

# **IWGSC Communication Resources**

**Isabelle Caugant**

**IWGSC Communications Officer**

PAG XXIV  
January 2016



[www.wheatgenome.org](http://www.wheatgenome.org)

# The IWGSC website

[www.wheatgenome.org](http://www.wheatgenome.org)

- Project outlines & updates
- Tools & resources
- Next meetings & workshops
- Community news
- IWGSC Publications
- Key individuals
- Awards
- Presentations
- Press releases
- Fact sheets & Infographics

**International Wheat Genome Sequencing Consortium**

Generating a high quality genome sequence of bread wheat

Navigation: About | News | IWGSC Activities | People | Meetings and Workshops | **Projects** | Tools and Resources

**LEADER SPOTLIGHT**

**Hana Šimková**, senior scientist at the Institute of Experimental Botany (IEB) and lecturer at Palacký University (both located in Olomouc in the Czech Republic), is well known for pioneering the development of novel methods of chromosomal genomics in plants, from the preparation of sequencing-ready chromosomal DNA, or high-molecular-weight DNA, to the construction of BAC libraries.

Read her profile [here](#)

**SCIENCE SPECIAL ISSUE**

On 18 July 2014, the IWGSC published in the international journal *Science* a draft sequence of the bread wheat genome. The chromosome-based draft provides new insight into the structure, organization, and evolution of the large, complex genome of the world's most widely grown cereal crop.

**IWGSC NEWS**

- [Wheat Genome Sequencing Gets Major Boost](#) A high quality bread wheat reference sequence will be available in less than two years. The International Wheat Genome Sequencing Consortium (IWGSC)...
- [2005-2015: A video](#) Ever wondered how it all started? Watch the video featuring interviews of individuals who had a vision, decided to join force and embarked on this...
- [2005-2015: An image gallery](#) 10 years of meetings, hard work and good time with friend and colleagues.
- [2005-2015: A timeline](#) A look back at the main

**IWGSC AT PAG 2016**

**Saturday 9 January**  
8:00 to 10:10  
IWGSC Workshop  
[program](#) - [speaker profiles](#)

**Saturday 9 January**  
18:20 to 20:00  
Open Business Meeting

**Tuesday 12 January**  
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Standards & Protocols Workshop  
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**PRESS RELEASES**

**6 January 2016 - Wheat Genome Sequencing Gets Major Boost**

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The IWGSC announced today the production of a whole genome assembly of bread wheat, the most widely grown cereal in the world, significantly accelerating global research into crop improvement.

**PROJECTS PROGRESS OVERVIEW**

	1A	2A	3A	4A	5A	6A	7A	1B	2B	3B	4B	5B	6B	7B	1D	2D	3D	4D	5D	6D	7D	
Phys. Map	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Survey Seq.	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Ref. Seq.	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

**FACT SHEETS**


**Sequencing the wheat genome**

A checklist with 11 tasks for each phase:

- Finalize the draft genome:** Assemble the draft genome, check for errors, and release the draft genome.
- Finalize the reference genome:** Assemble the reference genome, check for errors, and release the reference genome.
- Finalize the physical map:** Assemble the physical map, check for errors, and release the physical map.
- Finalize the survey sequence:** Assemble the survey sequence, check for errors, and release the survey sequence.
- Finalize the reference sequence:** Assemble the reference sequence, check for errors, and release the reference sequence.



# Project page



**International  
Wheat Genome  
Sequencing  
Consortium**

Generating a high quality genome sequence of bread wheat

Chr1A - WHEAT URGI


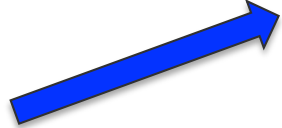
wheat-urgi.versailles.inra.fr/Chr1A

**Projects**

- > [IWGSC Bread Wheat Projects](#)
- > [Physical mapping](#)
- > [Sequencing](#)
- > [Whole Chromosome Reference Sequencing Projects](#)
  - > [1A Reference Sequencing](#)
  - > [1B & 4B Reference Sequencing](#)
  - > [2B Reference Sequencing](#)
  - > [3BSEQ](#)
  - > [5D Reference Sequencing](#)
  - > [6A & 2D Reference Sequencing](#)
  - > [6B Reference Sequencing](#)
  - > [7A Reference Sequencing](#)
  - > [7B Reference Sequencing](#)
  - > [7DS Reference Sequencing](#)
  - > [Sequencing standards](#)
- > [IWGSC Chromosome Survey Sequencing](#)
- > [454 Chromosome Survey Sequencing](#)
- > [Projects by chromosome](#)
- > [Funding](#)
- > [IWGSC Ae. tauschii Projects](#)
- > [IWGSC RH Maps](#)
- > [Complimentary Projects](#)

