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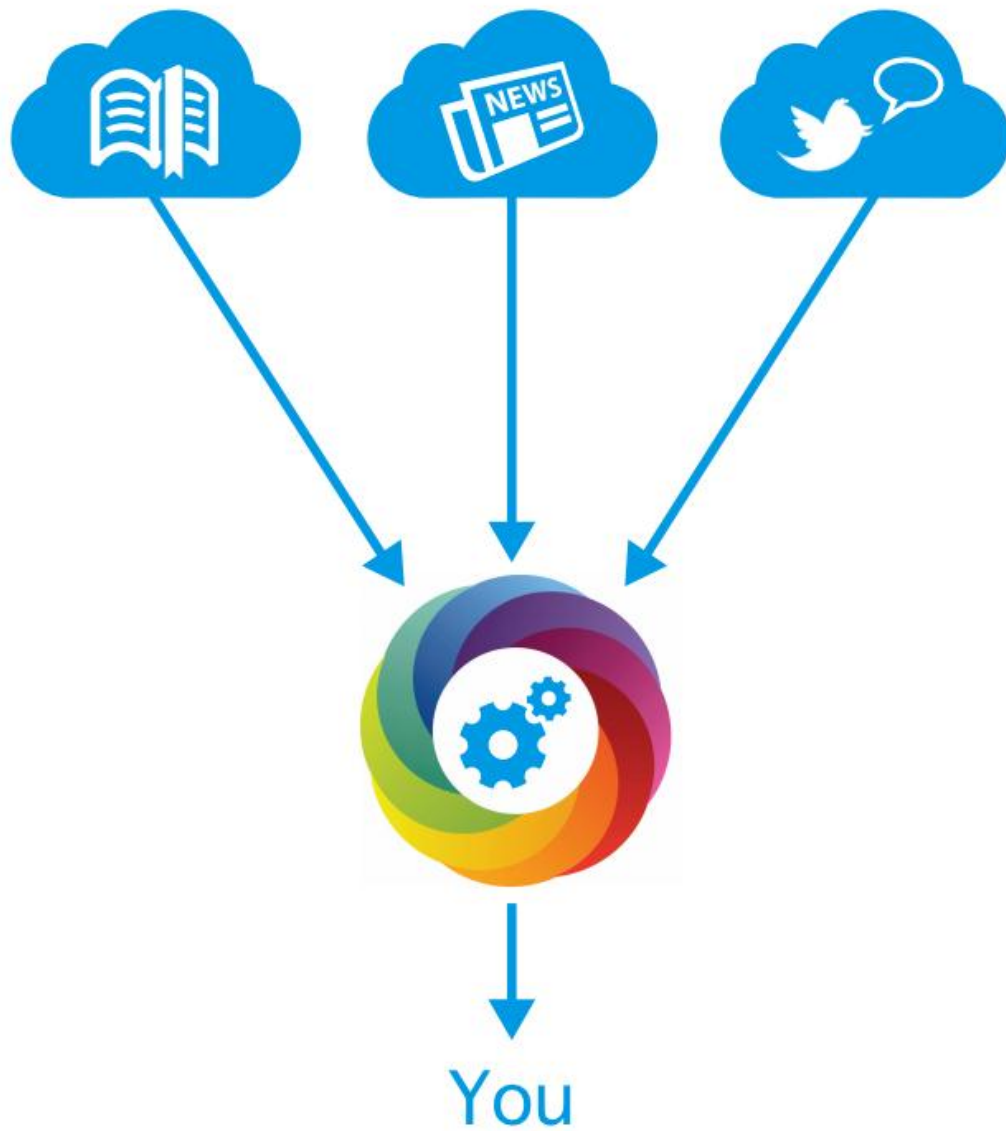
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### The tomato genome sequence provides insights into fleshy fruit evolution

The Tomato Genome Consortium

Affiliations | Contributors | Corresponding authors

Nature 485, 635–641 (21 May 2012) | doi:10.1038/nature11118  
Received 17 August 2011 | Accepted 02 April 2012 | Published online 30 May 2012

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Status: 2012 May 31;485(7405):635-41. doi: 10.1038/nature11118

### The tomato genome sequence provides insights into fleshy fruit evolution.

Tomato Genome Consortium  
Collaborators (317)

