

**Functional and molecular characterization of receptor-
activated cation currents in a vascular smooth muscle
cell line: A role for TRPC channels.**

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Abbreviations

AA	arachidonic acid
AlF ₄ ⁻	aluminium fluoride
AT II	angiotensin II
AVP	[Arg ⁸]-vasopressin
[Ca ²⁺] _i / [Ca ²⁺] _o	intracellular/ extracellular calcium concentration
BAPTA	1,2-bis(2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid
bp	base pair(s)
cADPR	cyclic adenosine diphosphoribose
CCE	capacitative calcium entry
cDNA	complementary deoxyribonucleic acid
cGMP	cyclic guanosine monophosphate
CICR	calcium-induced calcium release
C _m	membrane capacitance
C(N)-terminal	carboxy(amino)-terminal
cpm	counts per minute
DAG	Diacylglycerol
DEPC	diethyl pyrocarbonate
DMEM	Dulbecco's modified Eagle's medium
DMSO	dimethyl sulphoxide
EDTA	ethylenediaminetetraacetic acid
EGTA	ethylene glycol-bis(β-aminoethylether)-N,N,N',N'-tetraacetic acid
ER (SR)	endoplasmic (sarcoplasmic) reticulum
ET I	endothelin I
F ₃₄₀₍₃₈₀₎	fura-2 fluorescence at 340 (380) nm excitation
FFA	flufenamate
γ	single-channel conductance
GAPDH	glyceraldehyde-3-phosphate dehydrogenase
G protein	GTP-binding protein
HEPES	N-2-hydroxyethylpiperazine-N'-(2-ethanesulphonic acid)
5-HT	5-hydroxytryptamine (serotonin)
<i>I</i> , <i>i</i>	whole-cell current, single-channel current
IC ₅₀	concentration of half-maximal inhibition
I _{CRAC}	calcium release-activated calcium current
InsP ₃ (R)	inositol-1,4,5-trisphosphate (receptor)
InsP ₄	inositol-1,3,4,5-tetrakisphosphate
<i>I-V</i>	current-voltage
LIC	light-induced current
LOC	ligand-operated channel
MAEC	mouse aortic endothelial cells
MEM	minimum essential medium

MOPS	3-[N-morpholino]propanesulphonic acid
m(r/t)RNA	messenger (ribosomal / transfer) ribonucleic acid
NA	noradrenaline
NAADP	nicotinic acid adenine dinucleotide phosphate
NMDA	N-methyl-D-aspartate
NMDG	N-methyl-D-glutamine
NPPB	5-nitro-2-(3-phenylpropylamino)-benzoic acid
OAG	1-oleoyl-2-acetyl- <i>sn</i> -glycerol
PDGF	platelet-derived growth factor
P_o	open probability
PIP ₂	phosphatidylinositol-4,5-bisphosphate
PKC	protein kinase C
PLC	phospholipase C
PMA	phorbol 12-myristate 13-acetate
RACE	rapid amplification of cDNA ends
RNase	ribonuclease
ROC	receptor-operated channel
(RT)-PCR	(reverse transcription) polymerase chain reaction
RyR	ryanodine receptor
SDS	sodium dodecyl sulphate
S.E.M.	standard error of the mean
SERCA	sarco/endoplasmic reticulum calcium adenosine triphosphatase
SOC	store-operated channel
TM	transmembrane segment
Tris	Tris-(hydroxymethyl)aminomethane
TRP	transient receptor potential
UTR	untranslated region
V	voltage
v/v	volume/volume
VNO	vomer nasal organ
VOC	voltage-operated calcium channel