

Nov. 29, 2000

Aspergillus nidulans strains deposited at FGSC, Fall 2000 sent by **E.Kafer**

FGSC #	genotype
EK 4078 -> A1061	<i>pyrG89 pabaA1; wA3; bimD6 pyroA4; chaA1</i> (3303.5.7) [=EK cross of origin]
EK 4247 -> A1062	<i>pyrG89; bimD6 pyroA4; riboB2 chaA1</i> (3281.3.9) [+ isolate No]
M3659 -> A1063	<i>riboA1; sC12; bimD6 pyroA4</i> (D6.9 from G. May lab; sister strain to D6.2)
M3692 -> A1064	<i>pabaA1 biA1; bimD6 pyroA4</i> (2318.2.20)[EK Cross + isolate No]
M3132 -> A1065	<i>pabaA1 yA2; bimB3</i> (2780.8.17) [ERBoothroyd, Cross + isolate No]

A) Origin of bimD strains A1061 - A1064

A1061 = 4078/ *pyrG89 pabaA1; wA3; bimD6 pyroA4; chaA1* (3303.5.7)

From cross

(3303): M3130/ *pyrG89* pabaA1 yA2; wA3; pyroA4* (*cold sensitive GR6c; N.R.Morris lab, 1986)
x EK4102/ *riboA1; bimD6 pyroA4; chaA1* (3217.1.17)

Origin of 4102/:

from cross **A1063** = M3659/ *riboA1; sC12; bimD6 pyroA4* (D6.9 from G. May lab; see below)
(3217): x **A834** = M3811/ *pabaA1; pyroA4; uvsD153; choA1; chaA1* (3109.2.18)

A1062 = 4247/ *pyrG89; bimD6 pyroA4; riboB2 chaA1* (3281.3.9)

From cross

(3281): **A1061** = 4078/ *pyrG89 pabaA1; wA3; bimD6 pyroA4; chaA1* (±cs) (3303.5.7)
x **A768** = 3091/ *pyrG89 yA2; riboB2 chaA1* (2794.1.24)

A1063 = M3659/ *riboA1; sC12; bimD6 pyroA4* (D6.9 from G. May lab; sister strain to D6.2,
Denison, Kafer and May, 1992, Genetics 134:1085)

A1064 = M3692/ *pabaA1 biA1; bimD6 pyroA4* (2318.2.20)

From cross

(2318): **A1063** = M3659/ *riboA1; sC12; bimD6 pyroA4* (D6.9, G. May lab);
x M2465/ *pabaA1 biA1; uvsH304; riboB2 chaA1* (EK2444(a).6.13)

Origin of 2465/

from cross **A410** = M1869/ *pabaA1 biA1; riboB2 chaA1* (434.8.3)

(2444(a)*: x M2406/ *yA2; AcrA1; uvsH304 pyroA4* (= original uvs-4 of Wright and Pateman a partial uvsH mutant, obtained from B. Scott; = parent of FGSC **A576** = M2503 from 2n (2412*.1.6)

[“uvs-4”= uvsH304 is not **uvsH4** in FGSC **A329**, an extreme mutant of Tuveson]

* cross 2444 and origin of M2406/ are listed in the pedigree of FGSC **A576** = M2503/ (which originates from 2n 2412.1.6*; to be corrected in “Catalogue”, as mentioned in my note of Sept. 8, 2000).

B) Origin of BimB strain, A 1065

A1065 = M3132/ *pabaA1 yA2; bimB3* (2780.8.17) [from cross by E.R. Boothroyd, in Morris lab]

No records have been preserved of the exact genotypes of the parents of cross (2780). Basically it was a cross of a highly back-crossed (IX generations) strain x the original or F1 of **bimD6** (NR Morris, 1976).

Cross (2780): FGSC **A610** = M2600/ *pabaA1 yA2* (1621R.23.1)

possibly x *adE20 biA1; wA2 cnxE16; sC12; bimD6 methG1; nicA2; lacA1; choA1; chaA1*

(UV of **A154** = M1043/)