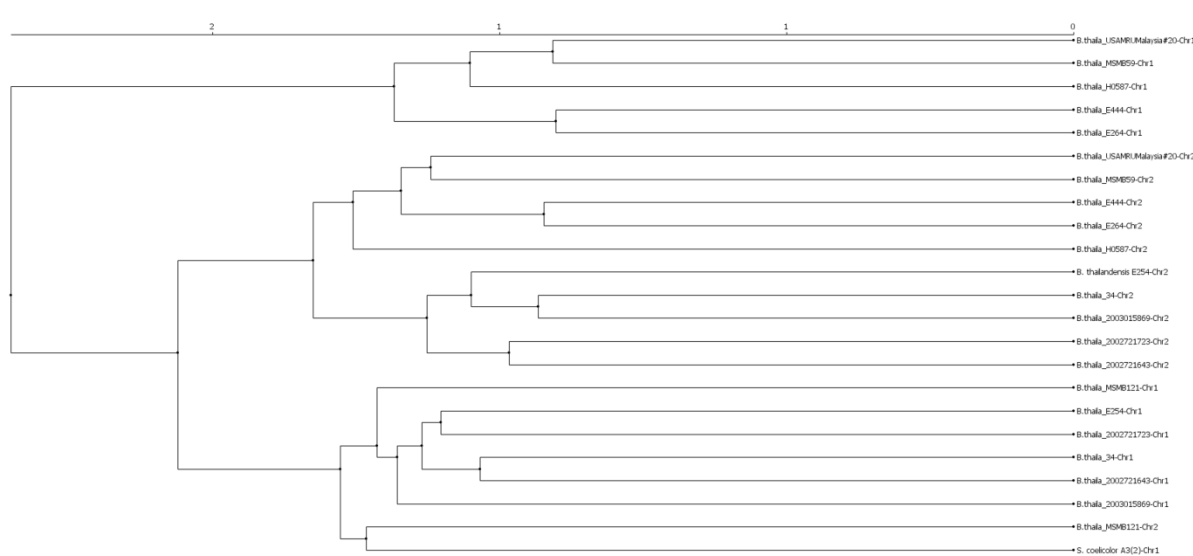


## Supplementary Information

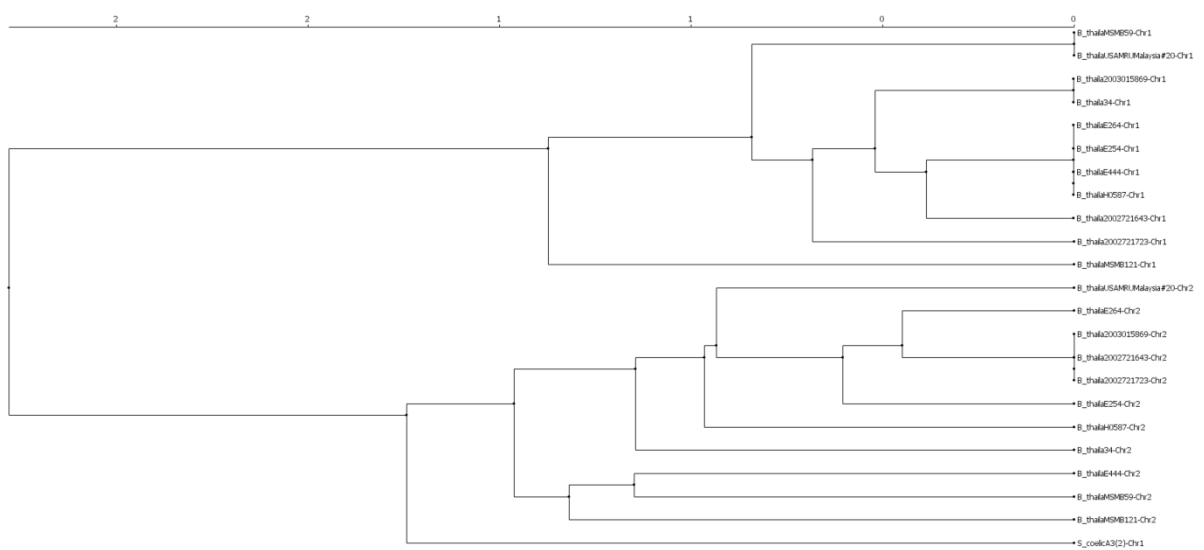
### An Insight Into the Intraspecific Variation of Biosynthetic Gene Clusters Between Strains of *Burkholderiathailandensis* spp.

