

Contents

Subject	Page
Introduction	1
Aim of the work	3
Review of Literature	4
I- Colorectal carcinoma	4
Epidemiology	4
Risk Factors	6
Aetiology	8
Molecular mechanisms	12
Prognostic factors of colorectal cancer	20
II- Stem cells	40
Criteria of stem cells	40
Classification of stem cells	41
III- The Cancer Stem Cells (CSCs) Hypothesis	48
Regulation of Intestinal Stem-Cell (ISC) Function:	49
Intestinal stem cells and cancer	53
Colon Stem Cell Markers	59
IV -Lgr5/Gpr 49 receptor	60
-Material and methods	64
-Results	68
-Discussion	106
-Summary and Conclusion	112
-Recommendation	115
-References....	116
-Arabic summary	