## Genomic Strategies to Improve Wheat

### Targeted chromosomes

Click on a chromosome to access associated data (when available)

### Project team

**Project Leader:** [Curtis Pozniak](#) (curtis.pozniak@usask.ca)

First name	Last name	Email	Institution	Country
Pierre	Hucl	pierre.hucl@usask.ca	University of Saskatchewan	Canada
Andrew	Sharpe		NRC-PBI	Canada
Dean	Spaner		University of Alberta	Canada
Mark	Jordan		Agriculture and Agri-Food Canada CRC	Canada
Curt	McCartney		Agriculture and Agri-Food Canada CRC	Canada
Ron	Knox		Agriculture and Agri-Food Canada SPARC	Canada
Harpinder	Randhawa		Agriculture and Agri-Food Canada LRC	Canada
Faouzi	Bekkaoui		NRC-PBI	Canada
Viktoriya	Galushko		University of Regina	Canada
Richard	Gray		University of Saskatchewan	Canada

### Project collaborators

First name	Last name	Email	Institution	Country
Hikmet	Budak	budak@sabanciuniv.edu	Sabanci University	Turkey
Beat	Keller	bkeller@botinst.uzh.ch	University of Zurich	Switzerland



www.wheatgenome.org

# People section

[www.wheatgenome.org](http://www.wheatgenome.org)

## People Section

- Recognizing key individuals in wheat research
- Increase visibility
- Profiles & interviews

**International Wheat Genome Sequencing Consortium**  
Generating a high quality genome sequence of bread wheat

Navigation: About | News | IWGSC Activities | **People** | Meetings and Workshops | Projects | Tools and Resources

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Ref. Seq.	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

**FACT SHEETS**  
**Sequencing the wheat genome**  
  
 A high-quality draft sequence of the bread wheat genome is available. The sequence is being used to identify genes and to study the evolution of the wheat genome. The sequence is being used to identify genes and to study the evolution of the wheat genome. The sequence is being used to identify genes and to study the evolution of the wheat genome.



# Recognizing key individuals in wheat research

→ [www.wheatgenome.org/People](http://www.wheatgenome.org/People)

## Leader spotlight

[Home](#) / [People](#) / [Leader Spotlight](#)



**Hana Šimková**  
Published: 10/12/2015 11:23 a  
Hana Šimková, senior scien  
(both located in Olomouc in  
methods of chromosomal ge  
or high-molecular-weight D



**Hikmet Budak**  
Published: 06/23/2015 03:36 p  
Hikmet Budak is a Professo  
University, Turkey, where he  
Professor at the University o  
responses in cereals, and th  
regulators, such as microRN



**Curtis Pozniak**  
Published: 03/09/2015 05:29 p  
Curtis Pozniak is a profess  
Saskatchewan (Canada), a  
Development Centre. His w  
to supervising graduate stud

Next Leader Spotlight: Sebastien Praud

## Awards

### → Leadership award

[Home](#) / [People](#) / [Leadership Award](#)



**Gregoire Berthe**  
Published: 11/16/2015 02:53  
Grégoire Berthe was awa  
support to the Internationa  
received his award in Nov  
(France), organized by th

### → Early Career Award

[Home](#) / [People](#) / [Early Career Award](#)



**Tingting Zhu**  
Published: 11/25/2015 04:55  
Tingting Zhu was awarde  
**PAG.**



# IWGSC Activities

[www.wheatgenome.org](http://www.wheatgenome.org)

## IWGSC Activities

- Articles published in magazines
- Presentations at meetings
- Meeting calendar
- IWGSC Workshops: program, abstract, speaker profiles, slides

**International Wheat Genome Sequencing Consortium**  
Generating a high quality genome sequence of bread wheat

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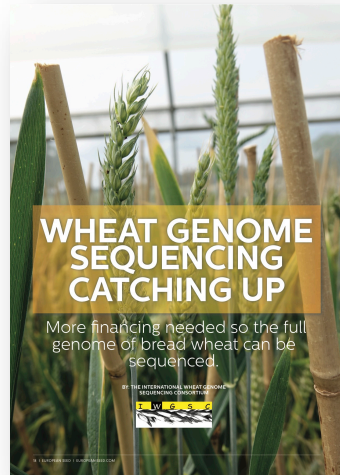
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Survey Seq.	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Ref. Seq.	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

**FACT SHEETS**  
**Sequencing the wheat genome**  
  
 A handbook with 51 tracks for each genome. Based on a book of 4000 genes. Get tiny large pieces. Decide the order of each piece. Order the pieces. Make copies. Find the messages. Put all the pieces back together.



