

A Struggle With Titans pages:

147 effect on alkaline phosphatase in experimental animals  
253-4 McClure: "anti-enzymatic effects of  
trace quantities of fluoride cannot be disregarded"

Fluorine in Stomatology and Hygiene pages:

361-379 effect on enzymes and cellular metabolism  
361 products of glycolysis discovered using fluoride  
362 fluoride-metal complexes  
antagonism

magnesium enzyme activation upon phosphorylated substrates;  
phosphokinases  
synthelases

enzymes catalyzing hydrolysis of phosphoric acid anhydrides  
enzymes carrying phosphates or phosphoryl groups  
from ATP to ADP

decarboxylase  
enzymes affecting -ketoacids  
peptidases  
carboxypeptidase  
alkaline phosphatase

sensitivity of various enzymes  
broad spectrum of fluoride effect on enzymes  
reverse inhibition

Fluorine in Stomatology and Hygiene continued;

- 364                           inhibitory effect of fluoride on:  
  esterase  
                  citrate and isocitrate dehydrogenase  
  lipase  
                                  cytochrome C enolase  
                  lactic acid dehydrogenase  
                                  phosphatase  
                                  carboxylase  
                                  amylase
- 365                           compensatory processes  
                                  catalase and protease (rabbits)  
          glycolytic enzyme and intensity of tissue respiration  
                  delayed formation of 2-phospho-pyruvic acid
- 336                           enolase (phosphopyruvate hydrase)  
  fooling enolase  
                  plant enolase inhibited at 3 mg/l  
          enolase inhibition in liver and heart muscle at 15 mg/l
- 336   depresses oxidation and decarboxylation of pyruvic acid  
                  carbohydrate-phosphorous metabolism reactions  
                                  pyruvic acidcarboxylase  
  phosphoglucomutase  
  phosphatases
- 366   enolase; metabolism of carbohydrates, proteins and fats

367            lactate prevented development of fluorosis  
              sodium pyruvate effect on frog heart  
              sodium pyruvate effect on fluoride-reduced sperm mobility  
              higher blood glucose/decreased liver and muscles (rabbits)

367-8 hyperglycaemia  
blood/liver citrate dehydrogenase more sensitive  
to fluoride than lactic dehydrogenase,  
phosphatase, transaminase  
Krebs cycle  
no effect on compounds of dehydrogenase system

368 lipase  
pancreatic lipase  
pancreatic esterase  
fat metabolism  
fluoride suppresses fatty acid oxidases  
intestine lipase depressed in rats  
hyperglycaemia, 50% increase in blood lipase/anyase[sic]

369 fat increases toxic effect of fluoride (in rats)  
adenosine triphosphate  
adenosine triphosphoric acid  
fluoride inhibition in glutamine synthesis system  
fluoride inhibition of glutamine-glutamic acid reaction  
inhibition of ADP phosphomutase  
ATP-ase less inhibited?

370 phosphoglucomutase  
cholinesterase inhibition  
hydrolysis of acetylcholine  
low potentials in synapses during rest

371 effect of cholinesterase inhibition on impulse formation  
effect of cholinesterase inhibition on  
acetylcholine accumulation  
joint effect of fluoride inhibition on acetylcholine  
disintegration and hydrolysis  
of adenosine triphosphoric acid  
effect on vagus nerve  
fluorides raise muscle/gland sensitivity to acetylcholine  
enolase inhibition and acetylcholine precursors  
phosphatase and bone mineralisation  
increase in serum phosphatase in disturbances  
of phosphorous-calcium metabolism

372 phosphatase inhibition in organs and tissues  
inhibition of phosphatases in:  
plants,  
bacteria,  
milk  
acid phosphatases of tissues  
alkaline osseous phosphatase  
varied opinion on relative inhibition of acid and  
alkaline phosphatases

372-3 sensitivity in embryos to fluorine inhibition of  
tricalcium-phosphate precipitation in cartilage



Fluorine in Stomatology and Hygiene continued;

- 373        compensatory bone phosphatase activity in fluorosis  
          fluoride mechanism and tooth phosphatase during caries  
          increase in bone phosphatase activity at 1.2 mg/l in rats,  
          clear depression in bone phosphatase at 15 mg/l,  
          no change in bone phosphatase activity 1.5 mg/l
- 374        serum alkaline phosphatase poor indicator of fluorosis  
          serum phosphatase in chronic fluorosis  
          polymerization of fluoride  
          inhibition of enzyme via electropositive dependence  
          on pH, nature and concentration of substrate ester  
          fluoride inhibition of succinic dehydrogenase  
          fluoride inhibition of cytochrome oxidase  
          fluoride inhibition of peroxidase  
          fluoride inhibition of catalase
- 375-6        reversibility of iron oxide enzyme inhibition
- 376        inhibition of cellular respiration
- 377        deoxyribonuclease aids growth of malignant tumours  
          fluoride inhibition of ptyalin  
          fluoride inhibition of pancreatic amylase  
          fluoride inhibition of diastase  
          fluoride inhibition of proteolytic enzymes  
          fluoride inhibition of rennet  
          fluoride inhibition of urease

Fluorine in Stomatology and Hygiene continued:

