

Practical approach to detection and surveillance of emerging highly resistant *Mycobacterium tuberculosis* Beijing 1071-32-cluster

Igor Mokrousov*, Anna Vyazovaya, Viacheslav Sinkov, Alena Gerasimova, Panayotis Ioannidis, Weiwei Jiao, Polina Khromova, Dimitrios Papaventsis, Oksana Pasechnik, João Perdigão, Nalin Rastogi, Adong Shen, Yuriy Skiba, Natalia Solovieva, Philip Suffys, Silva Tafaj, Tatiana Umpeleva, Diana Vakhrusheva, Irina Yarusova, Svetlana Zhdanova, Viacheslav Zhuravlev, Oleg Ogarkov

SUPPLEMENTARY MATERIAL



Figure S1. Branch of the WGS tree with cluster 1071-32 isolates.

Accession numbers: 4398 - SRR5266551, 7050 - SRR5266544, 7623 - SRR5266541, 2953 - SRR5266557, 10013 - SRR5266534, 2044 - SRR7796665, 703 - SRR7796666. Common resistance mutations are shown by orange box. Adapted from (Mokrousov et al., 2020).

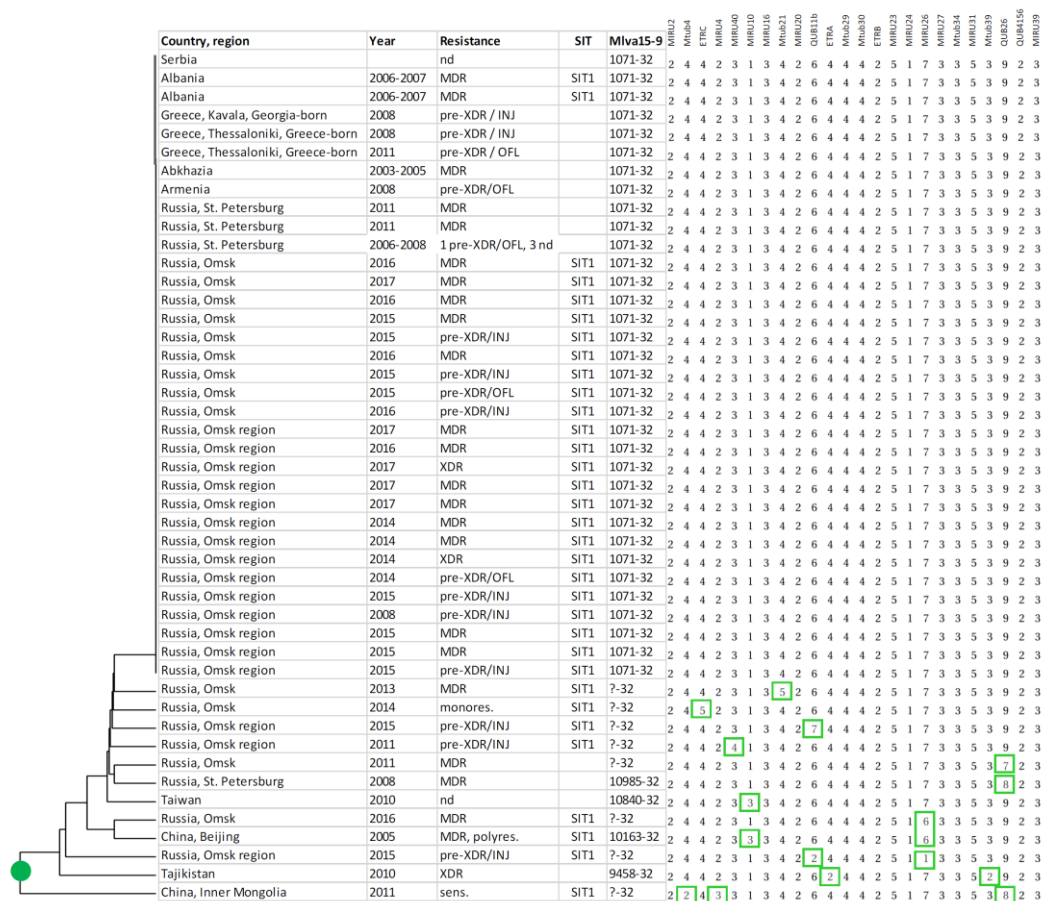


Figure S2. Branch of the VNTR tree with cluster 1071-32 (Mokrousov et al., 2019). Variant alleles (compared to 1071-32 profile) are shown by green boxes.

MIRU 2 154	Mtub 04 424	ETR C 577	ETR D (MIRU-4) 580	MIRU 40 802	MIRU 10 960	MIRU 16 1644	Mtub 21 1955	MIRU 20 2059	2163b QUB11b	ETRA 2165	Mtub 29 2347	Mtub 30 2401	ETR B 2461	MIRU 23 2531	MIRU 24 2687	MIRU 26 2996	MIRU 27 3007	Mtub 34 3171	MIRU 31 3192	Mtub 39 3690	QUB 26 4052	QUB-4156c 4156	MIRU39 4348
2	4	4	2	3	1	3	4	2	6	4	4	4	2	5	1	7	3	3	5	3	9	2	3

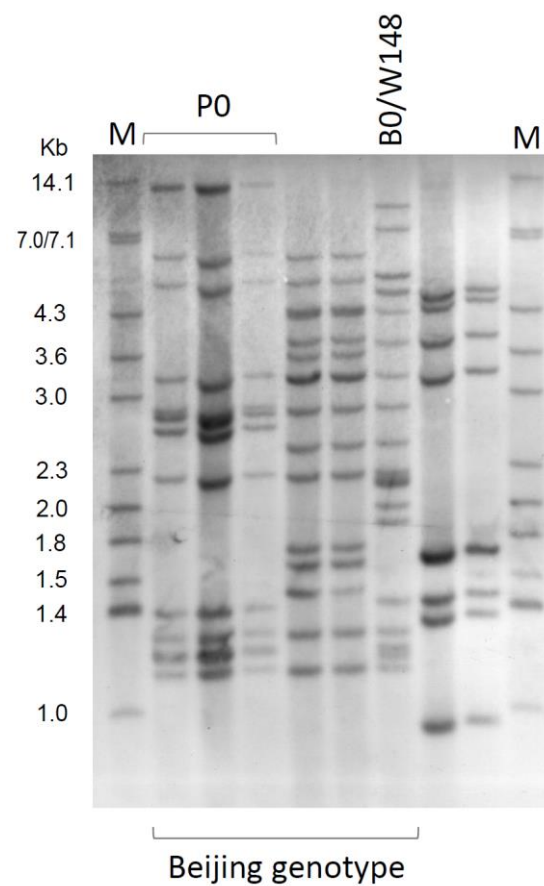


Figure S3. 24-MIRU-VNTR and IS6110-RFLP profile of the Beijing 1071-32-cluster.

On the IS6110-RFLP hybridization panel: M – molecular weight marker Mt14323/PvuII, P0 – characteristic profile of the Beijing 1071-32-cluster isolates, B0/W148 - Beijing B0/W148 isolate.