

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَقُلْ رَبِّ
زِدْنِي عِلْمًا

صَدَقَ اللَّهُ الْعَظِيمُ

سورة طه: آية (١١٤)

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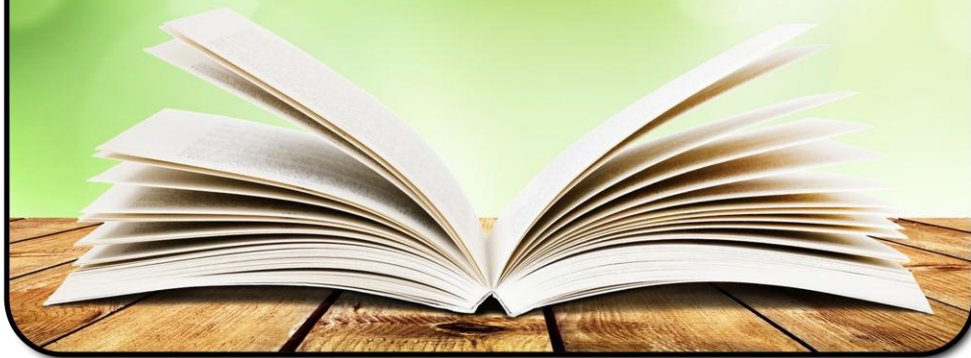
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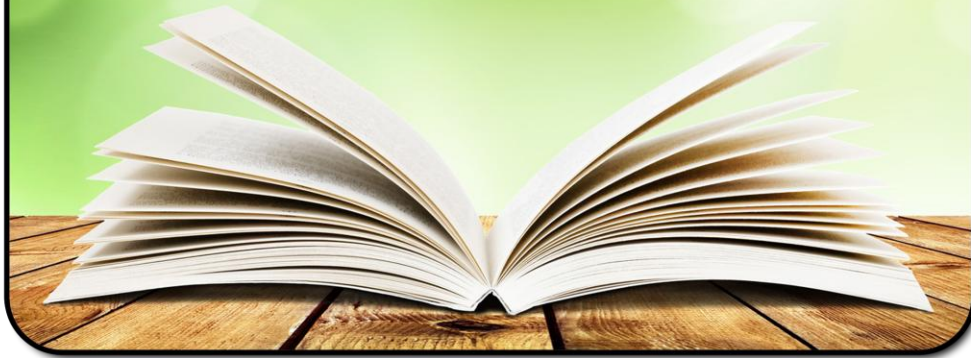
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INTRODUCTION

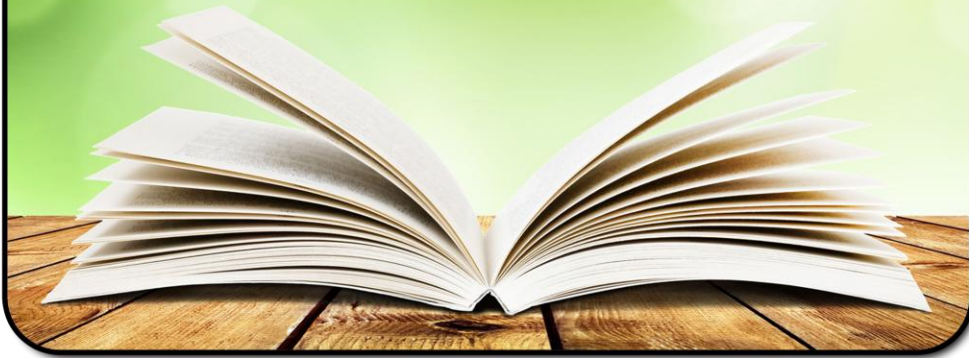


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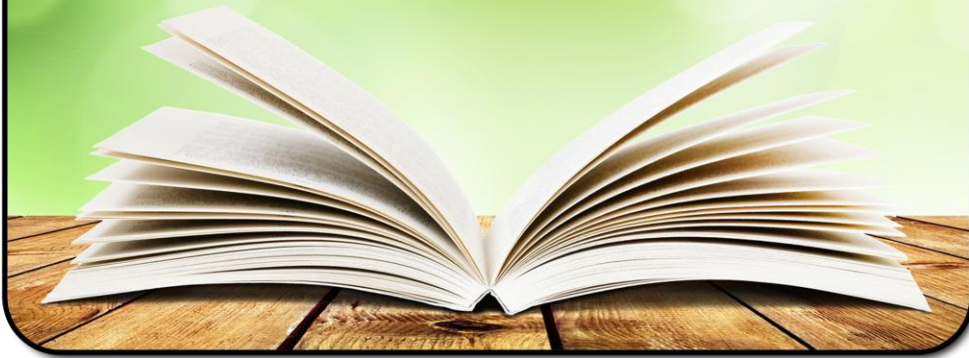


