

## INDEXES

### FLUORIDE 2007

#### VOLUME 40

(cn. = correction; a page range, e.g., 285–6, indicates that there are separate entries on each page)

#### AUTHOR INDEX

- Abdollahi N 286  
Aizawa Y 272  
Akhondi N 201  
Akiniwa K 266  
Altun A 290  
Ames R 153  
An YH 292  
Anokhina AS 74  
Arefi A 287  
Ayooob S 152  
Błaszczak I 62  
Ba Y 275  
Bachman MS 258  
Bai G 202  
Baker J 70  
Balakrishna N 190  
Baranowska-Bosiacka I 285-6  
Bartels P. 281  
Bharti VK 238  
Bhasin S 259  
Bhatnagar C 55  
Bhatnagar M 55  
Bhushan B 278  
Bi LF 283  
Bi SG 276, 277  
Birkner B 116  
Birkner E 62, 116  
Blaylock RL 91, 256  
Bohatyrewicz A 280-1  
Borysewicz-Lewicka M 46  
Bradberry SM 73  
Broffitt B 198  
Brown SJL 255  
Bruker M 205  
Burgstahler AW 95, 150, 155,  
200, 214, 227, 248, 255,  
257, 289  
Cagetti MG 111  
Calderone J 257  
Campus G 111  
Carrizales L 257  
Ceyhan D 291  
Chaimongkol S 263  
Chandrashekar J, 266  
Chawla S 271  
Chen JX 222  
Chen LS, 260  
Chen PZ 292  
Chen TB 276  
Chen X 154, 272  
Chen XM 275-6  
Chen XZ 271  
Chen Y 292  
Chen ZS 276  
Chinoy NJ 7, 178, 256  
Chirumari K 101  
Chlubek D 67, 225, 281, 285-6  
Choi AL 265  
Choompolkul W 263  
Christian A-M 258  
Clearwater J 153  
Cobb CM 128  
Coffin M 69  
Connett MP 96  
Connett P 157  
Coplan MJ 258  
Cui LX 261, 275  
Cundy T 153  
Cypriano S 199  
Czupryńska K 285-6  
Dai CF 286  
Dawson DV 198  
de Sousa Mda LR 199  
Dehdashti S 262  
Delibas N 151  
Demirin H 151  
Dhananjaya Naidu M 42  
Di ZQ 274  
Ding P 286  
Dobaradaran S 262  
Doran PM 201  
Dote T 269, 270, 288  
Du GX 286  
Dudzińska W 285-6  
Duran C 152  
Ebrahimi R 281  
Eliás-Bonita AR 71  
Eliás-Viera AE 71  
Erdal E 152  
Erdoğan Y 290  
Eslami A 286  
Ethem FM 152  
Evans MC 153  
Falahzade F 201  
Falahzade M 201  
Farooqi A 202  
Fazlul Hoque AKM 24  
Feng FJ 263, 276  
Firdous N 202  
Flora SJ 203  
Fomenko DV 74  
Fordyce FM 70  
Foulkes RG 4, 229  
Fujihara M 282  
Gamble GD 153  
Ganesh K 259  
Gangal RK 264  
Ganzerla E 279  
Gao LH 261  
Gao P 276  
Gao Q 269, 289  
Gao YH 260, 275, 278-9  
Garg VK 203  
Gaspá L 111  
Gaur S 203  
Gavriliuc LA 154  
Ge YM 264, 274  
Genovesef J 200  
George P 128  
Giray SG 72, 151  
Giuliana G 150  
Grandjean P 257, 265  
Grey AB 153  
Grucka-Mamczar E 62, 116  
Gu MH 282  
Gu XL 270  
Guan ZZ 269, 289  
Gullion CM 255  
Güney M 72, 151  
Guo XD 274  
Guo XY 282  
Gupta AK 152  
Gupta G 259  
Gupta M 238  
Gutierrez-Salinas J 73  
Gutowska I 281, 285-6  
Haemer K 70  
Hallanger Johnson JE 201  
Han B 267, 271, 289  
Han SB 292  
Haque MM 24  
He J 292  
He P 154, 276  
He WH 154, 276  
He Y 273  
Hoffmann RHS 199  
Hong GH 286  
Hong L 198  
Hong Q 277  
Hope BC 70  
Hopfenmuller W 71  
Horii Y 283  
Horne A 153  
Hossain MD 24  
Hou J 261  
Hou K 263  
Huang C 162  
Huang CQ 288  
Huang H 275  
Huang XM 292  
Hussain I 265  
Hussain J 265  
Iljinsky U 70  
Indermitte E 70, 244, 284  
Inoue Y 272  
Itai K 272  
Jain P 287  
Jayaprakash 269  
Ji YY 284  
Jia G 283  
Jiang ZL 277  
Jiménez P 71  
Jin HT 274  
Jing L 268  
Kirzioğlu Z 290  
Kagamimori S 283  
Kajita E 283  
Kakei M 204  
Kalyanalakshmi P 42  
Kalyanasundaram S 184  
Kamal FM 24  
Kanellis MJ 198  
Kapoor V 238  
Karahan N 151  
Karayilmaz H 291  
Karro E 70, 244  
Kasperczyk S 62  
Ke HL 285  
Kearns AE 201  
Kennedy DC 271  
Khandare AL 184, 190, 273  
Khoo TK 201  
Kielbassa A M 71  
Kilfoy B 275  
Kimura S 272  
King A 153  
Kirzioğlu Z 291  
Kizichenko NV 74  
Koga H 72  
Kono K 269-70, 282, 288  
Köseler S 291