Abstract  
Tomato (*Solanum lycopersicum*) is a major crop plant and a model system for fruit development. *Solanum* is one of the largest angiosperm genera and includes annual and perennial plants from diverse habitats. Here we present a high-quality genome sequence of domesticated tomato, a draft *Solanum pimpinellifolium*, and compare them to each other and to the potato genome (*Solanum tuberosum*), 0.6% nucleotide divergence and signs of recent admixture, but show more than 8% divergence from potato, with one. In contrast to Arabidopsis, but similar to soybean, tomato and potato small RNAs map predominantly to long gene promoters. The *Solanum* lineage has experienced two consecutive genome duplications: one that is more recent one. These duplications set the stage for the neofunctionalization of genes controlling fruit richness.

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2012Natur 485.6357

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### The tomato genome sequence provides insights into fleshy fruit evolution

The Tomato Genome Consortium; Sato, Shusei; Tabata, Satoshi; Hirakawa, Hideki; Asamizu, Erika; Shirasawa, Kenta; Itohe, Sachiko; Kaneko, Takakazu; Nakamura, Yasukazu; Shibata, Daisuke; and 293 coauthors  
show affiliations

Nature, Volume 485, Issue 7405, pp. 635-641 (2012)  
Published in May 2012  
DOI: 10.1038/nature11118

Tomato (*Solanum lycopersicum*) is a major crop plant and a model system for fruit development. *Solanum* largest angiosperm genera and includes annual and perennial plants from diverse habitats. Here we present a high-quality genome sequence of domesticated tomato, a draft sequence of its closest wild relative, *Solanum pimpinellifolium*, and compare them to each other and to the potato genome (*Solanum tuberosum*). The 1 genomes show only 0.6% nucleotide divergence and signs of recent admixture, but show more than 8% from potato, with nine large and several smaller inversions. In contrast to Arabidopsis, but similar to soybean and potato small RNAs map predominantly to gene-rich chromosomal regions, including gene promoters. *Solanum* lineage has experienced two consecutive genome duplications: one that is ancient and shared and a more recent one. These duplications set the stage for the neofunctionalization of genes controlling characteristics, such as colour and fleshiness.

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Journal List > Europe PMC Author Manuscripts > PMC3376239

Europe PMC Funders Group  
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Accepted for publication in a peer-reviewed journal  
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Nature. Author manuscript; available in PMC 2012 November 30.  
Published in final edited form as:  
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doi: 10.1038/nature11118

PMCID: PMC3376239  
EMID: UKM547548

### The tomato genome sequence provides insights into fleshy fruit evolution

The Tomato Genome Consortium (TGC)  
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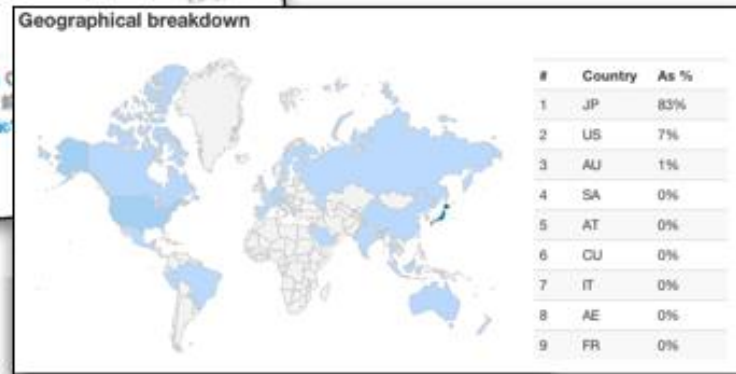
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25 Oct 11

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RT @r\_isotope: 新着論文 <http://t.co/Df34tgV1> あり。Xe133の大気放出は1.7e19Bqでチェルノブイリの半分。ネイチャー誌に記事 <http://t.co/gN0c> 掲載。



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92	4,586	6,401	8.55		<b>Scientific Reports</b> Add to filters
162	2,927	4,775	9		<b>Pediatrics</b> Add to filters
83	2,119	3,060	11.85		<b>Nature Climate Change</b> Add to filters
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Metrics for:

