaglandin synthetase in microsomes, effect of 4-acetamidophenol 393

Serotonin N-acetyltransferase, in pineal gland, effect of calcium on induction of, 2549

Sex differences, amine oxidase in mouse liver microsomes, 601

development of drug metabolism in mice, 627

effects of enzyme inducing agents on liver blood flow, 2617

induction of aryl hydrocarbon hydroxylase in liver, lung and

Sex differences(contd.)

kidney by 3-methylcholanthrene, 2537

in impairment of hepatic drug metabolizing enzymes in rats with adjuvant disease, 1379

in liver microsomal drug metabolism, pituitary involvement, 1125

in effect of thyroxine on hepatic drug metabolism, 2027

Sheep, methimazole uptake by thyroid slices, 685

Shigella endotoxin, depression of kidney microsomal prostaglandin synthesis, 807

Sinefungin, inhibition of methyltransferases, 1981

Skin, fibroblast cell cultures, nucleoside catabolizing enzymes in, 1421

specificity of epoxide hydratase in, 17

Slow reacting substance of anaphylaxis, reduction in release from lung with increasing age, 2119

$^{35}\text{SO}_4$, incorporation into gastric mucosal glycoproteins, 2775

Sodium, effect on ethacrynic acid fluxes in kidney slices, 2171

Sodium cyanide, effect on catecholamine release from brain tissue, 511

Soman,

- Soman,
inhibited acetylcholinesterase,
effect of SAD-128 and decamethonium on reactivation by oximes,
757
- Somatostatin,
induced histamine release, 497
- Southern armyworm,
interaction of isomeric phenyloxazoles and phenylthiazoles with
microsomal oxidation, 2466
- Spermatogonial cells,
inhibition of biosynthetic processes
by D-,L- and DL-methadone, 123
- Spermidine,
antagonism of immunosuppressive
effects of methylglyoxal-bis
(guanylhydrazone), 1555
- Spinal cord,
effect of deslanoside on 5-hydroxy-
tryptamine, 5-hydroxyindoleacetic
acid and tryptophan hydroxylase
in, 2459
effect of microinjection of opioids
into nucleus reticularis
gigantocellularis on normetanephrine in, 2756
- Spiperone,
kinetics and characteristics of
in vitro binding, 307
regional distribution and in vivo
displacement of neuroleptic
drugs, 317
subcellular distribution of
neuroleptic drugs and their
receptors in rat brain areas,
323
- Spleen,
lipid peroxidation in, effect of
adjuvant- or carrageenin-
induced inflammation, 531
- Spleen cells,
immunosuppressive effects of
methylglyoxal-bis(guanylhydrazone)
and antagonism by spermidine, 1555
- Spontaneously hypertensive rats,
adenylate cyclase, phosphodiesterase
and lactate dehydrogenase in
heart, 1179
effect of taurine on blood pressure,
2689
Sq 20881,
effect on conversion of des-Asp-
angiotensin I to angiotensin III,
2871
- Steroid contraceptive drug,
effect on serum activation of
lipoprotein lipase in rats, 795
- Δ^4 -Steroid hydrogenase,
in liver, effect of indomethacin,
1977
- Steroids,
effect on bovine pancreatic RNase
in vitro, 1831
metabolism in liver, effect of
2-Br- α -ergocryptine, 1713
effect on mitochondrial respiration
in the presence of halothane,
2959
- Sterol,
biosynthesis in brain after
zuclomiphene, AY9944 and
Triparanol treatment, 1637
trans-Stilbene oxide derivatives,