- Kotrych D 280  
Küçükeşmen Ç 134, 290-1  
Küçükeşmen HC 134, 291  
Kudo Y 272  
Kumar A 37  
Kumar UP 184, 273  
Labuschagne K 281  
Lall D 238  
Landrigan PJ 257  
Lee E 200  
Levy SM 198  
Li B 263, 277, 282  
Li GS 268  
Li HJ 276-7  
Li HR 263, 277  
Li HX 292  
Li Jun 287  
Li JC 274  
Li LZ 19  
Li PP 51  
Li QL 260  
Li SH 277  
Li W 276-7  
Li WT 13, 140, 275  
Li X 274  
Li XF 292  
Li XG 274  
Li Y 202, 263, 278, 279  
Li YF 286, 290  
Li YG 276  
Liang C 270  
Liang YX, 260  
Liao XY 276  
Liu J 154  
Liu KT 19  
Liu PG 271  
Liu QB 263, 277  
Liu RP 285  
Liu X 202  
Liu XB 277  
Liu XH 153, 277  
Liu XJ 271, 277  
Liu YJ 269, 289  
Long YG 289  
Lu Q 286  
Luo KL 276-7  
Lysyi LT 154  
Ma AH 292  
Ma JG 275  
Ma LY 19  
Ma XY 261  
Maas RP 258  
Machaliński B 280  
Machoy Mokrzyńska A 149, 280  
Machoy Z 62, 67, 149, 280, 281  
Madhusudhan N 269  
Mahaboob BP 269  
Mahvi AH 261-2  
Maj A 116  
Maleki A 281  
Marandi A 70  
Marchlewicz M 285-6  
Masters RD 258  
Masuda H 202  
Maupomé G 255  
Meiers P 161, 250  
Meyer-Lueckel H 71  
Miao Y 274  
Mikhailova NN 74  
Milciuviene S 199  
Mitsui G 269-70, 288  
Mitsui H 283  
Mittal M 203  
Miyazaki H 72  
Mohamedally SM 260  
Mohd A 265  
Mohee FM 24  
Mondal NK 259  
Morales R 257  
Morales-Gonzalez JA 73  
Mungan T 72, 151  
Muriale L 200  
Mustafa O 152  
Nagase H 283  
Nagumo A 266  
Nakazaki M 283  
Narbutaite J 199  
Narita K 266  
Nasirri M 286  
Navarro ME 257  
Nesadal D 279  
Neurath C 253  
Nicolau J 279  
Nikaido T 199  
Nishimuta M 72  
Nishino H 283  
Niu RY 162, 264, 270  
Noceń I 285-6  
Nohno K 72  
Olak J 284  
Opydo-Szymaczek J 46  
Oral B 72, 151  
Orr-Walker BJ 153  
Osmunson B 221  
Pan JY 277  
Paris S 71  
Patch SC 258  
Patel RS 178  
Patocka J 256  
Pawlowska-Góral K 279  
Peters D 255  
Pilo M 111  
Piotrowska S 281  
Piscopo MR 150  
Pizzo G 150  
Pizzo I 150  
Povoroznuk V 70  
Proudfoot AT 73  
Psoter W 71  
Pushpalatha T 152  
Qian C 271, 289  
Qiao G 285  
Qu WJ 267  
Rak J 280  
Rao GS 184, 190  
Rao MV 268, 271  
Rashmi G, 259  
Reddy MS 150  
Reddy PS 152  
Reddy PK 101  
Regar BC 55  
Reid IR 153  
Ren JF 284  
Ren YC 13  
Rocha-Amador D 257  
Roohi N 201  
Russak S 284  
Saava A 70, 244, 284  
Sakae T 204  
Sakuma S 72  
Sanna G 111  
Sathawara NG 178  
Satoh T 272  
Scanu R 111  
Seraj B 201  
Shabana B 269  
Shah D 271  
Shahrabi M 201  
Shankar NH 184  
Sharma JD 261, 287  
Sharma KC 265  
Sharma N 278  
Sharma PK 261  
Shashi A 278  
Shimbo Y 282  
Shimizu H 282  
Shimmura T 283  
Shirkhani B 71  
Simões A 279  
Singh B 203  
Sohu D 287  
Sönmez H 134  
Spano N 111  
Spinei IuG 154  
Spittle B 248, 262  
Spitz J 205  
Stawiarska-Pięta B 116  
Stepko EA 154  
Stojko R 116  
Strunecká A 256  
Strzelczak A 281  
Su XL, 283  
Sugaya C 272  
Sugita-Konishi Y 272  
Sun Dian-jun 260  
Sun DJ 260, 275, 278-9  
Sun GF 267, 282  
Sun W 269-70, 288  
Sun ZL 264  
Sundaram KR 266  
Susheela AK 259  
Szafarska-Stojko E 116  
Szyperka A 280  
Tagami J 199  
Take G 72, 151  
Takeda T 263  
Takizawa S 263  
Tamura N 204  
Tanaka H 282  
Tang GL 31  
Tang QQ 31  
Tao R 260  
Thankappan KR 266  
Tickner J 69  
Tiwari H 268  
Toro C 71  
Toth G 70  
Trend S 200  
Tripathi M 37  
Tripathi N 37  
Trivedi MH 7, 178  
Tsuji H 282  
Tsuji M 272  
Tsunoda H 272  
Tsunoda M 225, 272  
Tu JB 153  
Üşümez A 134  
Ulanova EV 74  
Ulu KG 291  
Usuda K 269, 270, 288  
Vale JA 73  
Vandana KL 128, 150  
Vartichan AI 154  
Vehkalahti MM 199  
Verma RJ 7, 178  
Vijayabhaskar M 42  
Vrana K 70

