Overexpression of Matrix Metalloproteinases in Prostate cells by *Propionibacterium acnes*

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*P. acnes* + Prostate epithelial cells

INCREASED MMP-1 AND -9 EXPRESSION

MMP-1

β-actin

Control 9 days 16 days 21 days

Control IA 24 hrs IA 48 hrs IB 24 hrs IB 48 hrs

Proteolysis of ECM

MMP-9

ECM

Endothelial cells