

免疫調節食品功效評估

- 動物或人體試食試驗
 - 吞噬細胞活性
 - 自然殺手細胞活性
 - 脾臟或淋巴結細胞增殖反應
 - 脾臟或淋巴結細胞表型分析
 - 抗體分泌實驗?
 - 細胞激素分泌實驗?

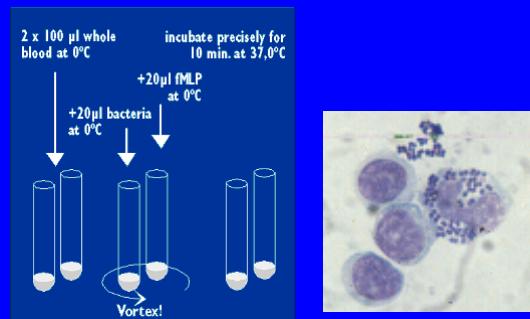
試驗分類

- 細胞免疫試驗
 - Con A/ LPS 刺激脾臟
細胞增生反應
- 體液免疫試驗
 - 抗體分泌實驗
 - 細胞激素分泌實驗
- 非特異性免疫試驗
 - 自然殺手細胞活性/
CTL細胞活性
 - 單核—巨噬細胞功能
- 免疫毒理試驗
 - 脾臟/體重 比值
 - 脾臟總細胞數
 - 脾臟細胞表型分析

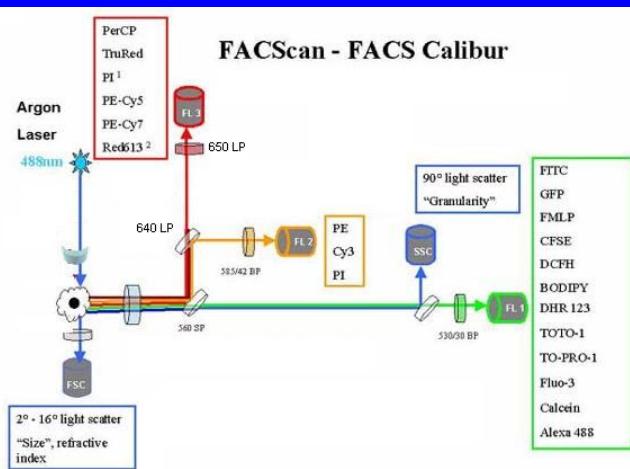
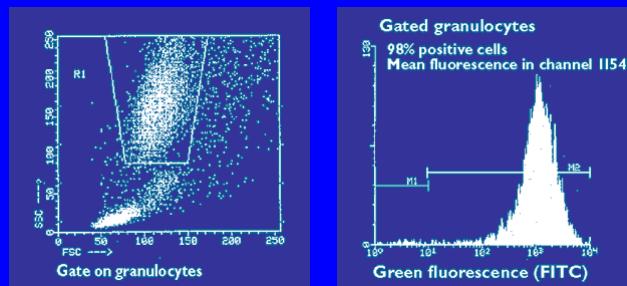
細胞吞噬力

- See if phagocytes (granulocyte and monocyte) can phagocytose pathogenic bacteriae, ie E. coli.
- Bacteria markers: fluorescein.
- Leukocyte markers: PI.