CHAPTER ONE

WNT SIGNALING



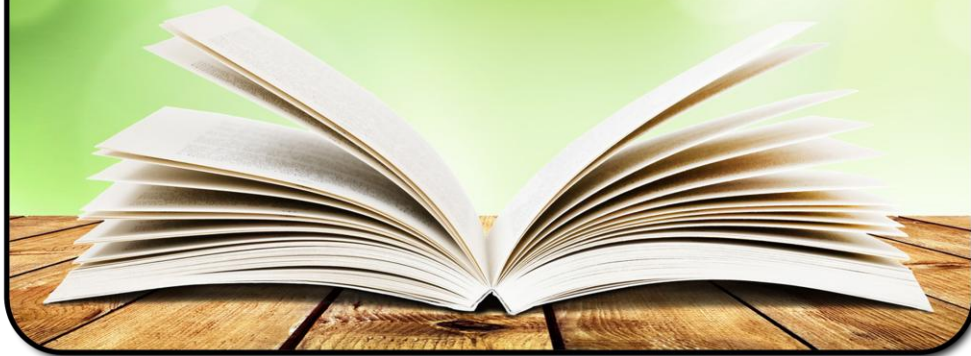
CHAPTER TWO
WNT SIGNALING
PATHWAYS IN
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DISEASES



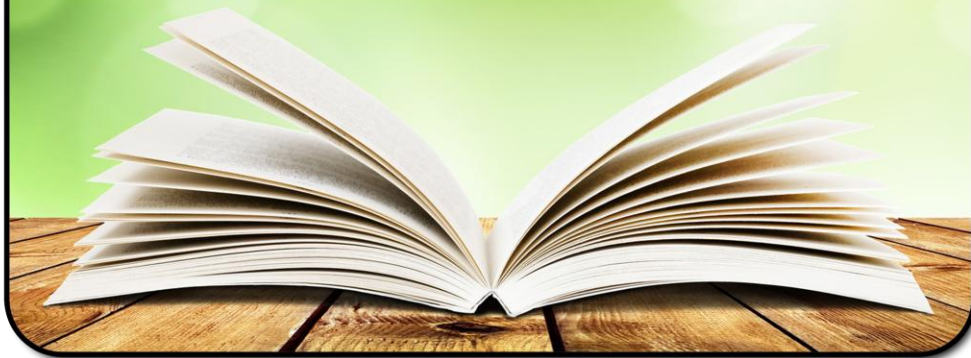
CHAPTER THREE

WNT SIGNALING

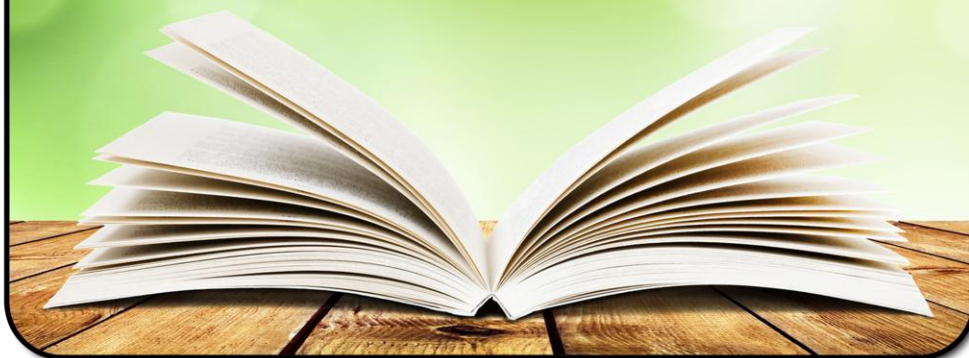
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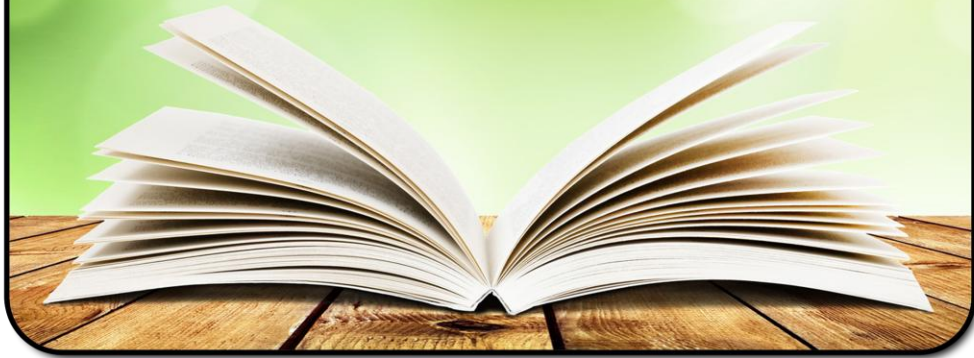
SUMMARY



