GENE EXPRESSION IN PROKARYOTES & EUKARYOTES Eukaryotes Prokaryotes HOW ALIKE HOW DIFFERENT WITH REGARD TO

GENE EXPRESSION (TEACHERS COPY) Prokaryotes Eukaryotes HOW ALIKE **Both contain structural genes Both use RNA polymerase** Both involve the process of transcription **Operate with feedback** HOW DIFFERENT WITH REGARD TO **Clustered** Position of genes together into an **Separated** operon Introns **None Contains introns Nuclear** Transcription & membrane translation **Occurs** prevents both simultaneously occurring at once All genes are Regulation of **Genes switched** genes switched on at on separately once Initial Regulatory activation **Enhancers** genes

Reference

Supplementary Material Genetics & Evolution Level 3, Crown January 2006.