

7. Appendix

This study was attended by Dr. Kenan Maric and Prof. Dr. Walter Rosenthal. The experimental work was performed at the FMP-Berlin, in Walter Rosenthal 's group.

7.1 Publications in which parts of this work appeared

Publications:

Storm R, Klusmann E, Geelhaar A, Rosenthal W, Maric K. Osmolality and solute composition are strong regulators of AQP2 expression in renal principal cells. *Am J Physiol* 284(1): F189-198, 2003

Presentations:

R. Storm, K. Maric, E. Klusmann, A. Geelhaar, W. Rosenthal. Osmolality and solute composition regulate aquaporin-2 expression in primary cultured renal principal cells. (Abstract: www.ndif-org/conf02/pab-storm02.html). *Presentation, NDI Conference in Hemskeerk, The Netherlands - April 26 - 28, 2002*

7.2 Abbreviations

AC	adenylyl-cyclase
AKAP	A kinase anchoring protein
APS	ammonium persulfate
AQP	aquaporin
AR	aldose reductase
AVP	8-arginine-vasopressin
BGT-1	sodium/chloride/betaine cotransporter
bp	base pair
BSA	bovine serum albumin
C	Celsius
c	centi
cAMP	cyclo-adenosine-monophosphate
CBB	Coomassie Brilliant blue G 250
cDNA	complementary DNA
Ci	Curie
cpm	counts per minute
CRE	cAMP responsive element
CREB	CRE-binding protein
Da	Dalton
dATP	desoxyadenosinetriphosphate
DBcAMP	dibutyryl-cAMP
dCTP	desoxycytosinetriphosphate
dDAVP	Desmopressin
DEPC	diethylpyrocarbonate
DMEM	Dulbecco's modified Eagle's medium
DMSO	dimethylsulfoxide
DNA	desoxyribonucleic acid
dNTP's	desoxynucleosinetriphosphate
DTT	dithiothreitol
EDTA	ethylenediaminetetraacetate
ENaC	epithelial sodium channel
ERK	extracellular-signal-regulated kinase

EtOH	ethanol
FCS	fetal calf serum
g	gram
g	gravity
GDP	guaninediphosphate
GTP	guaninetriphosphate
HRE	hypertonicity-responsive element
HSP	heat-shock protein
IMCD	inner medullary collecting duct
KID	kinase inducible domain
k	kilo
l	liter
λ	wave length
μ	micro
m	milli
M	Mole
m	meter
MAPK	mitogen activated protein kinase
MDCK	madine darby canine kidney
MeOH	methanol
MG-132	carboboxy-L-leucyl-L-leucyl-L-leucinal
mIMCD	mouse IMCD
min	minute
n	nano
NaCl	sodium chloride
NDI	Nephrogenic diabetes insipidus
NHE	sodium proton exchanger
NPA	asparagine-proline-alanine
OD	optical density
osmol	unit for the amount of 6.022169×10^{23} osmotically relevant particles
PAGE	polyacrylamide gel electrophoresis
PBS	phosphate buffered saline
PD 98059	2'-Amino-3'-methoxyflavone

PDE	phosphodiesterase
PFA	paraformaldehyde
PKA	protein kinase A
PKC	protein kinase C
POD	peroxidase
RNA	ribonucleic acid
rpm	rotations per minute
RT	room temperature
SB 203580	4-(4'-Fluorophenyl)-2-(4'-methylsulfinylphenyl)- 5-(4'pyridyl) imidazole
SDS	sodiumdodecylsulfate
SMIT	sodium-myo-inositol cotransporter
SSC	citrate-sodium chloride
TAE	Tris-acetate-EDTA-buffer
TBS	Tris-buffered saline
TE	Tris-EDTA-buffer
TEMED	N,N;N';N'-Tetramethylethyldiamine
TonE	tonicity responsive element
TonEBP	TonE-binding protein
Tris	Tris-hydroxymethyl-aminomethane
UT	urea transporter
V	Volt
v	volume
V ₂ R	vasopressin-V2 receptor
w	weight