

**Corso di BIOTECNOLOGIE VEGETALI**

**Biotecnologie applicate alla Floricoltura**

*A cura di*

*Pierdomenico Perata & Elena Loreti*

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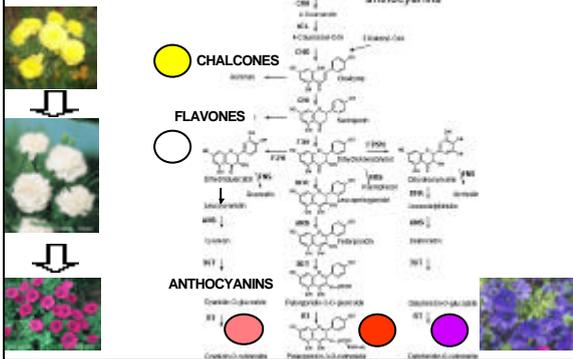
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**Biotecnologie floricole**




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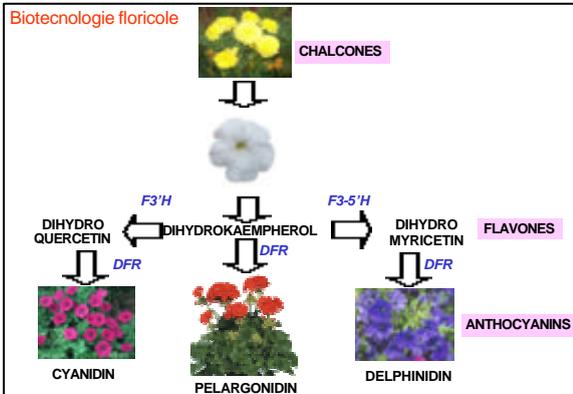
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**Biotecnologie floricole**




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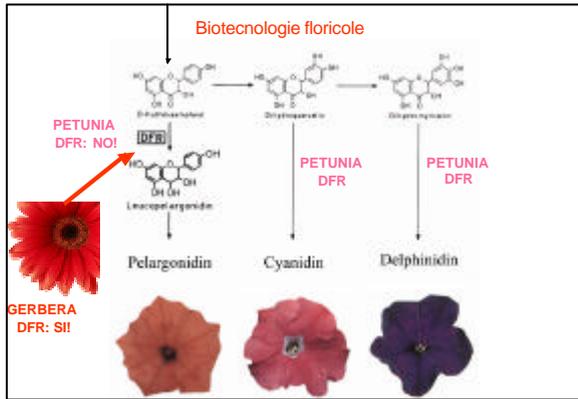
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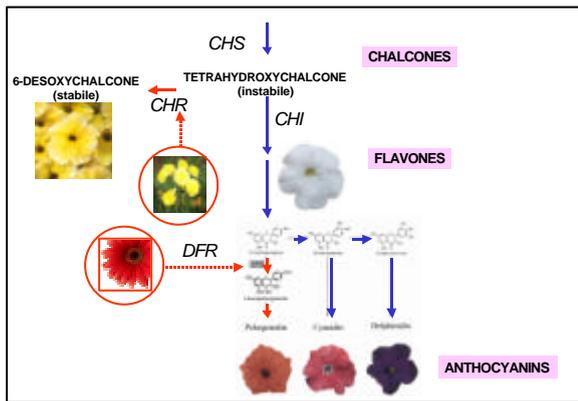
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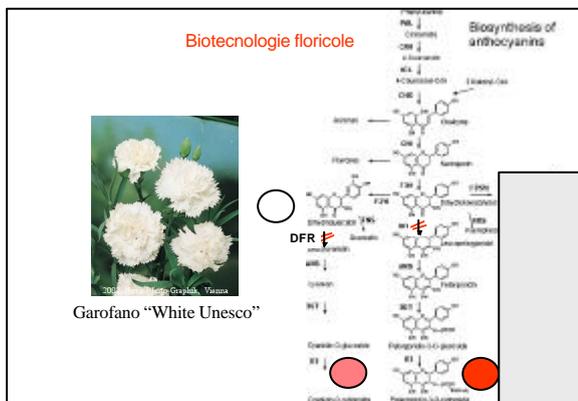
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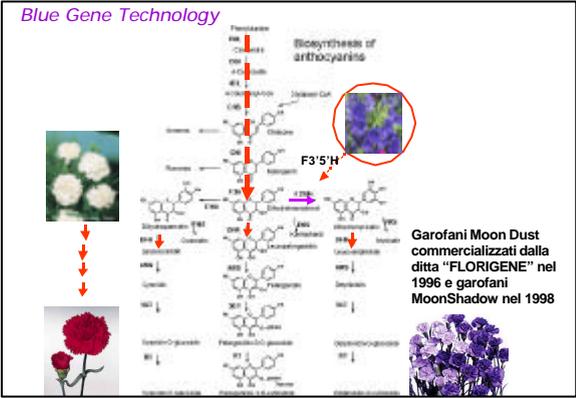
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**Blue Gene Technology**