Waidyasekera PGK 199  
Wang A 154  
Wang AG 276  
Wang AM 271  
Wang BB 271  
Wang CQ 274  
Wang DX 282  
Wang G 277  
Wang GQ 19  
Wang H, 283  
Wang HW 169, 274  
Wang JD 13, 140, 162, 169,  
264, 270, 273-5, 284  
Wang JF 267  
Wang JM 140, 169, 273  
Wang LZ 263  
Wang MG 277  
Wang MX 282  
Wang WY 263, 277  
Wang Y 278-9  
Wang YQ 31  
Wang ZH 287  
Wang ZJ 277  
Warren JJ 198  
Wattanachira S 263  
Weerasinghe DDS 199  
Wefel JS 198  
Wei SY 286  
Wermers RA 201  
Wettasinghe KA 199  
Wiszniewska B 285-6  
Wongureng A 263  
Wu CX 264, 289  
Wu DS 271  
Wu F 153  
Wu HY 286  
Wu JQ 286  
Wu LY 260  
Wu M, 260  
Wu PF 267  
Wu XZ 276, 277  
Wu YY 51  
Wyszyńska M 116  
Xia T 154, 276  
Xiang QY, 260  
Xing Z 153  
Xiong X 154  
Xu BY 276  
Xu H 268  
Xu ZX 276  
Xue Y 153  
Yadav R 271  
Yagi M 72  
Yamadori E 269-70, 288  
Yamaguti PM 279  
Yan PP 275  
Yan XY 13, 140, 169, 275  
Yang BC 285  
Yang K 154  
Yang LN 13  
Yang X 31  
Yang YJ 275  
Yang ZQ 153  
Yao H 19  
Yao XJ 292  
Yin DM 286  
Ying DS 277  
Yoshikawa, M 204  
Yousefi Z 287  
Yu GQ 260, 272  
Yu J 275, 278-9  
Yu YN 31  
Zalejska-Fiolka J 62