- trans-Stilbene oxide derivatives,
effect on epoxide hydratase and
benzo(a)pyrene monooxygenase in
liver, kidney and lung, 2237
- Stomach,
effect of drugs on mucin biosynthesis,
2775
5-hydroxytryptamine in, effect of
prostaglandin E₁, 130
effect of 4-imidazolyl-3-amino-2-
butanone on gastric secretion,
2653
- Stomach carcinoma,
inactivation of cathepsin D by
diazoacetyl-DL-norleucine methyl
ester, 827
- Streptomycin,
uptake and subcellular localization
in fibroblasts, 415
- Stress,
effect on S-adenosyl-L-methionine
in liver, 2649
effect on ATPase in brain, 1139
- Striatum,
effects of 2-aminotetralin derivat-
ives on adenylate cyclase and
neuroleptic receptor, 1417
effect of amphetamine on substance P
in, 839
cyclic nucleotides in, effect of
dopamine and acetylcholine
receptor agonists and antagonists,
2333
nicotine-induced release of
catecholamines, 2667
receptor coupled adenylate cyclase,
2919
- Styrenes,
para-substituted, metabolism
in vitro, 1435
para-substituted, secondary
deuterium isotope effects on
epoxidation by cytochrome P-450,
1441
- Substance P,
in rat striatum, effect of
D-amphetamine, 839
- Succinonitrile,
liberation of cyanide, effect of
ethanol, 1135
- Sulfaethidole,
binding to human serum albumin,
microcalorimetry, 1401
- Sulfhydryl reagents,
induced peroxidative metabolism in
adipocytes, 2589
- Sulfinpyrazone,
binding to glucocorticoid receptors
in vitro, 1187
inhibition of platelet aggregation
and release, effect of
arachidonic acid, 2131
- 6-Sulfonanilamidoindazole,
induced arthritis, impaired
metabolic handling of drugs, 2395
- Sulfur,
from desulfuration of parathion,
role in inactivation of
microsomal oxidases, 293
- Sulindac and metabolites,
disposition in five species, 2311
- Superoxide anion,
inhibition of production by
anti-inflammatory drugs, 777

- Superoxide anion(contd.)
 production by liver microsomes from phenobarbital treated rats, 355
 role in inflammation, 1397
- Superoxide dismutase,
 in lung, effect of diethyldithiocarbamate, 251
 oxygen toxicity, 1805
- Superoxide ion,
 induced degradation of synovial fluid, effect of anti-inflammatory drugs, 535
- Synaptosomes,
 ATPase in, effect of CNS drugs, 132
 dopamine accumulation, effect of psychotropic drugs, 1063
 effect of ethanol administration on glutamate binding, 1685
 inhibition of monoamine uptake by bicyclo-octanes, 2907
 interactions of adrenergic compounds, 2015
 effect of mazindol on monoamine uptake, 1843
 noradrenaline uptake and release, effects of methylenedioxyamphetamines, 1497
 effects of Org 6582 on monoamine uptake, 1023
 retina, adenylate cyclase in, 2281
- Synergism,
 cytotoxicity of arabinosylcytosine and 3-deazauridine, 181
- Synovial fluid,
 degradation induced by free radicals, 535
- Talazolol,
 lipolytic activity in isolated adipocytes, 1885
- Taurine,
 effect on blood pressure in spontaneously hypertensive rats, 2689
 in brain of barbiturate-dependent rats, 1955
 in heart, effect of glucocorticoids, 2973
- Taurine-calcium interaction,
 measured by ^{13}C nuclear magnetic resonance, 803
- Taurocholate,
 effect on drug transport by isolated hepatocytes, 397
- Teratogenesis,
 relation to kynurenine formamidase, 2611
- Terbutaline,
 effect on hypoxia-induced vasoconstriction and cyclic nucleotides in lung, 911
 uptake and biotransformation in perfused lungs, 301
- Tertiary amine local anaesthetics,
 inhibition of phagocytosis in peritoneal macrophages, 2447
- Testes,
 inhibition of biosynthetic processes by D-, L- and DL-methadone, 123
- Testosterone,
 effect on bovine pancreatic RNase, 1831
 effect on isoproterenol-induced increase in cyclic AMP in

