

Novel *Pseudomonas* species prevent the growth of the phytopathogenic fungus *Aspergillus flavus*

Franciene Rabiço Oliveira^{a,b}, Tiago Cabral Borelli^{a,c}, Maria de Lourdes Teixeira de Moraes Polizeli^b, Ricardo Roberto da Silva^c, Rafael Silva-Rocha^d, María-Eugenia Guazzaroni^{b*}

^aDepartment of Cell and Molecular Biology, Faculdade de Medicina de Ribeirão Preto, University of São Paulo, São Paulo, SP, Brazil

^bDepartment of Biology, Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto, University of São Paulo, São Paulo, SP, Brazil

^cDepartment of Biomolecular Sciences, Faculdade de Ciências Farmacêuticas de Ribeirão Preto, University of São Paulo, Ribeirão Preto, Brasil

^dByMyCell Inova Simples. Av. Dra. Nadir Aguiar, 1805 – Supera Parque, Ribeirão Preto, SP, Brazil

*Correspondence to: María-Eugenia Guazzaroni, meguazzaroni@ffclrp.usp.br

Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto,
Universidade de São Paulo.

Av. Bandeirantes, 3.900. CEP: 14049-901, Ribeirão Preto, São Paulo, Brazil.

Supporting Materials

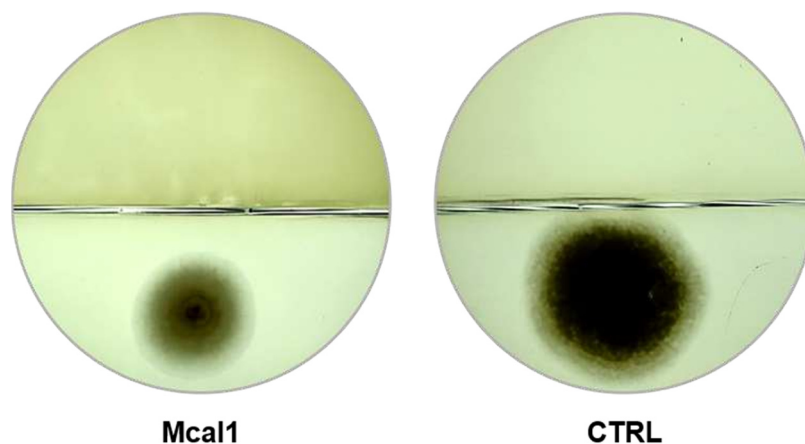


Figure S1. Antibacterial activity of VOCs of Mcal1 strain on LB medium in 2-compartment Petri dishes.

Table S1. Digital DNA-DNA hybridization (dDDH) values between the BJa3 genome and the selected typestrain genomes.

Strain	dDDH (d4, in %)
<i>Pseudomonas soli</i> LMG 27941	92,1
<i>Pseudomonas maumuensis</i> COW77	56,5
<i>Pseudomonas peradeniyensis</i> BW13M1	42,1
<i>Pseudomonas mosselii</i> DSM 17497	40,9
<i>Pseudomonas muyukensis</i> COW39	36,4
<i>Pseudomonas xantholysinigenes</i> RW9S1A	35,5
<i>Pseudomonas sichuanensis</i> WCHPs060039	34,5
<i>Pseudomonas oryziphila</i> 1257T	34,2
<i>Pseudomonas entomophila</i> L48	34,1
<i>Pseudomonas xanthosomatis</i> COR54	32,6
<i>Pseudomonas fakonensis</i> COW40	32,4
<i>Pseudomonas wayambapatensis</i> RW3S1	28,8
<i>Pseudomonas taiwanensis</i> DSM 21245	28,1

Table S2. Digital DNA-DNA hybridization (dDDH) values between the MCal1 genome and the selected typestrain genomes.

Strain	dDDH (d4, in %)
<i>Pseudomonas glycinae</i> MS586	52
<i>Pseudomonas gozinkensis</i> LMG 31526	51,6
<i>Pseudomonas kribbensis</i> KCTC 32541T	42,9
<i>Pseudomonas allokribbensis</i> LMG31525T	42,5
<i>Pseudomonas bananamidigenes</i> BW11P2	39,4
<i>Pseudomonas botevensis</i> COW3	34,6
<i>Pseudomonas koreensis</i> LMG 21318	34,2
<i>Pseudomonas koreensis</i> JCM 14769	34,1
<i>Pseudomonas atagonensis</i> PS14	33,6
<i>Pseudomonas monsensis</i> PGSB 8459	33,2
<i>Pseudomonas ekonensis</i> COR58	33
<i>Pseudomonas iranensis</i> SWRI54	31,8
<i>Pseudomonas atacamensis</i> M7D1	31,7
<i>Pseudomonas moraviensis</i> LMG 24280	31,6

Table S3. Genome statistics for *Pseudomonas* sp. BJa3 and MCal1.

Attribute	BJa3	MCal1
Size (bp)	5952323	6264134
contigs (n°)	750	155
coverage (Avg)	270	251.1
GC (%)	64.05	60.42
Coding sequences	5272	5650
tRNA	4	73
rRNA	77	5
tmRNA	1	1
Plasmid	0	0
GenBank	JAOXMC000000000	JAKUMP000000000
SRA	PRJNA808800	PRJNA808800
Isolated from	Garden soil	Sugarcane Juice