## The biological impacts of the Fukushima nuclear accident on the pale grass blue butterfly

Atsuki Hiyama, Chiyo Nohara, Seira Kinjo, Wataru Taira, Shinichi Gima, Akira Tanahara & Joji M. Otaki

*Scientific Reports* 2, Article number: 570 (2012) | doi:10.1038/srep00570

### Total citations



### Sharing & bookmark metrics

Tweets	2142	Facebook	131
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Reddit	9	Blog posts	3

Last updated: 6 December 2012 13:42:34 EST

### Mentions in news, blogs & Google+

News articles (10) **Scientific blogs (3)** Google+ posts (9)

**Atomkatastrophe: forscher entdecken fukushima-mutationen**

Der Spiegel

**Dopo fukushima, le farfalle non hanno più le ali**

Corriere della Sera

**Fukushima butterflies 'abnormal'**

BBC

**Des papillons modifiés génétiquement par les radiations de fukushima**

Le Monde

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**Jon Tennant**  
@Protohedgehog

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**Dr. Wrasse** @labroides

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2m

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[PLOS ONE: Science PhD Career Preferences: Levels, Changes, and Advisor Encouragement](http://plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0036307)

[plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0036307](http://plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0036307)



**hsauermann** Henry Sauermann

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**~ 20k**

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~ **54%**

of papers have single share

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Growing at  
10% a  
month



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Blogs

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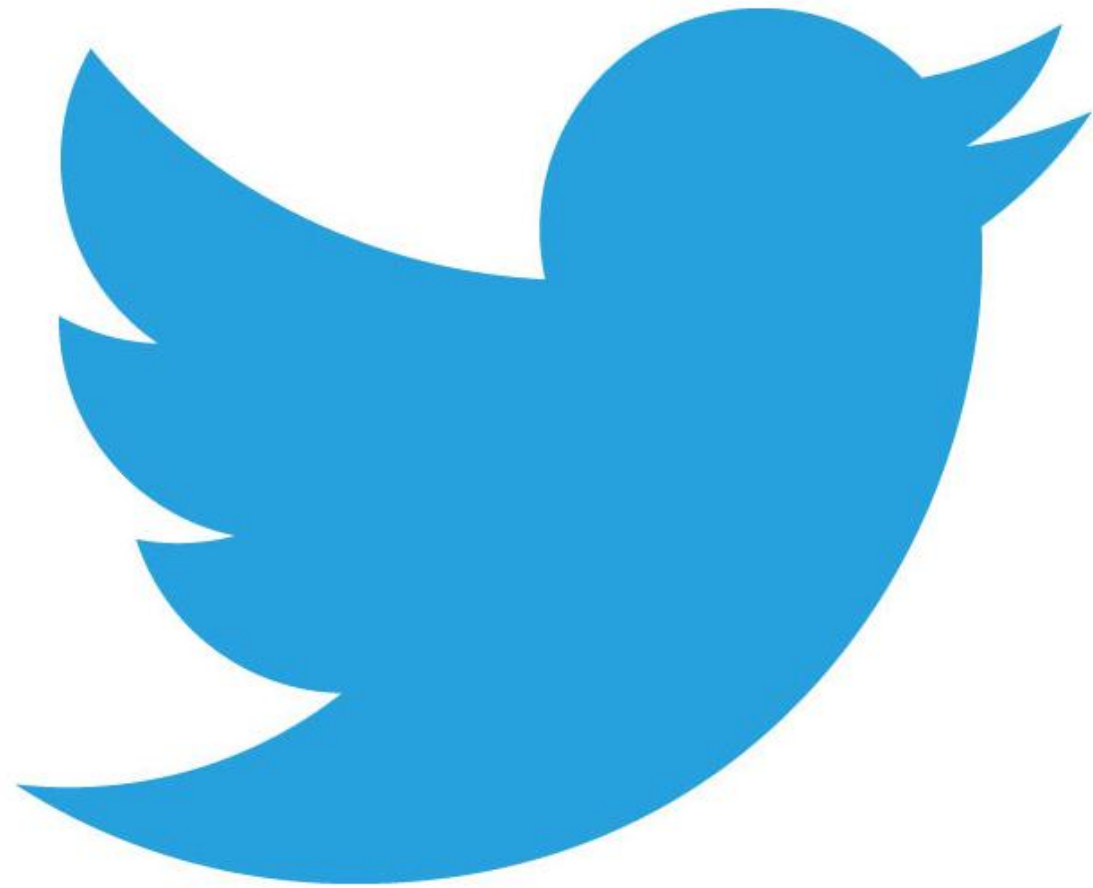
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but still  
important