- Testosterone(contd.)
 accessory sex organs, 465
 metabolism by liver microsomes,
 effect of cannabinoids, 1725
- Tetrabenazine,
 effect on prostaglandin biosynthesis
 in brain, 213
- Tetrabromosulfonephthalein,
 effect on fatty acid uptake by
 perfused rat liver, 897
- Tetracaine,
 affinity for muscarinic receptor,
 2039
 inhibition of phagocytosis in
 peritoneal macrophages, 2447
- Tetrachlorocyclopentadiene,
 mutagenicity due to metabolic
 activation, 2927
- 2,3,7,8-Tetrachlorodibenzo-p-dioxin,
 effect on N,N-dimethylaniline
N-oxidase in liver microsomes, 601
 effect on glutathione S-transferase
 in rat liver cytosol, 2487
 inducible liver aldehyde dehydrogen-
 ase, immunochemical identity, 2463
 induction of diaphorase, 505
 induction of liver aldehyde
 dehydrogenase, 2343
 time course of induction of aryl
 hydrocarbon hydroxylase in liver
 nuclei and microsomes, 2103
- Tetraethylammonium,
 reversal of bretylium blockade of
 adrenergic nerve terminals, 1512
 transport in kidney slices, 999
 ionic and metabolic requirements,
 1325
- Δ^1 -Tetrahydrocannabinol,
 effect on monoamine oxidase in
 brain, 2513
 release of arachidonic acid from
 HeLa cells, 1275
- Δ^8 -Tetrahydrocannabinol,
 effect on testosterone metabolism
 by liver microsomes, 1725
- Δ^9 -Tetrahydrocannabinol,
 effect on cell proliferation and
 macromolecular biosynthesis in
 human cells, 1759
 inhibition of lymphocyte
 acyltransferase, 329
 effect on plasma concentration of
 non-esterified fatty acids, 407
 effect on testosterone metabolism
 by liver microsomes, 1725
- Tetrahydroisoquinolines,
 effect on brain tyrosine
 hydroxylase, 2699
- 1,4,5,6-Tetrahydronicotinamide adenine
 dinucleotide,
 effect on NADPH kinetics of amino-
 pyrine N-demethylation, 979
- Tetrahydroprotoberberines,
 effect on adenylate cyclases in
 caudate nucleus, 1113
- Tetrahydrouridine,
 cytidine deaminase interaction,
 analysis by ligand techniques, 53
- Thalamus-midbrain-medulla pons,
 activation of tryptophan
 hydroxylase, 1069
- Theophylline,
 antiporphyrin activity in normal
 and allylisopropylacetamide-

Theophylline(contd.)

- treated rats, 1729
- effect on high energy phosphates in frog skeletal muscle, 2965
- inhibition of human myometrial cyclic AMP phosphodiesterase, 1292
- inhibition of phosphodiesterase and relaxation of tracheal smooth muscle, 254, 729
- methylxanthine and methyluric derivatives, pharmacology, 1545
- effect on phosphodiesterase, 5'-nucleotidase and adenosine deaminase in kidney, 2845
- Thiamine deficiency,
 - effect on cerebral and visceral protein synthesis, 1677
 - effect of ethanol on CNS metabolism, 1259
 - effect on metabolism and acute toxicity of dimethylnitrosamine, 1783
- Thioacetamide,
 - inhibition of 5-aminolevulinic acid synthetase, 2095
- Thioacetamide-S-oxide,
 - inhibition of 5-aminolevulinic acid synthetase, 2095
- Thioinosinic acid,
 - formation in mouse liver, effect of endotoxin, 2507
- Thiols,
 - non-protein bound, relationship with biliary excretion of methylmercury 2203
- Thionamides,
 - effect on adenyl cyclase activity

Thionamides(contd.)

- and phospholipogenesis in rat thyroid, 487
- Thiophosphamide,
 - effect on lysosomes in tumours, 1381
- Thiosemicarbazide,
 - effect on transmitter synthesis, 475
- Thioxanthenes,
 - effect on dopamine accumulation by striatal synaptosomes, 1063
- L-Threo-3,4-dihydroxyphenylserine,
 - decarboxylation in vitro, 1081
- Thromboxane A₂, 1515
 - formation in platelets, effect of β -adrenergic agonists, 1603
- Thromboxane B₂,
 - inhibition of formation by anti-inflammatory drugs in carrageenin induced granuloma, 109
- Thymidine,
 - incorporation into DNA in normal and tumour tissue in vivo, effect of 5-azacytidine, 745
- Thymidylate synthetase,
 - in cultured cells, inhibition by 5-nitro-2'-deoxyuridine, 2663
 - from 5-fluorocytosine-sensitive fungal isolate, effect of 5-fluoro-2'-deoxyuridylic acid, 703
- Thymocytes,
 - cyclic AMP in, stimulation by endogenous adenosine, 2675
- Thymoleptics,
 - effect on dopamine accumulation by striatal synaptosomes, 1063
- Thyroid,

