

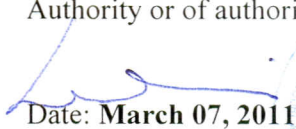
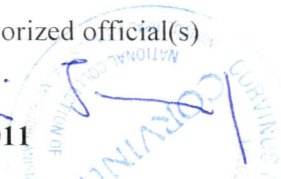
BUDAPEST TREATY ON THE INTERNATIONAL
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS
FOR THE PURPOSES OF PATENT PROCEDURE
INTERNATIONAL FORM

TO: **dr Ivanka Karadzic**
University of Belgrade
Institute of Chemistry, Technology
and Metallurgy
Dept. of Chemisry
Njegoseva 12, 11001 Belgrade, Serbia
P.O.box 473

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

issued pursuant to Rule 7.1 by the
INTERNATIONAL DEPOSITORY AUTHORITY
identified at the bottom of this page

NAME AND ADDRESS
OF DEPOSITOR

I. IDENTIFICATION OF THE MICROORGANISM	
Identification reference given by the Depositor: <i>Pseudomonas aeruginosa san ai</i>	Accession number given by the INTERNATIONAL DEPOSITORY AUTHORITY: NCAIM (P) B 001380
II. SCIENTIFIC DESCRIPTION AND/OR PROPOSED TAXONOMIC DESIGNATION	
The microorgnnism identified under I. above was accompanied by: <input type="checkbox"/> a scientific description <input checked="" type="checkbox"/> a proposed taxonomic designation (Mark with a cross where applicable)	
III. RECEIPT AND ACCEPTANCE	
This International Depository Authority accepts the microorganism identified under I above, which was received by it on January 21, 2011 (date of the original deposit) ¹	
IV. RECEIPT OF REQUEST FOR CONVERSION	
The microorganism identified under I. above was received by this International Depository Authority on (date of the original deposit) and a request to convert the original deposit to a deposit under the Budapest Treaty was received by it on (date of receipt of request for conversion)	
V. INTERNATIONAL DEPOSITORY AUTHORITY	
Name: National Collection of Agricultural and Industrial Microorganisms Address: Budapest Somlói út 14-16. 1118 HUNGARY	Signature(s) of person(s) having the power to represent the International Depository Authority or of authorized official(s)  Date: March 07, 2011 

(¹) Where Rule 6.1 (d) applies, such date is the date on which the status of international depository authority was acquire Form BP/4 (sole page)

**Budapest Treaty of 28 April 1977 on the International Recognition of the
Deposit of Microorganisms for the Purposes of Patent Procedure.
Statement in the case of an original deposit
pursuant to Rule 6.1**

Send to: National Collection of Agricultural and Industrial Microorganisms H-1118 Budapest, Somlói út 14-16. Hungary	Accession Number: NCAIM (P)- (number to be filled in by NCAIM)
---	--

The undersigned hereby deposits under the Budapest Treaty the microorganism identified hereunder and undertakes not to withdraw the deposit for the period specified in Rule 9.1 ¹

I. Identification of the microorganism:

I.1 Identification reference:

(Number, symbols, etc. given to the microorganism by the depositor)

Pseudomonas aeruginosa san ai

I.2 Is this a mixture of microorganisms ?

Yes - No

²

II. Conditions for cultivation:

Nutrient agar: Peptone 15g, Meat extract 3g, NaCl 5g, KH₂PO₄ 0.3g, Agar 15g, ddH₂O to 1000 ml. Temperature 30 °C for 24 hours.

²

III. Conditions for storage:

Up to 1 month at 4 °C on nutrient agar.
For storage longer than 1 month: Suspension of cells from nutrient agar in 20 % glycerol at -20 °C.

¹ This form may also be used if the undersigned converts into a deposit under the Budapest Treaty the deposit of a microorganism that he or his predecessor in title has already deposited, outside the Budapest Treaty, with the same depositary institution either before (Rule 6.4(d)) or after the acquisition by that institution of the status of international depositary authority.

² Mark this box with a cross if additional information is given on an attached sheet.

