

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 33302

Manuscript Type: Original Article

### *Basic Study*

Next-generation sequencing traces human iPSC lines clonally generated from heterogeneous cancer tissue

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### **Abstract**

**AIM:** This study investigated genotype variation among iPSC lines that were clonally generated from heterogeneous colon cancer tissues using next-generation sequencing.

**METHODS:** Human iPSC lines were clonally established by selecting

### Match Overview

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Next-generation sequencing of human iPSC lines clonally generated from



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## Google 学术: Next-generation sequencing of human iPSC lines clonally generated from primary cells of cancer tissues

... human skin revealed by induced pluripotent stem cells - Abyzov - 被引用次数: 199

... and epigenetic stability of human pluripotent stem cells - Lund - 被引用次数: 93

... models of human and mouse ductal pancreatic cancer - Boj - 被引用次数: 160

### iPSCs and fibroblast subclones from the same fibroblast population ...

[www.pnas.org/content/early/2017/02/01/1616035114.full](http://www.pnas.org/content/early/2017/02/01/1616035114.full) - 翻译此页

8 小时前 - Skip to main page content ... Targeted deep sequencing of parental fibroblasts revealed that most ... Genomic integrity of human induced pluripotent stem cells (iPSCs) is an ... process leads to more mutations by next-generation sequencing. ... Establishment of Single-Cell Clonal Fibroblast and iPSC Lines.

### Low incidence of DNA sequence variation in human induced ... - NCBI

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: L Cheng - 2012 - 被引用次数: 140 - 相关文章

Generation of multiple iPSC lines from different tissues of the same adult donor ... Bone marrow CD34+ cells were used to generate the BC1 iPSC line after 4-day ... in iPSCs after induction and expansion, we next focused on SNVs in exons, .... in normal primary cells as well as cultured human cell lines (Kinde et al, 2011).

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## Google 学术 : Next-generation sequencing traces human iPSC lines clonally generated from heterogeneous cancer tissue

... copy number mosaicism in human skin revealed by ... - Abyzov - 被引用次数 : 214

... gene replacement in human induced pluripotent stem ... - Byrne - 被引用次数 : 55

Genetic heterogeneity of induced pluripotent stem cells ... - Li - 被引用次数 : 6

## Genetic Heterogeneity of Induced Pluripotent Stem Cells: Results from ...

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者 : C Li - 2015 - 被引用次数 : 6 - 相关文章

2015年3月23日 - Since the generation of iPSCs "captures" the genetic history of the ... The next day, the cells were transduced with the OSK-GFP lentivirus ... assay is modified from a human iPSC hematopoietic differentiation ... Genomic DNA from all 24 iPSC clones and the two parental fibroblast lines were fragmented ...

## Mutational Heterogeneity in Human Cancers: Origin and Consequences

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者 : JJ Salk - 2010 - 被引用次数 : 173 - 相关文章

The impact of DNA sequencing on future cancer research and personalized therapy is likely to ... It is now possible to analyze the processes that generate mutations in normal and ... Third, next-generation sequencing platforms have several advantages that will likely ... Non-Clonal Mutations and Intra-Tumor Heterogeneity.

缺少字词 : traces ipsc

## Tumor Heterogeneity, Single-Cell Sequencing, and Drug Resistance

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者 : F Schmidt - 2016 - 被引用次数 : 7 - 相关文章



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### Genetic Heterogeneity of Induced Pluripotent Stem Cells: Results from ...

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: C Li - 2015 - 被引用次数: 6 - 相关文章

2015年3月23日 - **Induced pluripotent stem cells** (iPSCs) have tremendous potential ... development by **generating** hematopoietic progenitors in vitro and ... assay is modified from a **human iPSC** hematopoietic differentiation ... Genomic DNA from all 24 iPSC clones and the two parental fibroblast **lines** were fragmented using ...

### Single-cell sequencing and tumorigenesis: improved understanding of ...

<https://clintransmed.springeropen.com/articles/10.1186/s40169-017-0145-6> ▼ 翻译此页

作者: DL Ellsworth - 2017

2017年4月12日 - **Single-cell** sequencing Whole-genome amplification **Cancer Tumor heterogeneity** **Cancer stem cells** Circulating **tumor cells** ... The advent of **next-generation sequencing** (NGS) methods enables researchers to **generate** ... The first **single-cell** RNA sequencing (RNA-seq) data, **generated** from a single mouse ...

### Influence of donor age on induced pluripotent stem cells : Nature ...

<links.ealrt.nature.com/ctt?kn=47&ms=NTMxNjc4NzAS1...> - 翻译此页

**Induced pluripotent stem cells generated** from older individuals have higher ... **Clonal** expansion via reprogramming also enables the discovery of somatic ..... While many well-characterized **iPSC lines** are derived from youthful **tissue**, ..... for variation discovery and genotyping using **next-generation** DNA **sequencing** data.

### Single-cell sequencing in stem cell biology | Genome Biology | Full Text

<https://genomebiology.biomedcentral.com/articles/10.../s13059-016-0941-0> ▼ 翻译此页

作者: L Wen - 2016 - 被引用次数: 17 - 相关文章