- Thyroid,
 effect of thionamides on adenylyl cyclase and phospholipogenesis, 487
 uptake of methimazole by slices, 685
- Thyroid hormones,
 modulation in vitro of monoamine oxidase activity, 751
- Thyroid-stimulating hormone,
 effect on methimazole uptake by thyroid slices, 685
- Thyroxine,
 effect on hepatic drug metabolism in male and female rats, 2027
 modulation in vitro of monoamine oxidase activity, 751
 role in clofibrate enhancement of renal gluconeogenesis, 2275
- Ticlopidine,
 effect on energy transduction of rat liver mitochondria, 2099
- Tight binding inhibitors,
 interactions of deoxycytosine and adenosine deaminase, 2289
 ligand techniques, 53
- Toad skin,
 role of cyclic AMP and angiotensin III on response to angiotensin II, 611
- Tocinamide,
 effect on memory processes, 1793
- Toxogonin,
 reactivation of acetylcholinesterase, effect of SAD-128 and decamethonium, 757
- Tracheal smooth muscle,
 correlation between relaxation and inhibition of phosphodiesterase, 254, 729
- Tracheal smooth muscle (contd.)
- Transferrin,
 in plasma, effect of clofibrate, 125
- Transglutaminase,
 in lung, effects of bleomycin and copper bleomycin, 1211
- Translocase,
 inhibition in endotoxic shock, 2931
- Tranylcypromine,
 effect on monoamine oxidation in rat brain, 112
 effect on platelet monoamine oxidase and amine uptake, 1197
- Triacylglycerol,
 in liver, effect of morphine, 1779
- Triamcinolone acetonide,
 effect on degradation of synovial fluid, 535
- Triazinate,
 inhibition of histamine N-methyl transferase, 1507
- 1,2,4-Tribromobenzene,
 induction of cytochrome P-450, 361
- 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane,
 effect on acetylcholine and cyclic nucleotides in rat brain, 1703
 induction of liver aldehyde dehydrogenases, 2343
 time course of induction of aryl hydrocarbon hydroxylase in liver nuclei and microsomes, 2103
- Triglycerides,
 intestinal absorption, effect of amphetamine and fenfluramine, 1987
 in liver,

Triglycerides(contd.)

in liver,
 effect of di-2-ethylhexyl phthalate, 2283
 effect of α -mono-*p*-myristyloxy- α' -methylcannamoyl glycerol, 2631, 2637

in serum, effect on quinidine binding, 871

Triiodothyronine,

modulation in vitro of monoamine oxidase activity, 751

Trimethadione,

effect on monoamine metabolism in cat brain, 1815

1,1'-Trimethylene bis(4-formyl

pyridinium bromide)dioxime,
 reactivation of acetylcholinesterase,
 effect of SAD-128 and decamethonium, 757

Trinitrobenzene sulfonic acid,

incorporation into mitochondrial membranes, effect of clorgyline, 2327

Triparanol,

plus zucломiphene and AY9944, effect on sterol biosynthesis in brain, 1637

Trypanosoma cruzi,

effect of 5-nitrofurantoin on nucleic acid synthesis, 2815

Tryptamine,

effect on prostaglandin biosynthesis in brain, 213

Tryptophan,

binding to bovine serum albumin, 937
 importance of tryptophan pyrrolase

Tryptophan(contd.)

and aromatic amino acid decarboxylase in catabolism of, 763

in serum,

alteration associated with ethanol dependence, 1697
 effects of pentylentetrazol and trimethadone, 1815

Tryptophan analogues,

inhibition of DOPA decarboxylation, 1289

Tryptophan hydroxylase,

in brain,

effect of deslanoside, 2459
 long-term effects of *p*-chloroamphetamine, 2033

in brain stem, phospholipid-induced activation, 915
 from central serotonergic neurons, activation by calcium and depolarization, 1069

Tryptophan pyrrolase,

importance in catabolism of tryptophan, 763

Tubercidin,

inhibition of Crithidia fasciculata, 1479

Tubulin,

binding of alkaloids, effect of methodology and species derivation, 71

Tumour cells,

effect of antitumour agents on lysosomes, 1381

Tyramine,

function in neurotransmission, 621
 effect on prostaglandin biosynthesis in brain, 213

