一、送样前细胞 STR 信息检索:

- 送样前请先在 ICLAC(International Cell Line Authentication Committee,
 https://iclac.org/)网站公布的错误细胞系目录中检索待检测细胞是否为已经确定的错误细胞系,如已确认,建议不必再检测。
- 2、在 https://scicrunch.org/ 网站可检索待检测细胞信息,查看是否为红色标记的"Problematic cell line"。如果经检索您的细胞为错误细胞系或有问题细胞系,建议您在后续的实验中谨慎使用。

二、检测结果比对:

可将您的检测结果在 https://www.dsmz.de/services/services-human-and-animal-cell-

lines/online-str-analysis.html 网站进行检索,比对查询您的样品来源。

也可在以下数据库进行检索:

ATCC STR profile database (search and compare STR profiles, login required)

DSMZ STR profile database (search and compare STR profiles, login required)

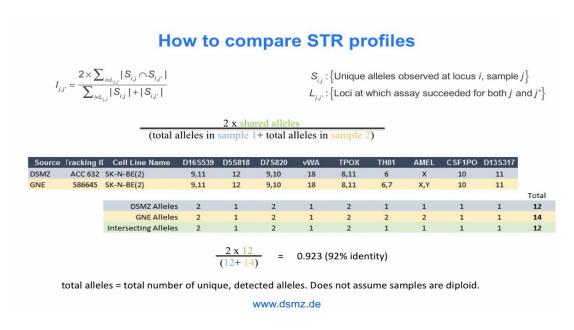
CLIMA database (search and compare STR profiles, version 2.1)

Cellosaurus database (search cell line name or description)

NCBI BioSample database (search cell line name or description)

三、计算自建细胞系与其来源的组织样品之间一致性的方法:

可参考 DSMZ 的计算方法(下图)或 ICLAC 提供的计算表格(见下页)。



■ Sample Comparison+¹

Table 3A: STR Profile Results

4	Test Sample:	Reference Sample
Cell line designation. e.g. name and catalog number.	4	4
Date sample collected (if known)	4	4
Passage or Population Doubling (if known).	4	
STR Profile Result (enter name of kit if used)		
D5\$818.:	.5	
D13\$317.a		
D7\$820.:	4	
D16\$539.	4	
xWA.		4
TH01.:		
Amelogenin.		
TPOX:	4	
CSF1PO.:	4	

Table 3B: Percent Match Calculations

		_
TOTAL ALLELES in the Test Sample.	٩	4
TOTAL ALLELES in the Reference Sample.	4	-
SHARED ALLELES, Test and Reference Samples	4	4
Percent Match for Test and Reference Samples		4

Percent Match can be calculated using an appropriate Match Algorithm (2,3). For this Worksheet.

Match Algorithm = SHARED ALLELES x 2

TOTAL ALLELES in the Test Sample + TOTAL ALLELES in the Reference Sample.

Percent Match = Match Algorithm result x 100.

Table 3C: Interpretation of Results.

Are there multiple peaks that would be consistent with a mixture?	YES/NO.:
Is the percent match result in the range 0-55 %? This result is consistent with the two samples being unrelated (different donors)	YES/NO.:
Is the percent match result in the range 56-79 %? This result is indeterminant and may need further testing	YES/NO.:
Is the percent match result in the range 80-100 %? This result is consistent with the two samples being related (same donor)	YES/NO.

Match Criteria Worksheet Version 1.3

5 December 2018.

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