細胞吞噬力



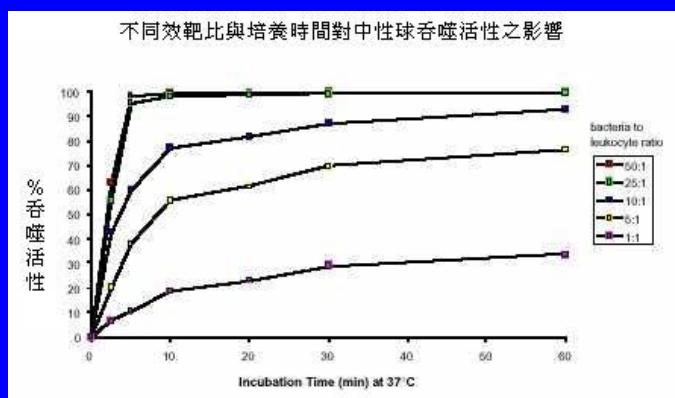
細胞吞噬力



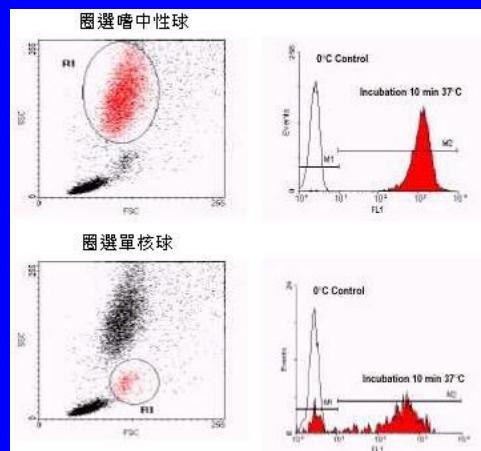
實驗注意項目

- Bacteria storage is important.
- Effector cell viability is important.
- Discrimination of internal/external bugs
 - Quenching by icy cold acidic trypan blue soln.
 - PBS Washing twice.
 - FACSlyse and one more PBS washing.
- Helpful with DNA staining of leukocytes.

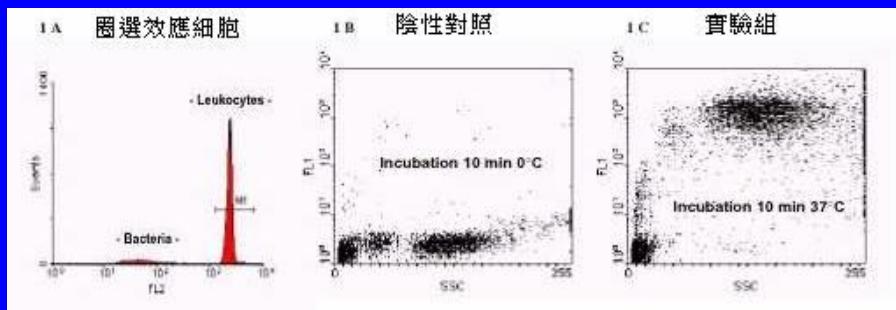
細胞吞噬力

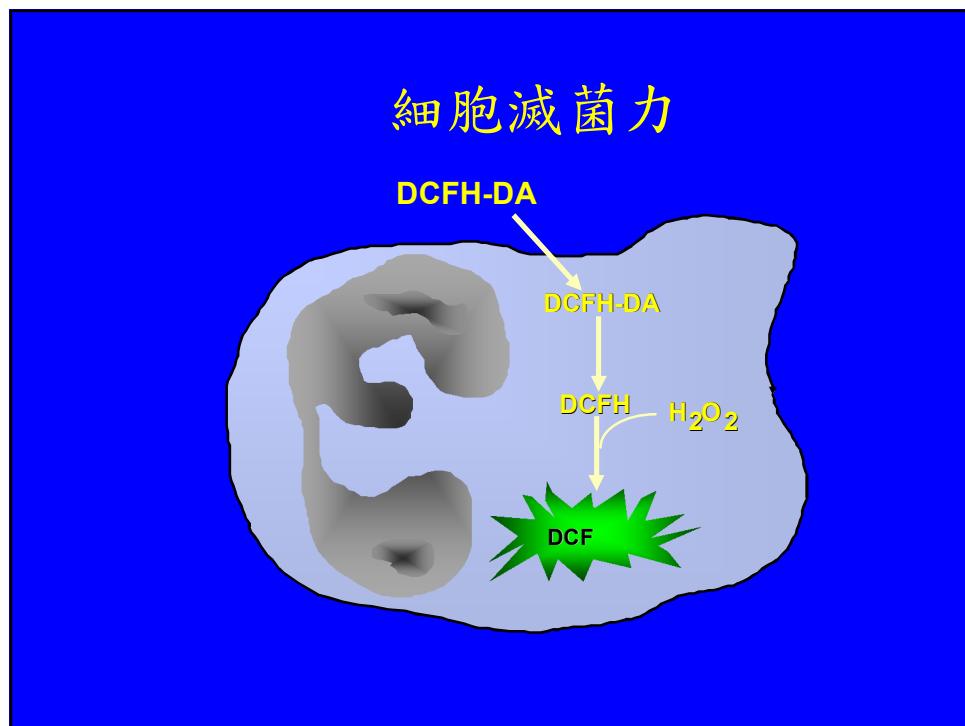
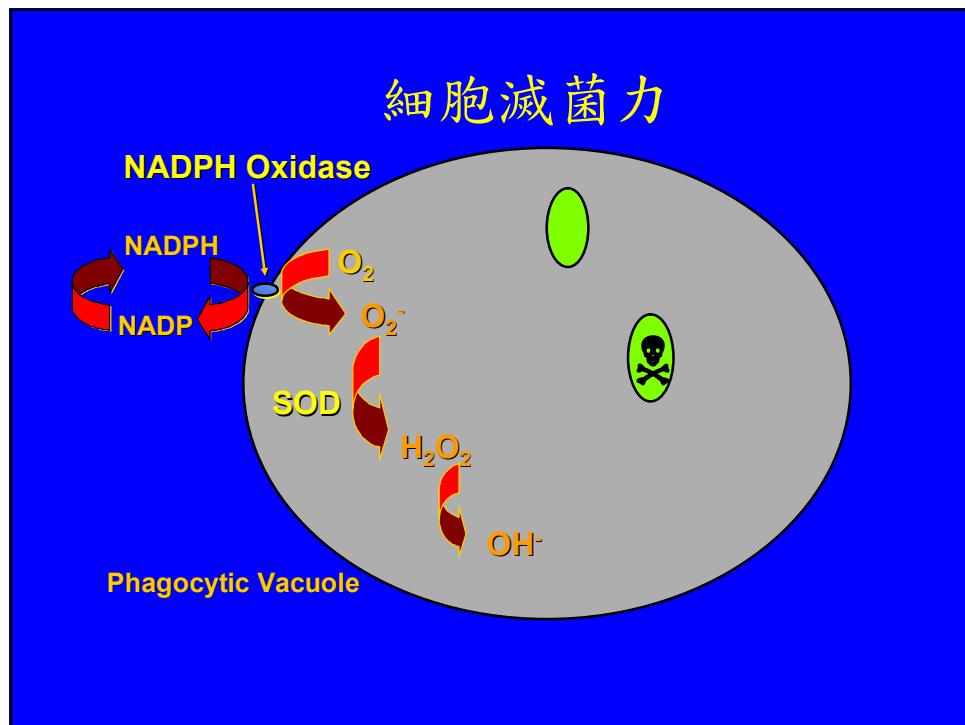