# News from the IWGSC

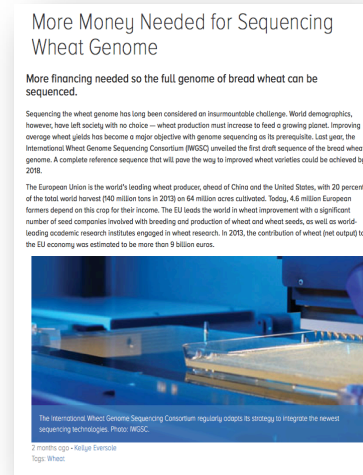
## Articles



European Seed – June 2015



International Innovation – July 2015



Seed World – Oct 2015

[Home / IWGSC Activities / Publications](#)

## Presentations



[Home / IWGSC Activities / Presentations](#)

## Workshops

**Program of IWGSC workshop at PAG 2016**  
 Published: 10/27/2015 09:45 am  
 The IWGSC scientific workshop at **PAG 2016** will take place on Saturday 9 January 2016 from 8:00 to 10:10 am. The workshop will include a talk on the Emmer wheat sequencing project and other talks on the generation or use of wheat genomic resources. As usual, the workshop also will include a talk by an early career award recipient. This award is given to a young scientist nominated by anyone in the wheat community and selected by the IWGSC leadership.

**Program of IWGSC Standards & Protocols workshop at PAG 2016**  
 Published: 11/04/2015 12:07 pm  
 The IWGSC Standards and Protocols workshop at **PAG 2016** will take place on Tuesday 12 January 2016 from 1:30 to 6:10 pm. The workshop will focus on the assembly and quality control of BAC-based chromosome pseudomolecules and the integration of multiple map and sequence-based resources to produce the bread wheat genome reference sequence.

[Home / Meetings and Workshops / Next workshop](#)



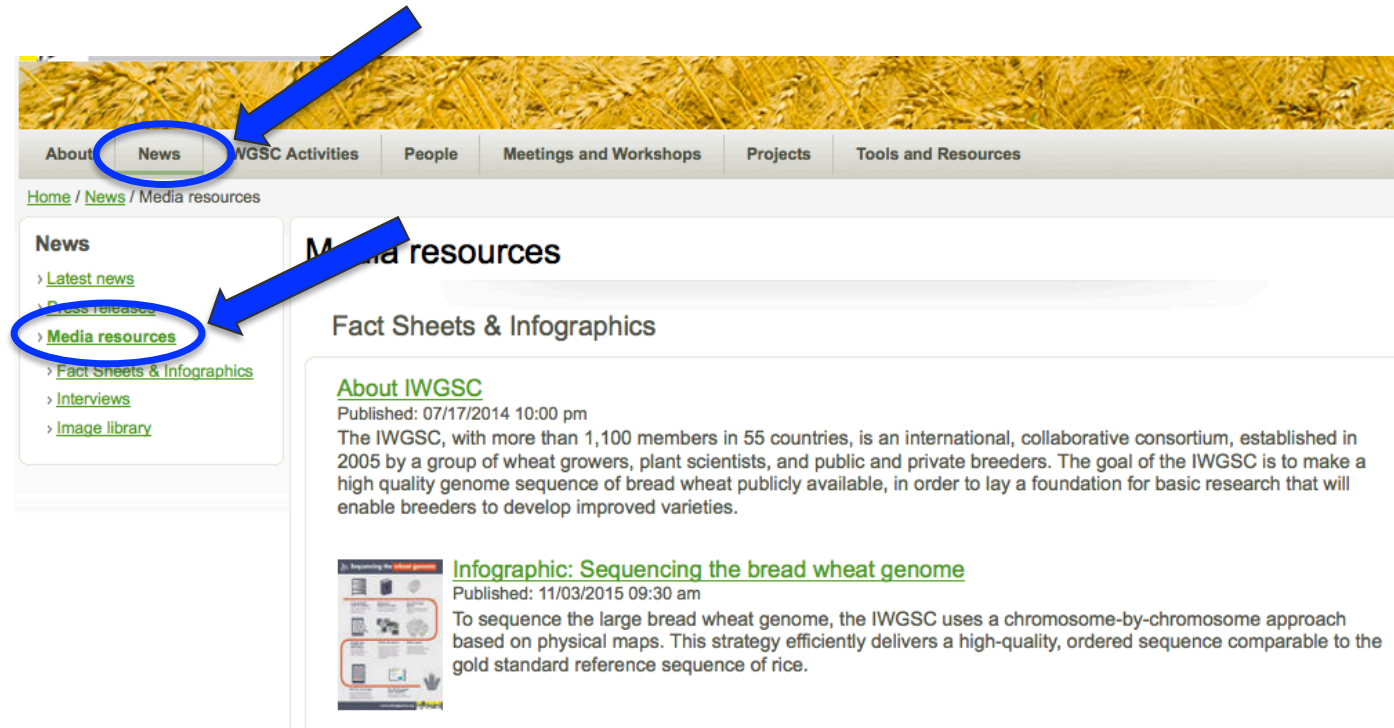
[www.wheatgenome.org](http://www.wheatgenome.org)