Zazoli MA 261  
Zhang EY 285  
Zhang FC 292  
Zhang GZ 267  
Zhang JH 169, 270  
Zhang M, 283  
Zhang MF 260  
Zhang XK 277  
Zhang XL 286  
Zhang Y 263, 272  
Zhang YL 19, 275  
Zhang YW 275  
Zhao AN 285  
Zhao DM 267  
Zhao J 284  
Zhao JX 267  
Zhao LJ 260  
Zhao XY 263  
Zhao XZ 51  
Zheng BS 271-2, 277  
Zhou BH 140, 169, 274  
Zhou GL 276  
Zhou JS 292  
Zhou LW 278-9  
Zhou MH 260  
Zhou MR 277  
Zhovinsky E 70  
Zhu C 202  
Zhu CR 275  
Zhu H 285  
Zhu JY 275  
Zhu WM 292  
Ziegelbecker R 205  
Ziętek P 280

## SUBJECT INDEX

Accelerated bone resorption  
283  
Acetylcholinesterase 258, 289  
Acid-etching 291  
Adverse effects 155  
Air pollution 202  
Albino rats 278  
Algae photosynthesis 51  
Alizarin complexone 289  
Alkaline phosphatase 201  
Alum 287  
Alumino-fluoride complexes  
149, 256  
Aluminum 263, 278  
Aluminum fluoride 280  
Alzheimer disease 149, 280  
Amalgam safety 69  
Amelioration of fluoride toxicity  
7, 271  
Amino acids 282  
3-aminomethyl 289  
Amla 287  
Ammonia 258  
Ammonium fluorosilicate 258  
Amphibolic intermediates 282  
 $\beta$ -amyloid amino acids 280  
Anaemia 259  
Andhra Pradesh, India 42  
Animal modeling 256  
**Announcements:**  
XXVIIth Conference 3rd  
announcement 93  
XXVIIth Conference 4th  
announcement 159  
XXVIIIth Conference 1st  
announcement 207

Antelope 281  
Anti-oxidant amelioration 261  
Anti-oxidant enzymes 73, 279  
Antioxidant enzymes 279  
Antioxidant status 42  
Antioxidants 269  
Antioxidative therapy 154  
Aorta 116  
Apatite crystal formation 204  
Apoptosis 19, 151, 153, 162,  
270, 276  
Arsenic 202-3, 265, 268, 290  
Atheromatosis 116  
 $3\beta$ -HSD and  $17\beta$ -HSD activity  
levels 152  
Bangladesh 24  
Bcl-2 270  
Beneficial effect of Mg  
compound 273  
 $3\beta$ -HSD and  $17\beta$ -HSD activity  
levels 152  
Biochemical parameters 37  
Black tea 7, 262  
Blood lead 258  
Blood physiology 261  
Bone 273, 275, 286, 288  
Bone abnormality 204  
Bone cell cycle 19  
Bone disease 201  
Bone DNA content 19  
Bone fluoride 74  
Bone fracture 190  
Bone mass decrease 283  
Bone mineral density 190, 201  
Bone sialoprotein 271  
Bone turnover 278-9  
**Book reviews:**  
A Treatise on Fluorosis, 3rd  
ed. by AK Susheela.  
Reviewed by AW Burgstahler  
and B Spittle. 248  
Fluoride Poisoning: is fluoride  
in your drinking water—and  
from other sources—making  
you sick? by B Spittle.  
Reviewed by C Neurath. 253  
Reviewed by P Meiers. 250  
Vorsicht Fluor by M Bruker and  
R Ziegelbecker. Reviewed by  
J Spitz. 205  
Boron antidote 238  
Bottled water 262  
Brain dysfunction 257  
Brick factories 202  
Brick tea 260, 263, 278  
*British Columbia Medical  
Journal* 229  
Buccal mucosa 73  
Buffalo calves 238  
Butylcholinesterase 289  
Cadmium fluoride 269  
Caffeine 62  
Calcitonin 275  
Calcium 272-3, 275  
Calcium deficiency 184  
Calcium gluconate gel 200  
Calcium homeostasis 269  
Calmodulin 269  
Calmodulin (CaM) gene 31  
Carbohydrate metabolism 62  
Carbonic anhydrase 204  
Carbonic anhydrase activity  
51  
Caries incidence in children

