

It appears that the chloride in has two different actions: one to increase the number of binding sites of NECA and another to reverse the GTP effect possibly by stimulating a GTPase. Further experiments are necessary to identify the membrane protein(s) that are regulated by chloride. This work was supported by grants from the Deutsche Forschungsgemeinschaft (Os 42/6-7) and the American Heart Association.

Author Index - Volume 23, 1983

Author	Page	Author	Page	Author	Page
Alley, R.R.	27	Graves, B.	62, 68	Rappaport, B.	14
Baratz, K.M.	31	Greger, R.F.	8	Rappaport, R.	14
Barrett, J.M.	68	Griendling, K.K.	19	Rost, B.	63
Bodznick, D.	33	Grossbard, M.	73	Sabine, S.	90
Bonilla, F.	17	Guggino, B.	79	Sacher, S.	89
Boyer, J.L.	71, 73	Halm, D.R.	81	Schantz, A.R.	27
Brainard, M.	71	Hannafin, J.A.	53	Schmidt-Nielsen, B.	57, 62, 68
Brown, R.	42, 47	Hentschel, H.	4, 62	Schurek, H.J.	63
Callard, I.P.	67, 78	Hinnueber, H.v.	79	Sheth, S.	14
Choo, J.S.	50	Hooks, C.E.	59, 61	Shuttleworth, T.J.	22, 24
Cleeman, L.	50	Kelley, G.	84, 86	Silva, M.	47
Conrad, G.W.	27	Kent, B.	17, 19	Silva, P.	1, 12, 14,
Crossley, B.	68	Kidder, E.L.	39		42, 44,
Cserr, H.F.	41	Kidder, G.W.	39		46, 47
Dawson, D.C.	26	King, P.A.	31	Silva, P., Jr.	42, 44, 46
DePasquale, M.	41	Kinne, R.	53, 57, 65	Silva, P.J.	47
Edelhauser, H.F.	30	Kinne-Saffran, E.	53, 57	Smith, P.M.	76, 77
Elger, B.	67	Kleinzeller, A.	36, 38, 77	Solomon, R.	14
Elger, M.	4, 62	Kook, T.J.	67	Sommerfeld, D.L.	27
Epstein, F.H.	12, 14, 42,	Laffan, J.L.	67	Spokes, K.C.	1, 44
	44, 46, 47	Landsberg, A.	42, 47	Sterzel, R.B.	79
Evans, D.H.	59, 61	Lee, I.B.	2	Stevens, A.	44
Farmer, L.	83	Levy, M.	17	Stokes, J.B.	2
Fletcher, L.	12	Lowenstein, J.	28	Stolte, H.	63, 65, 79
Floegel, J.	65	Mackie, K.	41	Taylor, M.	14
Fluk, L.	36	McDuffey, H.	62	Thompson, J.L.	22, 24
Forrest, J.N.	71, 83, 84,	Meryweather, M.	2	Thompson, K.	38
	86, 89, 80	Miller, S.S.	81	Thorndyke, M.C.	24
Frizzell, R.A.	81	Morad, M.	50	Towle, D.W.	10
Fuller, E.O.	17, 19	Myers, M.	47	Tsang, P.	78
Gifford, D.R.	84, 86	Naftalin, R.J.	76, 77	Vickermann, B.	53, 57
Goldstein, J.	31	Neumann, K.H.	63	Wheaton, D.J.	30
Goldstein, L.	31	Northcutt, R.G.	33		
Goldstein, S.R.	31	Osswald, H.	84, 89, 90		
Gordon, E.R.	71, 73				

Subject Index - Volume 23, 1983

Subject	Page	Subject	Page
acid secretion	39	archinephric duct	65
adaptation	28	ATP	84
adenosine	12, 42, 84, 86	basal-lateral membranes	57
adenosine deaminase	84	bile secretion	71, 73
adenosine receptors	84, 86, 89, 90	bilirubin	73
adenyl cyclase	42, 86	bladder	2, 26
albumen permeability	63	blood brain barrier	41
amphotericin	26	brush border membranes	57, 65
anion selectivity	26	bumetanide	12
antipyrylazo	50	calcium	27
aortic pressure	17		