# Media Resources

[www.wheatgenome.org](http://www.wheatgenome.org)

## Media Resources

- Press releases
- Infographics
- Image library
- Video interviews



The screenshot shows the IWGSC website navigation menu with 'News' circled in blue. A dropdown menu is open under 'News', with 'Media resources' also circled in blue. Two blue arrows point to the 'News' menu item and the 'Media resources' link. The main content area displays 'Media resources' with a sub-section for 'Fact Sheets & Infographics'. The first item is 'About IWGSC', published on 07/17/2014, describing the consortium. The second item is 'Infographic: Sequencing the bread wheat genome', published on 11/03/2015, describing the chromosome-by-chromosome sequencing approach.





# Media resources

## Press releases

Wheat Sequencing Consortium is Producing New Tools for Wheat Breeders

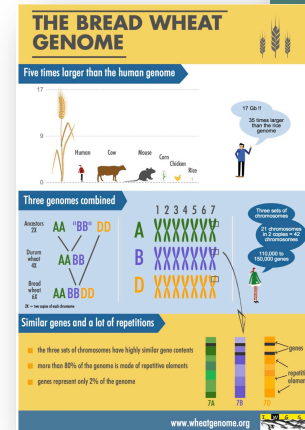
Bethesda, Germany Steps Up Its Wheat Sequencing Effort  
German teams to sequence two wheat chromosomes

Bethesda, Wheat Genome Sequencing Gets Major Boost  
A high quality bread wheat reference sequence will be available in less than two years  
Bethesda, Maryland, USA – 6 January 2016



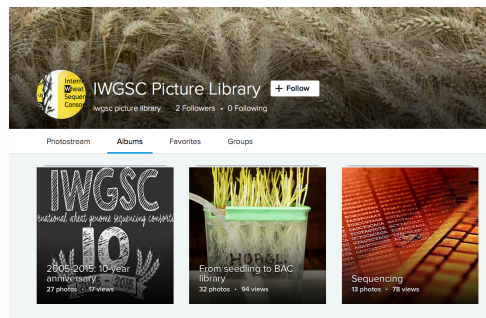
[Home / News / Press releases](#)

## Infographics



[Home / News / Media resources / Fact Sheets & Infographics](#)

## Image library



[Home / News / Media resources / Image library](#)

## Video Interviews



[Home / News / Media resources / Interviews](#)

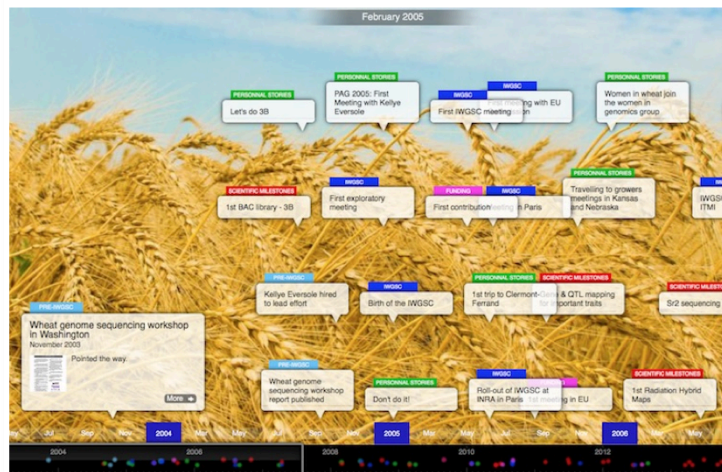


# IWGSC 10-year anniversary

## Timeline

A look back at the main events of the last 10 years.