- 290  
Caries prevention 150  
Caries severity in children 290  
Caries susceptibility 199  
Cashmere goats 13  
Caspase-3 276  
Caspase-8 276  
Catalase 42, 203, 268  
Catfish, *Clarias batrachus* 37  
Cell cycle 162  
Central dark line 204  
Central nervous system 269  
Cerebellum 7  
Cerebral Hemisphere 7  
Cerebrum 278  
Chewing sticks 24  
Chiang Mai Basin 263  
Children 154, 265  
Children's IQ 201, 257  
Chilies 277  
China 202, 261, 271  
China, Northeastern 274  
China, Southwestern 276-7  
Chinese tea infusion 283  
*Chlamydomonas reinhardtii* 51  
Chloramines 258  
Chlorinated water 200, 96  
Chlorine 258  
Cholesterol in rabbits 116  
Cholinergic receptors 269  
Chronic fluoride intoxication 74  
Citric acid cycle 73  
Class-V restorations 134  
Clay 271, 276  
Coal 202, 271, 277  
Coal fuel pollution 292  
COL1A1 gene 140  
COL1A2 gene 13  
COL1A2 gene polymorphisms 275  
COL2A1 gene 31  
Collagen 13  
Collagen gene expression 140, 275  
**Communication to the editor:**  
Rudolf Ziegelbecker honored by award in Graz 161  
Community fluorosis index (CFI) 71, 266  
Community periodontal index of treatment needs (CPITN) 150  
**Conference reports:**  
Current trends in fluoride research 67  
XXVIIIth Conference report 222  
Conformal laser scanning microscope 199  
Control of endemic fluorosis 286  
Cooking water 263  
6-coordinate aluminum Complexes 280  
Core-binding factor  $\alpha 1$  268  
**Correction:**  
74 (cn. of Effect of fluoride on growth and feed intake of juvenile giant freshwater prawn *Macrobrachium rosenbergii* (De-man) by S Adhikari, Ajaz Ahmad Naqvi, and N Sarangi in Fluoride 2006;39(4):313-7.)  
Correlation relations 290  
Crystal abnormality 204  
Curcumin 268  
Cytokines 272  
Daily total intake of fluoride 261  
Dean index of fluorosis 71  
Defluoridation 266, 267  
Defluoridation of water 287, 288  
Demarcated opacities 199  
Dental care costs 255  
Dental caries 71, 72, 199, 155, 264, 284  
Dental caries and chewing sticks 24  
Dental enamel 204  
Dental fluorosis 70-2, 198, 199, 128, 134, 150, 154, 155, 214, 263, 266, 275, 287, 290, 291  
Dental fluorosis prevalence 286  
Dental materials 111  
Dental practice 69  
Dentin acid corrosion 199  
Deproteinisation 291  
Dermal contact 200  
Detection limits 289  
Developmental neurotoxicity 257  
Dietary calcium 169, 190  
Dietary fluoride 72  
Dietary protein 169  
DMFS 71  
DMFT 262, 266, 281, 286  
DNA 7  
Double blind trial 153  
Down syndrome 289  
Drinking water and brick tea 283  
Drinking-water fluorosis 286  
Dual energy X-ray absorptiometry 190  
Dyspepsia 262  
**Editor's Notes:**  
Burgstahler AW 150 (two abstracts on the same study)  
Burgstahler AW 155 (ISFR and *Fluoride* policy on fluoridation)  
Burgstahler AW 200 (hazards of hydrofluoric acid)  
Burgstahler AW 214 (figures available in colour on website)  
Burgstahler AW 255 (reference to editorial by Osmunson B)  
Burgstahler AW 257 (fluoride as an emerging neurotoxic substance)  
**Editorials:**  
Fluoride neurotoxicity and excitotoxicity/microglial activation: critical need for more research 89  
Professionals mobilize to end water fluoridation worldwide 155  
The precautionary principle and "evidence-based dentistry" 4  
Water fluoridation intervention: dentistry's crown jewel or dark hour? 214  
Effects of defluoridation of water 287  
Electrolyte abnormalities 270  
Electron microscopy 204  
Elements 263  
ELISA 289  
Enamel acid corrosion 199  
Enamel defects 199  
Enamel fluorosis 284  
Endemic arsenism 202  
Endemic disease investigation 292  
Endemic fluoride area 190  
Endemic fluorosis 202, 274, 276, 277, 287, 292  
Endometrial apoptosis 72, 151  
Endometrial malondialdehyde 151  
Enrichment regularities 285  
Environmental fluoride 284  
Environmental pollution 265  
Epidemiology 260, 282  
Epidemiology of dental fluorosis 292  
Erk1/2 pathway 289  
Estonia 70, 244, 284  
Evidence-based dentistry 4  
Excessive tea consumption 201  
Excitotoxic aminoacids 89  
Excitotoxicity 89  
Extraction rate 263  
Extramammary Paget's Disease 96  
<sup>19</sup>F NMR 74  
F in chewing stick plants 24  
Fas 276  
Feltman R 254  
Fertilizers 202  
Fetal bone culture 19  
Fiber mineralization 128  
Fibroblasts 268  
Field emission scanning microscope 199  
Fingerling teleost fish 55  
Flow cytometry 19  
Fluoridated areas 255  
Fluoridated water 96, 262  
Fluoridation 214, 260, 267  
Fluoride Action Network (FAN) 155  
Fluoride activation 51  
Fluoride and bone 19  
Fluoride and catfish 37  
Fluoride and gene expression 31  
Fluoride and male mice 162  
Fluoride and sulfur dioxide 270  
Fluoride contamination 266  
Fluoride content of bottled water 262  
Fluoride dental "bomb" 214  
Fluoride exposure 46, 283  
Fluoride in drinking water 70, 152, 154, 178, 201, 203, 244, 281-2, 284, 286, 289  
Fluoride in ground water 70, 202, 263-4, 292  
Fluoride in rabbits 184  
Fluoride in tea 262, 283  
Fluoride inhibition 51