IV. Conditions for testing viability:

²

Growth on: 1. **Nutrent agar** (Peptone 15g, Meat extract 3g, NaCl 5g, KH₂PO₄ 0.3g, Agar 15g, ddH₂O to 1000 ml), temperature 30 °C for 24 hours, or 2. **Cetrimide agar**: Enzymatic Digest of Gelatin 20 g, Glycerol 10 mL, MgCl₂ 1.4 g, KCl 10 g, Cetrimide (Cetyltrimethylammonium Bromide) 0.3 g, Agar 13.6 g, ddH₂O to 1000 ml; or 3. Cultivation in 100 ml of **LB medium** (composition: Tryptone, 10 g; Yeast extract 5g; NaCl 10 g to 1000 ml) in Erlenmeyer flask volume 500 ml, with agitation at 250 cycles/min on a horizontal shaker, at 30°C for 20 hours.

V. Components of mixture: (in case the answer to I.2 is "Yes")

²

V.1 Description of components:

V.2 Method(s) for checking presence of components:

VI. Properties dangerous to health or environment:

²

(Mark with a cross the applicable box)

The microorganism identified under **I** above has the following properties which are or may be dangerous to health or the environment:
P. aeruginosa species belongs to Risk group 2, being an opportunistic pathogen bacterium .

The undersigned is not aware of such properties.

VII. Scientific description and/or proposed taxonomic designation:

²

It is strongly recommended that the scientific description and/or proposed taxonomic designation of the microorganism be indicated.

VII.1 Scientific description:

Shape- rod; Size 0.5x 1.0 µm; Motility +; Gram stain-; Spore formation -; Growth temperature 30-45 °C; pH for growth 4.6-9.8; VP test-; MR test -; Indol production -; H₂S production +; Reduction of nitrate +; Urease test -; Gelatin liquefaction +; Starch hydrolysis -; Catalase test +; Oxidase test +; Utilization of : glucose +, sucrose -, lactose -, galactose -; Production of pigment (pyocyanine) +.

VII.2 Proposed taxonomic designation:

Pseudomonas aeruginosa

² Mark this box with a cross if additional information is given on a attached sheet.

VIII. Additional data: (optional)

- the source of the microorganism;
- the name(s) and address(es) of any other depository institution(s) with which the microorganism has been deposited;
- the criterion used when drafting the proposed taxonomic designation.

IX. If the depositor is a legal entity and if official notifications should not be sent to the address given in point XII, then indicate name and address of the person to whom official notifications should be sent:

Name

Address :

X. If the depositor has a patent agent:

Will this patent agent handle all communications with NCAIM instead of the depositor?

Yes - No

Should NCAIM send the patent agent a copy of the official receipt and viability statement?

Yes - No

Name:

Address:

XII. Depositor:

Name: : Dr Ivanka Karadzic

Address: Institute of Chemistry, Technology and Metallurgy, Department of Chemistry, Njegoseva 12, PO Box 473, 11000 Belgrade, Serbia

Signature:

(Where the signature is required on behalf of a legal entity, the typewritten name(s) of the natural person(s) signing on behalf of the legal entity should accompany the signature(s)).

Date:

<http://www.ncbi.nlm.nih.gov/nucore/654779999?report=genbank>

[Display Settings: GenBank](#)

Pseudomonas aeruginosa NCAIM B.001380, whole genome shotgun sequencing project

NCBI Reference Sequence: NZ_JMKR00000000.1

- This entry is the master record for a whole genome shotgun sequencing project and contains no sequence data.

[Go to:](#)

LOCUS NZ_JMKR01000000 6985358 bp DNA linear BCT 19-SEP-2014

DEFINITION *Pseudomonas aeruginosa* NCAIM B.001380, whole genome shotgun sequencing project.

ACCESSION NZ_JMKR000000000

VERSION NZ_JMKR000000000.1 GI:654779999

DBLINK BioProject: [PRJNA224116](#)
BioSample: [SAMN02743347](#)
Assembly: [GCF_000685845.1](#)

KEYWORDS WGS; IMPROVED_HIGH_QUALITY_DRAFT; RefSeq.

