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研究主題：

前列腺癌之發生率及致死率會因人種及區域而不同，雖然一般皆認為在亞洲之中國人得到前列腺癌之機率遠較西方人低。利用衛生署過去二十年來，台灣地區前列腺癌通報之資料作一對人種、地區、及年齡之統計分析，我們發現雖然前列腺癌之發生率及致死率在台灣地區與歐美國家比較仍相當低，但其之發生率及致死率卻逐年增加。在過去二十年內，台灣地區因前列腺癌致死之人口比率已增加一倍。此統計結果證實除了受老化人口急劇增加之因素外，應仍受其它未知因素(如微量離子,遺傳基因等)影響。膀胱癌是最常好發於泌尿道的癌症之一，在全世界統計曾指出膀胱癌亦是好發癌症總排名的第五位。根據台灣的

統計膀胱癌亦是第四位好發的泌尿道腫瘤。因為膀胱癌的症狀不太明顯，僅以血尿為主，因此膀胱癌的診斷不易，所以找尋一種敏感度及專一性高的診斷工具是我們極需努力的方向。故本實驗室主要是探討關於前列腺、癌膀胱癌與乳癌演變時之特定 oncogenes, tumor suppress genes, metastasis induce genes 之基因調控機制，利用 *in vitro* 細胞株與 *in vivo* 動物實驗來證實藥物與荷爾蒙在前列腺癌、膀胱癌與乳癌對特定基因之作用與細胞癌化演變所扮演之功能，並嘗試利用抗癌藥物或傳統中草藥來控前列腺癌、膀胱癌與乳癌之演變。

主要研究目標

1. 生殖生理 (Reproduction physiology)
2. 分子內分泌 (Molecular endocrinology)
3. 細胞代謝 (Cellular metabolism)
4. 基因調控 (Gene regulation)
5. 前列腺癌 (Prostate cancer)
6. 膀胱癌 (Bladder cancer)
7. 乳癌 (Breast cancer)

近年研究主題

1. 調控代謝之基因轉錄於前列腺
2. 微量離子對前列腺與膀胱癌之影響
3. 雄性素受體與甲狀腺素受體對前列腺之調控
4. 調控前列腺癌轉移之機制與探討膀胱癌之腫瘤標的基因
5. 維他命 D 對乳癌、肝癌、與膽道癌之機制
6. 探討口腔癌與鼻咽癌之致病因子

成果與著作：

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