- Fluoride intake 72, 198, 262  
Fluoride intoxication 72, 74  
Fluoride ion selective electrode method 203  
Fluoride ISE potentiometry 111  
Fluoride metabolism balance 272  
Fluoride mouth rinses 266  
Fluoride neurotoxicity 89  
Fluoride pollution 13  
Fluoride risk assessment 70  
Fluoride structures in bone 74  
Fluoride toxicity 154–5, 269, 273  
Fluoride use and risks 69  
Fluorification in medicine 260  
Fluorine and arsenic 276  
Fluorine pollution 277, 282  
Fluorine research 149  
Fluorine source 292  
Fluoroacetate poisoning 73  
Fluorosed and nonfluorosed teeth 128  
Fluorosilicic acid 258  
Fluorosis 201, 259–61, 264, 267, 269, 271, 278, 279, 284, 286, 289  
Fluorosis areas 277  
Fluorosis study 152  
Fluorosis worldwide 152  
Fluorosis, endemic 291  
Foulkes RG 226  
Free radical enzymes 101  
Fresh water catfish 37  
G proteins 256  
Ganzhou district of Gansu Province 292  
Gastrocnemius muscle 278  
Gene expression 13  
Geographic information system (GIS) 70  
Geological environment 274  
Gestation and lactation 152  
Gill histopathology 55  
Glial cells 278  
Glomerular dysfunction 270  
Glucose infusion 282  
Glucose-6-phosphate dehydrogenase 154  
Glutathione peroxidase 203, 268  
Glutathione-dependent enzymes 154  
Glutathione-S-transferase 42  
Glycolysis in liver 62  
Glycolysis in serum 62  
**Guidelines:**  
Guidelines for Authors 77  
Haemogram 238  
Halogen light unit 134  
Health maintenance organizations 255  
Heart 116  
Heilongjiang 264  
Hematopoiesis 152  
Hepatic and renal dysfunction 269  
Hepatitis C 201  
Hepatocytes 282  
High alkalinity 264  
High fluoride 169  
High fluoride ration 238  
Hippocampus 101  
Histopathology 116, 278  
History of fluoride pollution 284  
History of medicine 260  
Hormones 261  
Household waste 202  
3 $\beta$ -HSD and 17 $\beta$ -HSD activity levels 152  
Human fluoride exposure 256  
Human hair follicle 153  
Human urine samples 203  
Humans 153  
Hungary 70  
Hydrofluoric acid 200, 270  
Hyperosteoridosis 153  
Hyperparathyrosis 74  
Hypocalcemia 74, 200  
Hypoplasia 199  
Hypothalamic-pituitary-testicular axis 261  
Hypothermia 200  
ICGN mice 272  
Immunohistochemistry 279  
Immunologic function 273  
**In Memoriam:**  
Bevis M 94  
Foulkes RG 226  
*In vivo* effects 272  
Indaiatuba, Sao Paulo, Brazil 199  
Index of fluorosis 264  
India school children 178  
Indoor coal-combustion 277  
Industrial chemicals 257  