SOURCE *Pseudomonas aeruginosa* NCAIM B.001380
ORGANISM [Pseudomonas aeruginosa NCAIM B.001380](#)
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; Pseudomonas.

REFERENCE 1 (bases 1 to 6985358)
AUTHORS Karadzic,I., Huntemann,M., Han,J., Chen,A., Kyrpides,N., Mavromatis,K., Markowitz,V., Palaniappan,K., Ivanova,N., Schaumberg,A., Pati,A., Liolios,K., Nordberg,H.P., Cantor,M.N., Hua,S.X. and Woyke,T.

CONSRMT DOE Joint Genome Institute

TITLE Direct Submission

JOURNAL Submitted (24-APR-2014) DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598-1698, USA

COMMENT [REFSEQ INFORMATION](#): The reference sequence was derived from [JMKR000000000](#).
The *Pseudomonas aeruginosa* NCAIM B.001380 whole genome shotgun (WGS) project has the project accession NZ_JMKR000000000. This version of the project (01) has the accession number NZ_JMKR01000000, and consists of sequences JMKR01000001-JMKR01000015.
URL -- <http://www.jgi.doe.gov>
JGI Project ID: 1009431
Source DNA and Organism available from Ivanka Karadzic (ikaradzic@med.bg.ac.rs)
Source DNA available from Ivanka Karadzic (ikaradzic@med.bg.ac.rs)
Organism available from Ivanka Karadzic (ikaradzic@med.bg.ac.rs)
Contacts: Ivanka Karadzic (ikaradzic@med.bg.ac.rs)
Tanja Woyke (microbe@cuba.jgi-psf.org)

Whole genome sequencing and draft assembly at JGI-PGF
Annotation by JGI-ORNL
The JGI and collaborators endorse the principles for the
distribution and use of large scale sequencing data adopted by

the

larger genome sequencing community and urge users of this data to
follow them. It is our intention to publish the work of this
project in a timely fashion and we welcome collaborative
interaction on the project and analysis.

(<http://www.genome.gov/page.cfm?pageID=10506376>)

Full annotations are available from IMG.

##MIGS-Data-START##

assembly :: HGAP v. 1.1
investigation_type :: bacteria_archaea
project_name :: Pseudomonas aeruginosa NCAIM B.001380
sequencing_meth :: WGS
GOLD Stamp ID :: [G14120](#)
Funding Program :: DOE-CSP 2011
Gene Calling Method :: Prodigal 2.5
Gram Staining :: Gram-

##MIGS-Data-END##

##Genome-Assembly-Data-START##

Finishing Goal :: Improved High-Quality Draft
Current Finishing Status :: Improved High-Quality Draft
Assembly Method :: HGAP v. 1.1
Genome Coverage :: Unknown
Sequencing Technology :: Illumina HiSeq 2000

##Genome-Assembly-Data-END##

##Genome-Annotation-Data-START##

Annotation Provider :: NCBI
Annotation Date :: 09/08/2014 03:19:41
Annotation Pipeline :: NCBI Prokaryotic Genome

Annotation

Pipeline

Annotation Method :: Best-placed reference protein

set;

GeneMarkS+

Annotation Software revision :: 2.7 (rev. 445703)

Features Annotated :: Gene; CDS; rRNA; tRNA; ncRNA;
repeat_region

Genes :: 6,499

CDS :: 6,279

Pseudo Genes :: 138

rRNAs :: 14 (5S, 16S, 23S)

tRNAs :: 67

ncRNA :: 1

Frameshifted Genes :: 131

##Genome-Annotation-Data-END##

FEATURES

source

Location/Qualifiers

1..6985358

/organism="Pseudomonas aeruginosa NCAIM B.001380"

/mol_type="genomic DNA"

/strain="NCAIM B.001380"

/db_xref="taxon:[1118159](#)"

WGS [JMKR01000001-JMKR01000015](#)
WGS_SCAFLD [NZ_JMKR01000001-NZ_JMKR01000015](#)
//

Pseudomonas aeruginosa NCAIM B.001380, whole genome shotgun sequencing project

GenBank: JMKR00000000.1

- This entry is the master record for a whole genome shotgun sequencing project and contains no sequence data.