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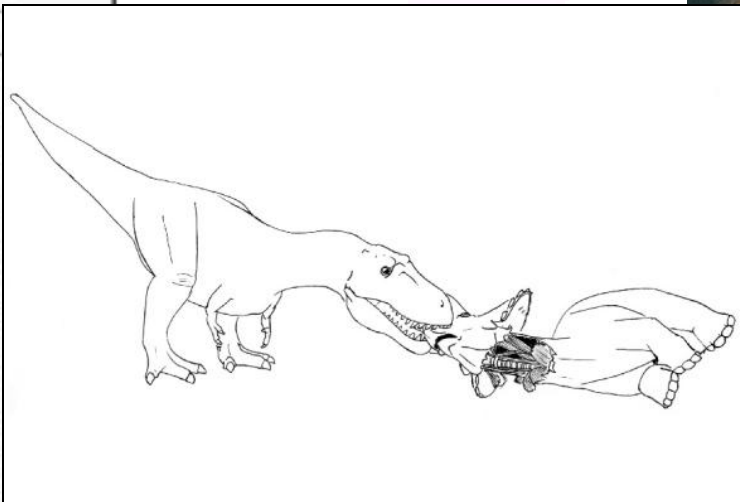
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**Table 1.**

2009 Infant mortality rates, top 34 nations<sup>B</sup>

Rank	Country	IMR
1	Singapore	2.31
2	Sweden	2.75
3	Japan	2.79
4	Iceland	3.23
5	France	3.33
6	Finland	3.47
7	Norway	3.58
8	Malta	3.75
9	Andorra	3.76
10	Czech Republic	3.79
11	Germany	3.99
12	Switzerland	4.18



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**1% negative sentiment**

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**~ 10% author / publisher**

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- 3 days
- 1 week
- 1 month
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- 6 months
- 1 year
- Any time

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In these journals

With identifiers

From publisher

With Medline subjects

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## TWEET



ROMA  
marktonderzoek  
@roma\_research

Are happy managers more productive? <http://t.co/ek01mDyl> Interesting rese #HRIZON

10 The impact of happiness on managers' contextual and task performance Journal of Human Resources

man Resources

27 Sep 12 07:14

## TWEET



ぼおずぎ山  
@hoozukiyama

タバコの話題: 喫煙者の遺伝子変異率は非喫煙者の10倍以上の頻度だそうです。患者の全ゲノム研究ですが、タバコの悪影響が、ここまで具体的に赤裸々になったのは、初めてではないでしょうか。衝撃!

505 Genomic Landscape of Non-Small Cell Lung Cancer in Smokers and Never-Smokers Cell

27 Sep 12 07:13

## TWEET



Sheena Jeffers  
@sheenajeffers

RT @ADTAorg: Dance/movement therapy effective in short & long term to improve quality of life. <http://t.co/yCkgP5FW> Arts in Psychotherapy

9 The efficacy of dance movement therapy group on improvement of quality of life: A randomized controlled trial The Arts in Psychotherapy

27 Sep 12 07:12

## TWEET



TheActiveSynergist  
@activesynergist

@runnersworld Here is an interesting study on the effects of static stretching before training #running #10 Tips <http://t.co/FSsoTpmR>

19 Effects of static stretching on energy cost and running endurance performance. The Journal of Strength Hornbuckle, Lyndsey M;Kim, Jeong-Su;Ugrinowitsch, Carlos;Lee, Sang-Rok;Zourdos, Michael C;Sommer, Brian;Panton, Lynn B

27 Sep 12 07:12

## TWEET



Nicki Whitehouse  
@fossilbeetle

Super cool paper: Interglacial insects and their possible survival in Greenland during the last glacial stage <http://t.co/vb0HXBZN>

# Come see the data for yourself!



# Time's Up!

Euan Adie

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<http://www.altmetric.com>

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