Industrial pollution 284  
iNOS, 279  
Intelligence Quotient 178, 201  
Intestine histopathology 55  
Intravenous Ca and MG 200  
Intravenous infusion 269  
Iodine 265, 290  
Ion selective electrode method 288  
Iran 71, 262  
Iranian Tea 262  
Japanese children 72  
Japanese diet 72  
Jiangsu Province 261  
Jowar 266  
Karst area 276  
 $\alpha$ -ketoglutarate 282  
Kidney 116  
Kidney function 154  
Kidney histopathology 55  
Lead 265  
Lead concentrates 258  
Lead-bearing brass plumbing 258  
Leaded brass alloys 258  
Learning and memory 289  
Leukocyte 152  
Light emitting diode 134  
Linear calibration 111  
Lipid metabolism 184  
Lipid peroxidation 42, 72, 74, 151, 279  
Lipids 281  
Lithuania 199  
Liver 116, 271  
Liver function 154  
Local fluoride levels 244  
Log-normal distribution 288  
Low birth weight babies 259  
Lower Michigan 289  
Magnesium in chewing stick plants 24  
Male mice 162  
Male reproduction 152  
Malnutrition 169  
Malondialdehyde 42, 151  
Marble slurry 266  
Maternal age 289  
Maxillary central incisors 198  
Medulla oblongata 7  
Melatonin 268, 271  
Membrane lipids 269  
Metabolic acidosis 270  
México 257  
Mice 19, 267  
Microglial activation 89  
Microleakage 134  
Micronuclei 268  
Milieu Interieur theory 260  
Mitigation 287  
MMP-13 278  
Molar teeth 199  
Moldova 70  
Molybdenum 266  
Monitoring of fluorosis 286  
Monofluoroacetate 282  
Monofluorophosphate 153  
Moolenburgh H 253  
Morris water maze test 289  
Mouse brain 7  
Mouse osteocytes 19  
Mouse testis 162  
Multiple spiking addition. 111  
N-acetylcysteine 279  
Nanofiltration membrane 264  
National Research Council 155  
Neocortex 101  
Nephrotic syndrome 272  
Nervous system 265  
Neurochemical milieu 101  
Neuronal nitric oxide synthase 101  
Neuropsychological tests 265  
Neurotoxicity 256  
Neurotransmitters 101  
Newborn rat osteoblasts 31  
Nonfluoridated areas 255  
Nonspecific immunity 169  
Numerical density 291  
Nutrition 273, 274, 275  
Odontoblasts 291  
OPG 275  
OPGL 275  
Oral epidemiology 150  
Ore mining and smelting 202  
Oregon 255  
Organ weight 184  
Origin of fluoride in groundwater 285  
Ormocer resin 134  
Osteoblasts 267, 268  
Osteocalcin 74, 268, 275  
Osteomalacia 153  
Osteoporosis 153, 286  
Osteoprotegerin (OPG) 267  
Osteosarcoma 155, 280  
Osteosclerosis 201  
Oxidative stress 73, 151, 268, 269, 279  
Oxygen from photosynthesis 51  
P53 270