Click on the image below to browse the timeline (external link)



## Pictures



[Home / IWGSC Activities / 10-year anniversary](#)

## Interviews

Ever wondered how it all started?  
Watch the video featuring interviews of individuals who had a vision, decided to join force and embarked on this long, frustrating at times, but rewarding journey.

Click on the image below to watch the video (external link)



<https://www.youtube.com/watch?v=5Ewwh7bdWrY>

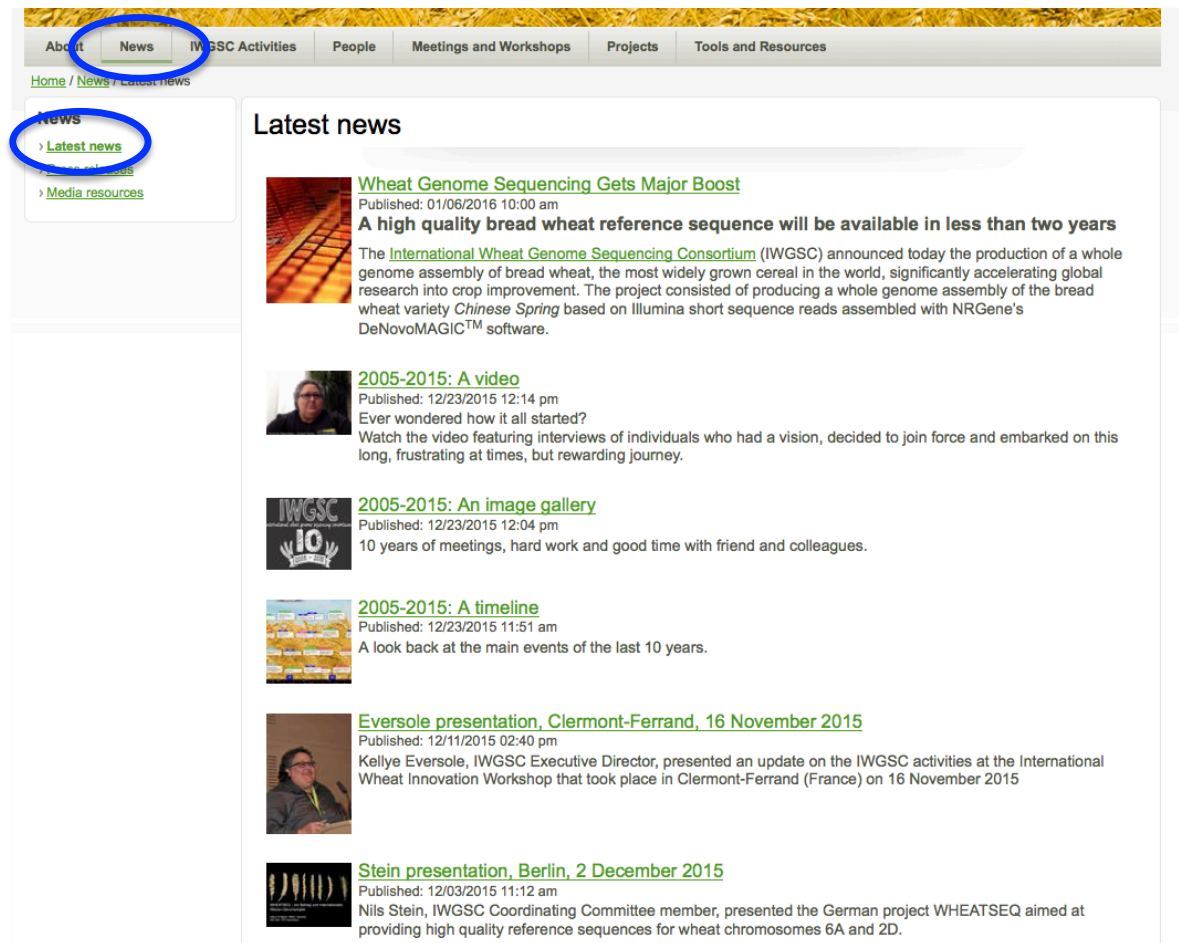


[www.wheatgenome.org](http://www.wheatgenome.org)

# How to stay informed about the latest IWGSC news?

Website

[Home / News / Latest News](#)



The screenshot shows the IWGSC website's navigation menu with 'News' circled in blue. Below the menu, a 'News' sidebar also has 'Latest news' circled in blue. The main content area is titled 'Latest news' and lists several articles with their respective dates and brief descriptions.