*Costrutto:*

PROMOTORE petalo-specifico CHS di Anthirinum	CODING: Petunia 3'-5'Dihydroflavonolreductase	terminatore
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*Trasformazione:* *Agrobacterium tumefaciens*

*Selezione trasformanti:* ~~35s~~-ALS (resistenza diserbante)

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**Blue Gene Technology**

Garofani

Rose

**Tecnologia:** identica a quella applicata ai garofani

**Problemi:** il pH dei petali è troppo alto e quindi incompatibile con la colorazione blu anche in presenza di delphinidina

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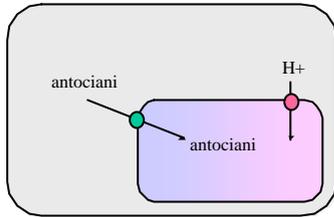
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*Il pH cellulare/vacuolare puo' causare variazioni di colore degli antociani*




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*Il pH del terreno puo' causare variazioni di colore degli antociani*




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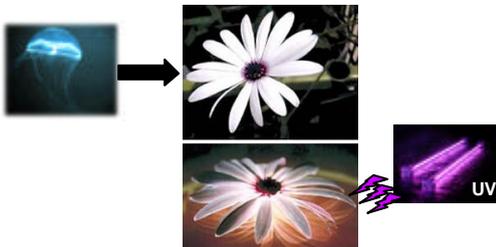
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**FIORI FLUORESCENTI**




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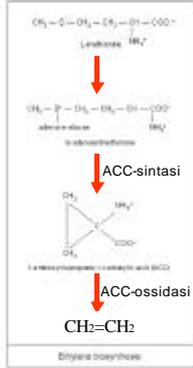
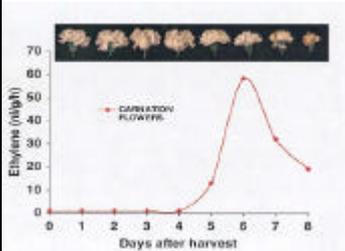
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**CONSERVAZIONE FIORI RECISI**

La produzione di etilene causa il rapido appassimento dei fiori recisi




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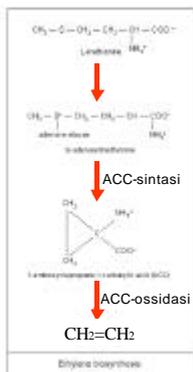
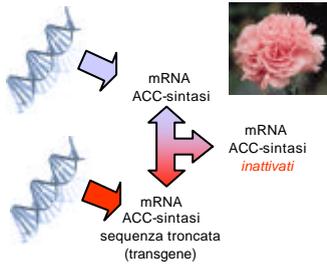
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**CONSERVAZIONE FIORI RECISI**

Garofani transgenici a lunga vita post-raccolta non producono etilene




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**CARATTERI DI INTERESSE**

Colore del fiore	Garofani	Petunie	Rose
Profumo del fiore			Rose
Assenza spine			Rose
Periodo di fioritura			
Altezza della pianta	Crisantemi		Rose
Resistenza a patogeni			
Resistenza a insetti			

Società BioTec che si occupano di Floricoltura




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