細胞吞噬力



細胞吞噬力

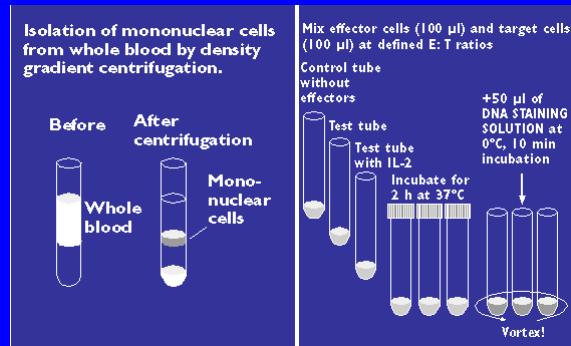




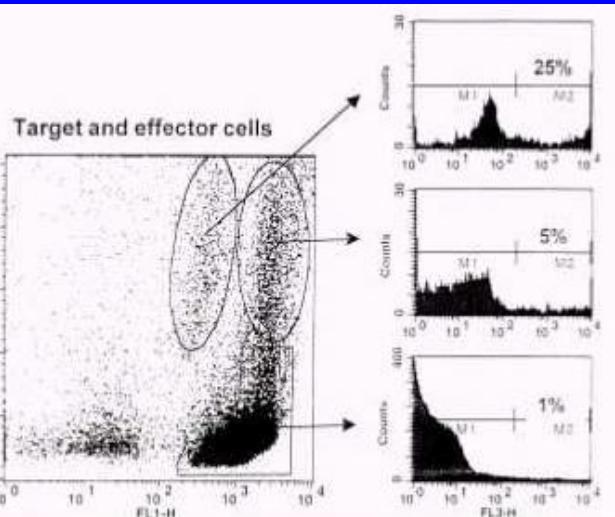
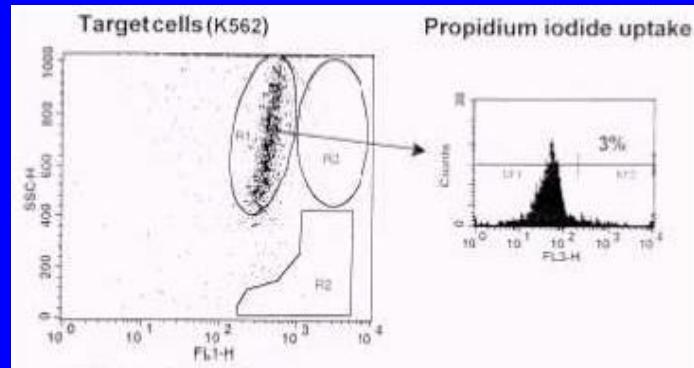
NK細胞毒殺力