- Wheat Genome Sequencing Gets Major Boost**  
Published: 01/06/2016 10:00 am  
A high quality bread wheat reference sequence will be available in less than two years  
The International Wheat Genome Sequencing Consortium (IWGSC) announced today the production of a whole genome assembly of bread wheat, the most widely grown cereal in the world, significantly accelerating global research into crop improvement. The project consisted of producing a whole genome assembly of the bread wheat variety *Chinese Spring* based on Illumina short sequence reads assembled with NRGene's DeNovoMAGIC™ software.
- 2005-2015: A video**  
Published: 12/23/2015 12:14 pm  
Ever wondered how it all started?  
Watch the video featuring interviews of individuals who had a vision, decided to join force and embarked on this long, frustrating at times, but rewarding journey.
- 2005-2015: An image gallery**  
Published: 12/23/2015 12:04 pm  
10 years of meetings, hard work and good time with friend and colleagues.
- 2005-2015: A timeline**  
Published: 12/23/2015 11:51 am  
A look back at the main events of the last 10 years.
- Eversole presentation, Clermont-Ferrand, 16 November 2015**  
Published: 12/11/2015 02:40 pm  
Kellye Eversole, IWGSC Executive Director, presented an update on the IWGSC activities at the International Wheat Innovation Workshop that took place in Clermont-Ferrand (France) on 16 November 2015
- Stein presentation, Berlin, 2 December 2015**  
Published: 12/03/2015 11:12 am  
Nils Stein, IWGSC Coordinating Committee member, presented the German project WHEATSEQ aimed at providing high quality reference sequences for wheat chromosomes 6A and 2D.

Newsletter

*Emailed to members  
Three times a year*



Newsletter N° 3/2015

**IWGSC Newsletter – September 2015 to 8 January 2016**

Dear IWGSC Members and Friends,



[www.wheatgenome.org](http://www.wheatgenome.org)

# The IWGSC can...

- Feature news about your publications on the IWGSC website
- Publish coordinated press releases/news announcements
- Help you disseminate your news to targeted media outlets

Keep us informed of your latest publications  
Let us know your publication plans



# Media Coverage

Press release

## Wheat Genome Sequencing Gets Major Boost

Published: 01/06/2016 10:00 am - Last modified: 01/08/2016 04:38 pm [Tweet](#)

**A high quality bread wheat reference sequence will be available in less than two years**

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The public-private collaborative project is coordinated by the IWGSC and co-led by Nils Stein of IPK Gatersleben in Germany, Curtis Pozniak of the University of Saskatchewan's Crop Development Centre in Canada, Andrew Sharpe of the Global Institute for Food Security in Canada, and Jesse Poland of Kansas State University in the United States. Project participants also include researchers from Illumina, Inc.; NRGene in Israel and the United States; Tel Aviv University in Israel; and the French National Institute for Agricultural Research (INRA).

Funding for this project was provided by Genome Canada, Genome Prairie, Saskatchewan Ministry of Agriculture, the Saskatchewan and Alberta Wheat Development Commissions, and the Western Grains Research Foundation through the Canadian Triticum Applied Genomics (CTAG<sup>2</sup>) project, Kansas State University through the US National Science Foundation Plant Genome Research Program, and Illumina, Inc.



[www.wheatgenome.org](http://www.wheatgenome.org)

# Media Coverage

Press release



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INFORMATION AND RESOURCES ON PRECISION TECHNOLOGY FOR AGRICULTURE

ScienceDaily®

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MONTHLY National

THE WESTERN  
PRODUCER

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AG PROFESSIONAL



Grain  
market news

Consortium (IWGSC) announce  
road wheat, the most widely gr

usagnet

food  
ingredients 1<sup>st</sup>



AGWIRED

for Food Security  
ates. Project parti  
United States; Tel  
search (INRA).

AGWEEK

SeedWORLD

ESS  
develop  
an Tritic  
onal Sci

SeedQuest®

AgriPulse®

Balanced Reporting. Trusted Insights.



genomeweb

I W G S C



[www.wheatgenome.org](http://www.wheatgenome.org)



For more information



[www.wheatgenome.org](http://www.wheatgenome.org)

Isabelle Caugant



[communications@wheatgenome.org](mailto:communications@wheatgenome.org)



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