- PAC 287  
Paradigm 229  
Pathologic mechanism 271  
Periodontal changes 128  
Periodontal disease 150  
**Photographs:**  
Blaylock RL 224  
Chinoy J 223  
Chlubek D 224  
Images from XXVIIth  
conference 40(4):vi  
Kono K 223  
Meiers P 225  
Neurath C 224  
Ruiz-Payan A 225  
Sharma JD 223  
Spitz J 223  
Sun DJ 224  
Sun GF 223  
Susheela AK 225  
Takizawa S 224  
Tsunoda M 224  
Wang JD 224  
Zheng BS 225  
PIGE 24  
Pitting 284  
Placental F transfer 46  
Plasma fluoride 46  
Polish researchers 149  
Polymerase chain reaction  
(PCR) 140  
Posteruptive maturation 284  
Postmenopausal osteoporosis  
153  
Poznan, Poland 46  
Precautionary principle 4, 69,  
229  
Pregnancy 259  
Pregnant women 46  
Prenatal exposure delayed  
effects 265  
Primary culture 282  
Professionals' statement 155  
Proinflammatory cytokines 89  
Protective bellows shield 292  
Protein 7, 272  
Protein kinase C 101  
Proton induced gamma  
emission 24  
Public health policy 229  
Public water supply 70  
Puerto Rican children 71  
Punjab, Pakistan 202  
Purine-rich binding protein  
(PURA) gene 31  
Rabbit body composition 184  
Rabbit immune function 169  
Rabbit rib collagen 140  
Rabbits and cholesterol 116  
Radiographs 288  
Radiography 292  
Rajasthan 266  
RANKL 267  
Rat bone 74  
Rat brain and fluoride 101  
Rat buccal mucosa 73  
Rat endometrial tissue 72  
Rat fluoride study 152  
Rat fluoride treatment 151  
Rat hematology 152  
Rat hepatocytes 279  
Rat liver 62  
Rat reproduction 151  
Rat serum 62  
Rats 272  
Rats with type 1 diabetes 285-  
6  
Reactive oxygen species 203  
Real-time PCR 13, 140, 275  
Reference values 288  
Regional fluoride levels 244  
Regression 290  
Rehabilitation 288  
Renal insufficiency 201  
Reproductive endocrine  
disturbing effects 261  
Reproductive function 162  
Research topics 89  
Restricted environment 281  
Reverse transcription  
polymerase chain reaction  
(RT-PCR) 31  
Rib 13  
Rib collagen 13  
Risk-benefit analysis 155  
RNA 7  
Rock digestion 200  
Rodenticide 73  
Roe deer 281  
RT-PCR 278, 279  
Saliva 291  
Salivary indices 154  
Salivary submandibular  
glands 279  
Scanning electron microscopy  
(SEM) 128  
Serum 285, 286  
Serum electrolytes 269  
Serum fluoride 201, 261  
Serum testosterone 152  
Shaanxi province 202  
Shear bond strength 291  
Sialic acid 291  
Silicofluorides 258  
Single regression analysis 266  
Skeletal fluorosis 42, 152, 190,  
202, 261, 266, 288  
Slovakia 70  
Sodium fluoride 153, 203, 258,  
267  
Sodium fluoride in rats 62  
Sodium fluoroacetate 73  
Sodium fluorosilicate 258  
Sodium in chewing stick plants  
24  
Sodium meta arsenite 203  
Sodium selenite 153  
Soft tissue and fluoride 37, 55  
Southern Haryana, India 203  
Sperm analysis 152  
Spermatogenic cells 270  
Spira L 253  
Spittle B 250, 253  
Spleen 272  
Staining 284  
Statistica neural networks 281  
Stereology 291  
Stress fractures 201  
Sublethal dose 270  
Sulphates 202  
Sulphur 277  
Superoxide dismutase 203,  
268  
Supplemented nutrition 140  
Susheela AK 248, 253  
Swiss albino male mice 203  
Systemic fluoride 150  
TBEC (Total Body Electrical  
Conductivity) 184  
Tea-base beverage of Japan  
283  
Teeth 285  
Teleost (*Labeo rohita*) 55  
Testis and fluoride 162  
Thiobarbituric acid-reactive  
substance 203  
Thylstrup-Fejerskov index 199  
Thyroid gland 274  
Timing of F intake 198  
TIMP-1 278  
Tooth cusp fracture 214  
Tooth decay 285  
Tooth veneers 214  
Topical fluoride 150  
Total antioxidant status 279  
Toxicity 271, 281  
Toxicity of fluoride and  
aluminum 278  
Trace amounts of fluoride 289  
Trace elements 288  
TUNEL detection 151  
Type I collagen 275  
Ukraine 70  
Urinary fluoride 178, 261, 263  
Urinary fluoride and arsenic  
257  
Urinary mineral excretion 238  
Vertebral fracture 153  
Vitamins A & C 151  
Vitamins C & E 72, 151  
Vulvar Paget's disease 96  
Waldrott GL 253  
Wamiao village 261  
Washington State 255  
Water arsenic 202  
Water disinfection by-products  
96  
Water fluoridation 4, 155, 229  
Water fluoridation review 150  
Water fluoride and arsenic 257  
Water supply improvements  
286  
Water-improving 287  
Weight loss 201  
Weight of evidence 229  
Western Pomerania 280  
Western-blotting 289  
Xinhui village 261  
York Review 155  
Young premenopausal women  
283  
Zanjan 286  
Ziegelbecker R 161