- See if NK cells can launch a cytotoxic attack to target tumor cells, ie K562 cells.
- NK markers: CD16 and/or 56
- Viability markers: PI

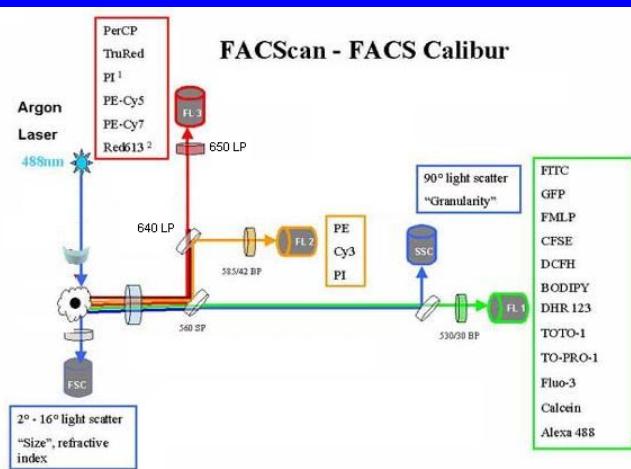
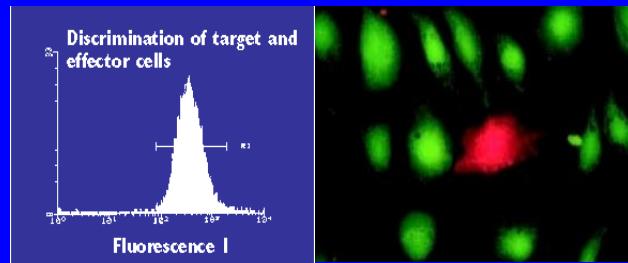
NK細胞毒殺力



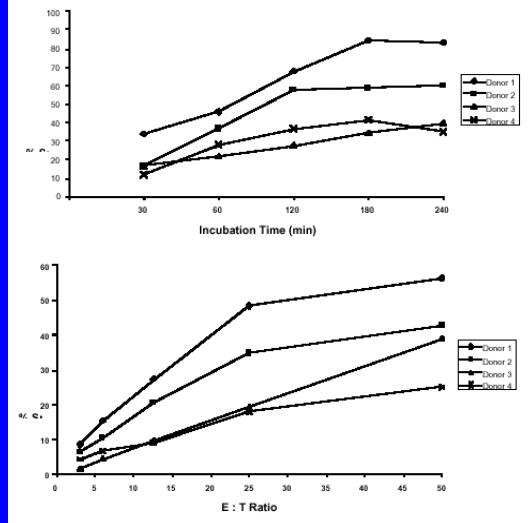
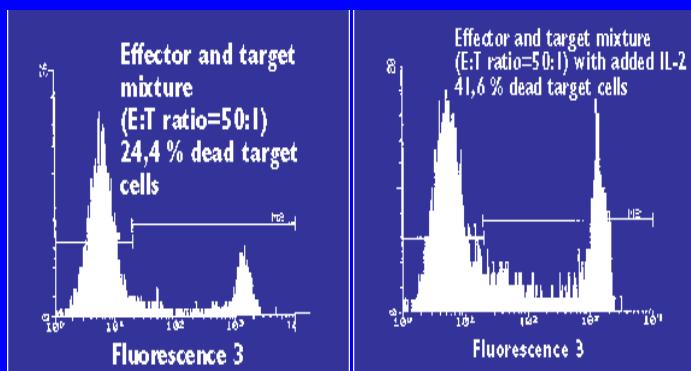
NK細胞毒殺力



NK細胞毒殺力



NK細胞毒殺力



實驗注意項目

- Can pre-labeled K562 cells and stored for later use.
- Viability of both effector and target cells is important.
- E/T ratio needs adjustment.
- Presumption: all dead cells are killed by NK cells (Cytometry 12:717-722).