

LIST OF FIGURES

Figure	Page
2.1 Tumor recognition models of NK cells.....	7
2.2 Mechanisms of NK cells cytotoxicity.....	8
2.3 Structure of Yhhu-3792	15
2.4 Structure of lipopolysaccharide	16
2.5 Distinct characteristics of NK cells	17
2.6 Anti-cancer activity of the expanded CBNK cells.....	19
2.7 Efficiency of the living treatment.....	20
2.8 Effect of cryopreservation on NK cell cytotoxicity	22
3.1 The schematic diagram of the experiment used to stimulate the expansion of CBNK cells	34
3.2 The schematic diagram of the upscaling expansion experiment.....	35
3.3 The schematic diagram of the flow cytometry-based NK cytotoxicity assay	37
3.4 The schematic diagram of the microscopic-based NK cytotoxicity assay	38
3.5 Morphology of the expanded cells at day 14	40
3.6 The effect of LPS and YHHU on proportion of CBNK cells.....	40
3.7 The percentage of CD3 ⁺ T cells over the 14-day expansion	41
3.8 The effect of LPS concentration on CCK-8 response.....	42
3.9 The percentage of NK cells in different LPS concentrations	42
3.10 Upscaling expansion of NK cells using the LPS stimulation approach	43
3.11 The gene expression levels of <i>IL2Rβ</i>	44
3.12 Immunophenotype profile of the expanded cells.....	45
3.13 Cytotoxicity of the expanded CBNK cells against K562 tdTomato- tagged cells	46
3.14 Cytotoxicity of the expanded CBNK cells against MIA PaCa-2 tdTomato- tagged cells	47

LIST OF FIGURES (Continued)

Figure	Page
3.15 Cytotoxicity of the expanded CBNK cells against SKOV3 tdTomato-tagged cells	47
3.16 Anti-cancer activities of expanded CBNK cells	48