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ARABIC SUMMARY



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List of Abbreviations

AC	Adenylyl Cyclase
AGA	Androgenic Alopecia
ALP	Alkaline Phosphatase
APC	Adenomatous Polyposis Coli
AR	Androgen Receptor
BCC	Basal Cell Carcinoma
BCL9	B-cell CLL/Lymphoma 9 Protein
BMP	Bone Morphogenetic Protein
CAMP	Cyclic Adenosine Monophosphate
CAMK II	Ca ²⁺ /calmodulin-Dependent Protein Kinase II
CBF-alpha	Core-Binding Factor Alpha
CK1	Casien Kinase 1
CBP	CREB-Binding Protein
CREB	cAMP Response Element Binding Protein
CTGF	connective Tissue Growth Factor
DACT1	Dishevelled-Binding Antagonist of Beta-Catenin 1
Daam1	Dishevelled Associated Activator of Morphogenesis 1
DKK	Dickkopf
DP	Dermal Pailla
DVL	Dishevelled
EGF	Epidermal Growth Factor
EMT	epithelial-Mesenchymal Transition
EPHB	Ephrin type-B Receptors.
FBN-1	Fibrillin-1
FGFs	Fibroblast growth factors
FRZB	frizzled-Related Protein
FZD	Frizzled Protein
GSK3	Glycogen Synthase Kinase 3
HAT	Histone Acetyl Transferase
HF	Hair Follicle
HDAC	Histone Deacetylases
Hh	Hedgeohog Pathway

List of Abbreviations (Cont.)

HMG	.....	High Mobility Group
HMT	.....	Histone Methyltransferase
HR	.....	Hairless Protein
HSCs	.....	Hematopoietic Stem Cells
IFE	.....	Interfollicular Epidermal Cells
IL	.....	Interleukin
Int	.....	Integration
IPF	.....	Idiopathic Pulmonary Fibrosis
JNK	.....	C-Jun N-Terminal Kinase
LEF	.....	Lymphoid Enhancer Factor
LRP	.....	Low Density Lipoprotein Receptor-Related Protein
LOF	.....	Loss of Function
Macf1	.....	Microtubule Actin Cross-Linking Factor 1
MITF	.....	Microphthalmia-associated Transcription Factor
MCC	.....	Merkel Cell Carcinoma
miRNA	.....	Micro RNA
MMP	.....	matrix Metalloproteinase
MMTV	.....	Mouse Mammary Tumor Virus
MSH	.....	Melanocyte Stimulating Hormone
MuSK	.....	Muscle, Skeletal Receptor Tyrosine Kinase
NCC	.....	Neural Crest Cell
NFAT	.....	Nuclear Factor of Activated T-cells
NRH1	.....	Neurotrophin Receptor Homolog 1
PCP	.....	Planar Cell Polarity (pathway)
PAF1	.....	Polymerase Associated Factor 1
PDP	.....	Pachydermoperostosis
PG	.....	Prosta Glandin
PKA	.....	Protein Kinase A
PKC	.....	Protein Kinase C
PORCN	.....	porcupine homolog – Drosophila
PP1	.....	Protein Phosphatase 1
PP2A	.....	PROTEIN Phosphatase 2A
PPAR	.....	Peroxisome Proliferator-Activated Receptors

List of Abbreviations (Cont.)

PsA	Psoriatic Arthritis
Pygo	Pygopus
ROR	Receptor Tyrosine Kinase-Like Orphan Receptor
Rspo	R-Spondin
RUNX2	 Runt-related transcription factor
RYK	RYK Receptor-Like Tyrosine Kinase
SCC	Squamous Cell Carcinoma
SCF	Stem Cell Factor
sFRP1	Secreted Frizzled Related Protein 1
SmoM	Smoothed
SWI/SNF	Switch/Sucrose Non Fermentable
siRNA	Small Interfering RNA
TCF	T-cell Transcriptional Factor
TLE	Tansducin Like Enhancer Protein
TNF	Tumor Necrosis Factor
TY	Tyrosinase
UV	Ultraviolet
Wg	Wingless
WIF	Wnt Inhibitory Factor
WISE	Wnt modulator in surface ectoderm
WRE	Wnt Responsive Element

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