João Luiz Baldim\* and Marisi Gomes Soares\*

Instituto de Química, Universidade Federal de Alfenas, 37130-000 Alfenas-MG, Brazil



**Figure S1.** Hierarchical analysis of all chromosomes of *B. thailandensis* strains and *S. coelicolor*A3(2) according to their homologies level to BGCs of already known compounds. This analysis was carried out by Gitools 2.2.3 using Euclidean distance. Results were linked by average of similarity and their scores. The strain *S. coelicolor*A3(2) was used as standard to compare homologies. The last branch from the top to the bottom it is grouping *B. thailandensis* MSMB121 and *S. coelicolor*A3(2) showing that this Burkholderia strain is the most similar strain according to their level of homology to BGCs of known compounds.



**Figure S2.** Hierarchical analysis of all chromosomes of *B. thailandensis* strains and *S. coelicolor*A3(2) correlation their cores structures. This analysis was carried out by Gitools 2.2.3 using Euclidean distance. Results were linked by average of similarity and their scores. The standard strain *S. coelicolor*A3(2) was added to this analysis for homologies comparisons. Groups of similar core structures producing strains are present explaining that their BGCs are similar at the genomic level.

**Table S1.**Details of strains and accession numbers of *B. thailandensis* strains studied

Organism/name	Strain	Replicon (Chromosome 1)	Replicon (Chromosome 2)	NCBI Reference Sequence Database (RefSeq) FTP
<i>Burkholderiathailandensis</i> E264	E264, ATCC 700388	NC_007651.1	NC_007650.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000012365.1_ASM1236v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000012365.1_ASM1236v1</a>
<i>Burkholderiathailandensis</i> MSMB121	MSMB121	NC_021173.1	NC_021174.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000385525.1_ASM38552v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000385525.1_ASM38552v1</a>
<i>Burkholderiathailandensis</i> H0587	H0587	NZ_CP004089.1	NZ_CP004090.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000567905.1_ASM56790v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000567905.1_ASM56790v1</a>
<i>Burkholderiathailandensis</i> 2002721723	2002721723	NZ_CP004097.1	NZ_CP004098.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000567925.1_ASM56792v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000567925.1_ASM56792v1</a>
<i>Burkholderiathailandensis</i> E444	E444	NZ_CP004117.1	NZ_CP004118.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000567945.1_ASM56794v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000567945.1_ASM56794v1</a>
<i>Burkholderiathailandensis</i> USAMRU Malaysia #20	USAMRU Malaysia #20	NZ_CP004383.1	NZ_CP004384.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000706745.1_ASM70674v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000706745.1_ASM70674v1</a>
<i>Burkholderiathailandensis</i> MSMB59	MSMB59	NZ_CP004385.1	NZ_CP004386.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000764595.1_ASM76459v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000764595.1_ASM76459v1</a>
<i>Burkholderiathailandensis</i> E254	E254	NZ_CP004381.1	NZ_CP004382.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000765375.1_ASM76537v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000765375.1_ASM76537v1</a>
<i>Burkholderiathailandensis</i> 2003015869	2003015869	NZ_CP008914.2	NZ_CP008915.2	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000808035.2_ASM80803v2">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000808035.2_ASM80803v2</a>
<i>Burkholderiathailandensis</i> 2002721643	2002721643	NZ_CP009601.1	NZ_CP009602.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000959425.1_ASM95942v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000959425.1_ASM95942v1</a>
<i>Burkholderiathailandensis</i> 34	34	NZ_CP010017.1	NZ_CP010018.1	<a href="ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000959605.1_ASM95960v1">ftp://ftp.ncbi.nlm.nih.gov/genomes/all/GCF_000959605.1_ASM95960v1</a>