CHARACTERIZATION OF 1-ACBP, B-ACBP AND PBR IN OESOPHAGEAL CANCER.

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A dissertation submitted to the Faculty of Science, University of the Witwatersrand, Johannesburg, in fulfilment of the requirements for the degree of Master of Science

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DECLARATION

I (Michelle McCabe) declare that this thesis is my own work. It is being submitted for the Degree of Master of Science in the University of the Witwatersrand, Johannesburg. It has not been submitted before for any degree or examination in any other University.

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(Signature of candidate)

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DEDICATION

I dedicate this work to my family, especially my mother and father for their love, patience and support, my three brothers for their love and support and hope that it will inspire them, and to my late sister who passed away from brain cancer inspiring me to be who I am today. And to everyone who supported me during my studies.

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Abbreviations:

5-FU	5-fluorouracil
ACBP	AcylcoenzymeA binding protein
AINs	Apoptosis inducing nucleosides
ANC	Adenine nucleotide carrier
Apaf-1	Apoptosis activating factor 1
APC	Adenomatous polyposis coli
BAAC	Barrets oesophagus associated adenocarcinoma
BCH	Basal cell hyperplasia; BE, Barret's Esophagus
Bcl-2	B-cell lymphoma mutant #2
Bcl-xl	B-cell lymphoma extra long
cAMP	Cyclic adenosine monophosphate
CDDP	Cisplatin
CDK	Cyclin dependent kinase
CNS	Central Nervous System
COX-2	Cyclooxygenase 2
CSNK	Casein kinase
CTSB	Cathepsin B;
DBI	Diazepam binding inhibitor (DBI)
DcR3	Decoy receptor member 3
DISC	Death inducing signalling complex

DLC1	Deleted in lung cancer 1
EMR	Endoscopic mucosal resection
FasL	Fas receptor ligand
GASC1	Gene amplified in squamous cell carcinoma 1
iNOS	Inducible nitric oxide synthase
Lef	Lymphoid enhancer binding factor
LOH	Loss of Hetereozygosity
LOI	Loss of imprinting
MMP-7	Matrix metalloproteinase-7
MPTP	Mitochondrial Permeable Transition Pore
MT	Metallothionein; MTX, Methotrextate
ODC	Ornithine Decarboxylase
P450scc	Cytochrome P450 enzyme
p53	Protein with molecular weight ~53kD
p63	Protein with molecular weight ~63kD
p73	Protein with molecular weight ~73kD
PARP	Poly-ADP-ribose polymerase
PBR	Peripheral Benzodiapine-type Receptor
PCNA	Proliferating cell nuclear antigen
PDT	Photodynamic therapy
pRb	Retinoblastoma protein

Rb	Restinoblastoma
Tcf	T cell specific transcription factor
TNF-ß	Tumor necrosis factor- ß
TSGs	Tumour Suppressor Genes
VDAC	Voltage-dependant anion channel
WWOX	WW domain containing oxireductase