

**Cosmid Library Construction of *Fusarium graminearum* (R5317),
F. sporotrichioides (T0348), and *F. verticillioides* (M3125)**

- ◆ Date of Construction: April 6, 2001
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◆ ***Fusarium* Strains:**

Fusarium graminearum (R5317) F65c # 8959
F. sporotrichioides (T0348) F65c 8960
F. verticillioides (M3125) 8961

- ◆ Cosmid: pCosP1-9 (provided by Dr. Robert Proctor, Mycotoxin Research Unit, ARS, USDA in Peoria, Illinois; see the attached map)

* Reference: Hohn TM, Desjardins AE, McCormick SP. 1995. The Tri4 gene of *Fusarium sporotrichioides* encodes a cytochrome P450 monooxygenase involved in trichothecene biosynthesis. *Mol Gen Genet.* 248(1):95-102.

- ◆ Host strain: *E. coli* XL1-BLUE MR
- ◆ Colony numbers collected for the libraries
 - i. *F. graminearum* (R5317): 10,000 colonies
 - ii. *F. sporotrichioides* (T0348): 10,000 colonies
 - iii. *F. verticillioides* (M3125): 70,000 colonies
- ◆ Approximate *E. coli* cfu/ml of a pooled cosmid library
 - F. graminearum* (R5317): $\sim 2 \times 10^{10}$ /ml
 - F. sporotrichioides* (T0348): $\sim 1 \times 10^{10}$ /ml
 - F. verticillioides* (M3125): $\sim 8 \times 10^9$ /ml