- Tyrosine,
 in serum, alteration associated with
 ethanol dependence, 1697
- Tyrosine aminotransferase,
 in liver,
 effect of maternal morphine
 administration, 249
 effect of morphine on isoenzymes,
 1347
- Tyrosine hydroxylase,
 in adrenal of hypertensive rats,
 effects of propranolol, 1698
 in brain, effect of tetrahydroiso-
 quinolines, 2699
- Tyrosine 3-mono-oxygenase,
 in pheochromocytoma cells, activation
 by lasalocid, 673
- Ulcerogenic drugs,
 effect on gastro-intestinal mucus
 glycoprotein biosynthesis in vivo, 877
- 7-(3',4'-Unsaturated-2'-ketohehexosyl)
 theophylline,
 effects on KB cells, 1037
- Uremic serum,
 chloramphenicol binding, 1717
- Uridine,
 incorporation into RNA in liver,
 effect of halothane, 2187
 incorporation into RNA in normal and
 tumour tissue in vivo, effect of
 5-azacytidine, 745
- Uridine diphosphate glucuronic acid,
 synthesis in hepatocytes, effect
 of ethanol, 2583
- Uridine diphosphate glucuronosyl
- Uridine diphosphate glucuronosyl
 transferase,
 in intestine, effect of dietary
 cholesterol, 1095
 in liver microsomes,
 Gunn rats, 369
 effect of prolonged phenobarbit-
 one treatment, 2357
 effect of RMI 12330A, 640
 in perfused liver from Gunn rats, 369
- Uridine monophosphate kinase,
 in brain, effect of barbituric acid
 and its derivatives, 655
- Uridine phosphorylase,
 in brain, inhibition by barbituric
 acid and its derivatives, 655
 in primary rabbit kidney cells, 1421
- Uterine relaxant drugs,
 inhibition of human myometrial
 cyclic AMP phosphodiesterase, 1292
- Uterus,
 effect of methoxychlor on ornithine
 decarboxylase, 2417
- Vas deferens,
 effect of enkephalin and endorphin
 analogues on receptors in, 2275
 pathways of nucleotide metabolism,
 45
 phenylethylamine deamination, 2374
 pre- and post-synaptic alpha
 blocking activity of benzodiox-
 anes, 1879
- Vasoactive intestinal peptide,
 effect on cyclic AMP accumulation
 in brain, 2209
- Vasodilation,

- Vasodilation,
 inhibition of phosphodiesterase by
 YC-93, 1269
 prostaglandins, 1611
- Vasopressin,
 modulation of memory processes, 1793
- Vinblastine,
 binding to tubulin, differences due
 to methodology and protein source,
 71
 liposome-encapsulated, pharmaco-
 kinetics, 21
 effect on lysosomes in tumours, 1381
- Vincristine,
 metabolic fate in rat, high-pressure
 liquid chromatography, 37
 effect on plasma disposition of
 antipyrine and biliary excretion
 of phenolphthalein, 1413
- Viruses,
 effects of halobenzimidazole
 ribosides, 2475
- Vitamin A,
 effect of deficiency and excess on
 aflatoxin metabolism in the
 rabbit, 833
- Vitamin D hydroxylases,
 in quail kidney, effect of estradiol,
 2765
- Walker carcinoma,
 bearing rats,
 effect on β -adenosyl-L-methionine
 in liver, 2649
 pentobarbital disappearance in
 two cell lines, 811
 influence of prostaglandin synthesis
- Walker carcinoma(contd.)
 inhibitors on antitumour
 activity, 1389
 resistant to alkylating agents,
 cyclic nucleotide metabolism in,
 947
- Warfarin,
 binding to bovine serum albumin,
 displacement by salicylate, 139
 cooperativity of binding with
 human serum albumin induced by
 free fatty acid anion, 739
 interaction with human serum albumin
 in vitro, effect of heavy metals,
 2957
 effect of liver cirrhosis on albumin
 binding, 2729
 effect on phylloquinone metabolism
 in man, 273
- Xanthine oxidase,
 induced foot-edema in rats,
 involvement of oxygen radicals,
 1397
 relationship with aldehyde oxidase,
 2763
- Xenobiotic initiating factors,
 Reye's syndrome, 145
- Xenobiotic metabolism,
 induction by halogenated benzenes,
 361
- Xylosyladenine,
 inhibition of adenosine uptake in
 human erythrocytes, 2191
 inhibition of nuclear RNA synthesis
 in L1210 cells, effect of
 2'-deoxycycoformycin, 2543

Yeast(Saccharomyces mariscianus),

mode of action of isoniazid, 1145

Yohimbine,

pre- and post-synaptic α pha

blocking activity, 1879

effect on prostaglandin biosynthesis

in brain, 213

Zinc,

inhibition of AMP deaminase, 2651

in plasma, liver and muscle, effect

of clofibrate, 125

in rat liver cytosol, effect of

cadmium ingestion, 2001

effect on warfarin interaction with

human serum albumin, 2957

Zinc binding protein,

in liver and kidney of Fulmarus

glacialis, 822

Zinc-lidocaine complexes,

action on histamine release from

isolated mast cells, 243

Zoxazolamine,

paralysis time, effect of glycofurool,

2851

Z protein,

fatty acid transport in liver, 897

Zuclophene,

plus AY9944 and Triparanol, effect

on sterol biosynthesis in brain,

1637

Zymosterol,

in brain after zuclophene, AY9944

and Triparanol treatment, 1637