377        increased urine nitrogen and sulphur, increased N/S  
             ratio, decreased hippuric acid with high  
             fluoride intake in experimental lambs  
             biochemical damage both deepened and  
             broadened by increasing fluoride dose

             biochemical damage at lower levels in vivo than  
                         in vitro unequal distribution of  
                         fluoride in cellular structures

             fluoride concentration "many times higher" in  
             mitochondrial membrane when 0.1 mg/l in plasma

             compensation by enzymes less sensitive to fluoride

             undiscovered reason for contradictions in  
                         fluoride inhibition of enzymes,  
                         alternative pathway theory

                         paradoxical effect  
             general increase in damage to metabolic  
                         processes with dose  
             in vivo/in vitro comparisons lacking  
                         enzymograms

815                        anticholinesterase effect of  
                             diisopropylfluorophosphate  
             cholinergic and cholinometric activity of fluorobenzyl

Fluoridation and Truth Decay pages:

- 23 fluoride an enzyme poison — Nobel Prize winner
- 24 lipase inhibited up to 50% at one part in 15,000,000
- 69 inhibition of many important enzymes
- 77 1943 JAMA warning against water containing 1 ppm
- 84-5 researcher warns fluoride is poisonous, then  
recommends it for children's milk instead of water
- 93 enzyme deprived of magnesium, resulting in  
interference with mental processes, and nerve  
reactions throughout the body are depressed
- 242 Nobel Prize winner establishes  
low-fluoride interference with enzymes
- 243 enzyme interference and growth of bones
- 243 enzyme interference and functioning of nerve tissue
- 247 McClure's 1933 review of fluoride inhibition of  
lipase, carbohydrate enzymes, pepsin and urease
- 247 50% inhibition of lipase at one part in 15,000,000
- 247 25% decrease in succinic dehydrogenase activity in  
liver at 1 ppm
- 247 in vivo 6.4% inhibition of liver activity at 1 ppm
- 247 47.8% inhibition in succinic dehydrogenase in kidney at  
1 ppm in drinking water
- 247 impairment of an important step in cellular metabolism
- 247 depletes magnesium and manganese availability for  
enzyme functions
- 247 human serum alkaline phosphatase measurably reduced by  
fluoride in diet or drinking water
- 247-8 fluorides and calcium
- 248 calcium and nerve impulses, acetylcholine
- 271 inhibition of some enzymes 500 times greater with  
organic fluorides than with inorganic fluorides
- 285 ISRNVS resolution
- 285-6 Dr Linus Pauling defeated twice



The Fluoride Question pages:

- 71 "the most dangerous poison when taken in small  
quantities un-interruptedly over very long periods"  
WHO admits little known of in vivo effect on enzymes  
78 and optic neuritis caused by NaF therapy

Environmental Fluoride 1977 pages:

- 58 effect on blood components in experimental animals  
59 effect on blood components in humans  
90 increased bone alkaline phosphatase and  
urinary hydroxyproline in  
Italian studies of fluorotic patients  
99 increased serum alkaline phosphatase in  
fluoridated hemodialysis patients, endemic fluorosis  
109 biochemical, metabolic, neurological and  
early bone changes

Fluoridation \ The Great Dilemma pages:

- 78 isocitric dehydrogenase higher in low-fluoride  
group, suggesting fluoride not essential  
149 F<sup>-</sup> inhibits enolase, phosphoglucomutase  
150 [table 11-11]; in vitro inhibition of mammal enzymes  
150-1 enzyme activation; alkaline phosphatase  
224 lack of dose-response relation in tumour growth  
acceleration also seen with succinic dehydrogenase  
361 succinic dehydrogenase and nephrotoxicity



Fluoride \ The Aging Factor pages:

4	amounts of fluoride as low as those used in fluoridation cause soft tissue levels damaging to enzymes
9	enzymes and kidney damage
25	effect of fluoride on phagocytosis
54	manufacture of enzymes on ribosomes
	DNA repair enzyme
55	DNA repair enzyme
58	DNA repair enzyme
59	DNA repair enzyme
61	DNA repair enzyme
61	enzymes and genetic damage
67	DNA repair enzyme
73-75	enzymes inhibited at 1 ppm and % inhibition;
	acetylcholinesterase
	glutamine synthetase
	DNA repair enzyme system
	lactoperoxidase
	pterin deaminase
	alkaline pyrophosphatase
	dCMP deaminase
	butyrylcholinesterase
	ATPase
	phosphomonoesterase
	acid glycerol phosphatase

Fluoride \ The Aging Factor continued:

76	direct enzyme inhibition through hydrogen bonding
77	amino acids
79	cytochrome c peroxidase
	acetylcholinesterase
81	hydrogen bonding/enzyme interference confirmed
93	cytochromes
137	JAMA

Fluoride in Australia \ A Case to Answer pages:

50	fluoride an enzyme inhibitor
63	fluoride inhibits lactic fermentation in saliva

Fluoride \ The Freedom Fight pages:

98	cholinesterase
105	cholinesterase, acetylcholine
157-158	cholinesterase
166-167	cholinesterase
167	cholinesterase and cell permeability

National Fluoridation News issues:

XI 3 May-Jun 1965

XII 1 Jan-Feb 1966

XIII 6 Nov-Dec 1967

XIV 2 Mar-Apr 1968

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XV 2 Mar-Apr 1969

XV 6 Nov-Dec 1969

XVII 5 Sep-Oct 1971

XVIII 1 Jan-Mar 1972

XXI 1 Jan-Mar 1975

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XXIV 2 Apr-Jun 1978

XXVII 3 Jul-Oct 1981

XXVIII 4 Oct-Dec 1982

XXIX 2 Summer 83

XXXI 4 Spring 1986

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Gilbert's Syndrome