Subject	Page	Subject	Page
calcium depletion	50	liver	71
<i>Carassius</i>	28	loop diuretics	53
<i>Carcinus</i>	10	magnesium	81
catecholamines	22	membrane vesicles	10
cell culture	83	mesangium	79
chloride	26, 81	mesencephalon	33
chloride cell	4	mesenteric artery	19
chloride secretion	8, 14, 47, 84, 86	methyl glucamine	47
chloride transport	53	methyl glucose	38
chloroadenosine	71	methyl xanthine	42
cleavage furrow	14	metolazone	2
collecting	1	mitosis	14
corneal hydration	30	monensin	10, 44
countercurrent	62	mussel	27
crab	10	<i>Myoxocephalus</i>	30
cyclic AMP	42, 44, 46, 47, 71	<i>Mytilus</i>	27
cyclic nucleotides	81	<i>Myxine</i>	4, 61, 63, 65, 79
cytokinesis	27	NaClK cotransport	8, 53, 77
deoxygalactose	38	NaCl transport	2
dogfish (see <i>Squalus</i>)		Na K ATPase	10, 28
dogfish pup	59	nitrate	47
<i>Echinorachnius</i>	14	osmotic stress	41
electrosensory	33	ouabain	44
epinephrine	59	ovarian granulosa	78
epithelial transport	26, 31	oviduct	67
estradiol	67, 78	oxygen consumption	44
ethylmaleimide	90	paracellular pathway	46
filtration, nephron	63	peptide	24
flounder (see <i>Pseudopleuronectes</i>)		perfused head	59
forskolin	12, 42, 71	phloridzen	65
frog (see <i>Rana</i>)		plasma osmolarity	14
furosemide	8, 77	potassium	81
galactose	38, 77	progesterone	78
gastric mucosa	39	<i>Pseudopleuronectes</i>	2, 26, 31, 38, 76, 77, 81
gill	4, 10	rabbit	76
glomerulus	63	<i>Raja</i>	12, 39, 41, 62, 71, 73
gluconate	47	<i>Rana</i>	50, 57
glucose	38	rat	68
glucose transport	65	reabsorption	62
goldfish	28	rectal gland	8, 12, 14, 17, 22, 24, 36, 42, 44, 46, 83, 84, 86, 89, 90
<i>hagfish</i> (see <i>Myxine</i>)		reduced protein intake	68
heart muscle	50	renal adaptations	68
hemodynamics	22, 59	renal morphology	68
hemorrhage	17	RNA	19
histamine	39	rubidium	28, 77
hormone	24	sand dollar	14
<i>Ilyanassa</i>	27	sculpin	30
intestine	38, 81	short circuit current	38
intracellular ions	44	snail	27
intracellular pH	36	sodium	81
in vitro incubation	78	sodium flux	61
ionocytes	4	sodium secretion	47
iron dextran	79	sodium transport	10
kidney, frog	57	somatostatin	42
kidney, hagfish	65, 79	<i>Squalus</i>	8, 14, 17, 19, 22, 24
kidney, rat	68		30, 33, 36, 42, 44, 46,
kidney, skate	62		47, 53, 59, 67, 78, 83, 84, 86, 89, 90

Subject	Page
stress	59
sugar transport	57
sulfate	76
taurine	31
tectum	33
testosterone	78
thiazide	2
torus semicircularis	33
triaminopyrimidine	46
trimethylamine	36
urea	62
urea efflux	59
uterine artery	19
vascular smooth muscle	28
vasodilation	22
verschlussvorrichtung	67
VIP	12, 42
voltage clamp	39
volume expansion	14
volume load	17