Go to:

LOCUS JMKR01000000 15 rc DNA linear
BCT 08-MAY-2014
DEFINITION Pseudomonas aeruginosa NCAIM B.001380, whole genome
shotgun
sequencing project.
ACCESSION JMKR00000000
VERSION JMKR00000000.1 GI:631850534
DBLINK BioProject: [PRJNA195719](#)
BioSample: [SAMN02743347](#)
KEYWORDS WGS; IMPROVED_HIGH_QUALITY_DRAFT.
SOURCE Pseudomonas aeruginosa NCAIM B.001380
ORGANISM [Pseudomonas aeruginosa NCAIM B.001380](#)
Bacteria; Proteobacteria; Gammaproteobacteria;
Pseudomonadales;
Pseudomonadaceae; Pseudomonas.
REFERENCE 1 (bases 1 to 15)
AUTHORS Karadzic, I., Huntemann, M., Han, J., Chen, A.,
Kyrpides, N., Mavromatis, K., Markowitz, V., Palaniappan, K.,
Ivanova, N., Schaumberg, A., Pati, A., Liolios, K., Nordberg, H.P.,
Cantor, M.N., Hua, S.X. and Woyke, T.
CONSRTM DOE Joint Genome Institute
TITLE Direct Submission
JOURNAL Submitted (24-APR-2014) DOE Joint Genome Institute,
2800 Mitchell Drive, Walnut Creek, CA 94598-1698, USA
COMMENT The Pseudomonas aeruginosa NCAIM B.001380 whole
genome shotgun WGS) project has the project accession
JMKR00000000. This version of the project (01) has the
accession number JMKR01000000, and consists of sequences
JMKR01000001-JMKR01000015.
URL -- <http://www.jgi.doe.gov>
JGI Project ID: 1009431
Source DNA and Organism available from Ivanka
Karadzic (ikaradzic@med.bg.ac.rs)
Source DNA available from Ivanka Karadzic
(ikaradzic@med.bg.ac.rs)

Organism available from Ivanka Karadzic
(ikaradzic@med.bg.ac.rs)

Contacts: Ivanka Karadzic (ikaradzic@med.bg.ac.rs)
Tanja Woyke (microbe@cuba.jgi-psf.org)

Whole genome sequencing and draft assembly at JGI-
PGF Annotation by JGI-ORNL

The JGI and collaborators endorse the principles for
the distribution and use of large scale sequencing data adopted
by the larger genome sequencing community and urge users of this
data to follow them. It is our intention to publish the work of
this project in a timely fashion and we welcome collaborative
interaction on the project and analysis.

(<http://www.genome.gov/page.cfm?pageID=10506376>)

Full annotations are available from IMG.

##MIGS-Data-START##

assembly :: HGAP v. 1.1
investigation_type :: bacteria_archaea
project_name :: Pseudomonas aeruginosa NCAIM

B.001380

sequencing_meth :: WGS
GOLD Stamp ID :: [G114120](#)
Funding Program :: DOE-CSP 2011
Gene Calling Method :: Prodigal 2.5
Gram Staining :: Gram-
##MIGS-Data-END##

##Genome-Assembly-Data-START##

Draft Finishing Goal :: Improved High-Quality

Draft Current Finishing Status :: Improved High-Quality

Assembly Method :: HGAP v. 1.1
Genome Coverage :: Unknown
Sequencing Technology :: Illumina HiSeq 2000

##Genome-Assembly-Data-END##

FEATURES Location/Qualifiers

source 1..15
/organism="Pseudomonas aeruginosa NCAIM B.001380"
/mol_type="genomic DNA"
/strain="NCAIM B.001380"
/db_xref="taxon:[1118159](#)"

WGS [JMKR01000001-JMKR01000015](#)

<http://www.ncbi.nlm.nih.gov/nucore/JMKR00000000.1>