

## News Release

# Lonza Announces Student Competition Winners: 27<sup>th</sup> Annual Invention Science Contest Student Winners Devise Inventions to Preserve Earth's Life Forms

**Bend, OR (USA), 30 November 2018** – Today Lonza announced the 27<sup>th</sup> Annual Invention Science Contest Winners. Central Oregon students identify ways to preserve Earth's life forms in the 27<sup>th</sup> annual Invention contest. This contest is sponsored by Bend Research, now a part of Lonza Pharma & Biotech, Bend-La Pine Schools, and Central Oregon Community College.

From the 1,443 students who entered the competition from 24 schools in Central Oregon, 163 students took home awards. Lonza announced the winners today.

This year's competition problem statement was as follows:

***“European lions and Javan tigers and giant short-faced bears, oh my! These are just a few examples of species that have become extinct. Invent something to preserve Earth's life forms.”***

In the high school division, Summit High School freshman Teaghan Knox took first place, earning \$700 for her non-lethal predator deterrent necklace to help protect livestock in low-income locales.

Second place prizes of \$500 each were awarded to two different entries, both from Summit High school. Freshman Zoe Doden developed a biologically equipped, eco-friendly micro-drone to aid in non-invasive sampling and medication administration to wild animal populations. Sophomores Tanner Taylor and Owen Wheary thought out an interesting use of CRISPR technology to develop a new bamboo species that would help combat deforestation.

The third place prize of \$300 was shared by a Ridgeview High School team of Seniors (Ben Allard, Karlie Bunting and Isaac Rojo) which developed a novel “Rhino Ranch” to combat poaching of rhino herds via healthy horn harvesting practices.

The top middle school prize was won by Sanjay Green, a sixth grader from Pacific Crest Middle School. Sanjay invented a buoy that can be used to rid the oceans of oil. This buoy can be re-used multiple times and placed in a variety of environments to reduce pollution in our oceans and save marine life. Sanjay chose a GoPro Hero7 from a list of prizes.

Hundreds of students in lower grades submitted entries, either individually or as teams of up to three. Several students at each grade level will receive prizes for their submissions along with an invitation to a special Science Night program held in their honor at the Lonza laboratory site in Tumalo, OR (USA). Some of the inventions which made the biggest impressions include the following:

- A kindergartener with a mind for local environmental issues devised a bullfrog trap to protect Oregon spotted frogs from predation. The device also includes a water filter to remove nitrates from the environment.
- A clever 1st grader noticed the lion population is in danger due to poaching. They invented a security collar to be worn by lions, notifying them when humans are close.
- A 2<sup>nd</sup> grader worried about the threat of an asteroid from outer space theorized an intricate early warning system for asteroids, a danger that could doom us all.
- A 3<sup>rd</sup> grade student developed an “All Seasons Bee Habitat,” creating an artificial hive that protects the bees with tunnels for protection.
- The Great Barrier Reef is dying due to increasing water temperatures so an ambitious 4<sup>th</sup> grader developed a Great Barrier Cooler that used a fish-friendly wave energy buoy to cool the water around it.
- A 5<sup>th</sup> Grader designed a system for diverting water from rivers in a way that preserved fish migration

routes, removed garbage from the waterways, and generated hydroelectricity for the City of Redmond.

Winners from each grade level and the schools they attend are listed below. Additional information can be found on the Inventerprise [website](#).

## Inventerprise 2018 Winners

### Kindergarten

Bear Baxter – *High Lakes Elementary*  
 Harrison Hume, Kyden Smith, Frankie Zolfo – *St. Francis of Assisi Catholic School*  
 Dillon Ostendorff – *Pine Ridge Elementary*  
 Ryleigh Forsell

### Grade 1

Ava Hershman – *Cascades Academy*  
 Carver Jensvold, Kyla Rahner, Cade Houghton, Cruz Nerio, Isaac LaMascus, Jonathon Puga, Ben Veres – *Elk Meadow Elementary*  
 Aksel Stevens, Hawk Grosso – *High Lakes Elementary*  
 Preston Donaldson, Charlie Johnson, Cody Thurman, Lainey Crowley, Samantha Freed, Penny West – *Morning Star Christian School*  
 Alex Pineda – *St. Thomas Academy*  
 Cannon Helzer – *Westside Village Magnet School*

### Grade 2

Aria Covell, Sabrina Farkas – *Cascades Academy*  
 John Flannery, Georgia Dodge – *High Lakes Elementary*  
 Megan Hornsby – *Juniper Elementary*  
 Peyton Egeland, Landon Schock, Jackson Lilly, Roman Wright – *Seven Peaks School*  
 Brennan Holcomb, Lyan Mitma, Madeleine Reynolds – *St. Francis of Assisi Catholic School*  
 Torrin Contreras, Gianna Cermak, Kaylee Valazquez – *St. Thomas Academy*  
 Marcos Brosius, Jacob McLemore, Fox O'Brien – *Westside Village Magnet School*

### Grade 3

Iain Bennette, Graham Finley – *Baker Charter School*  
 Reid Williams, Griffin Doering, Liam Erickson, Kayleigh Mahony – *High Lakes Elementary*  
 Monte Buccola, Matthew Curtis, William Cohen, Brady Smith, Lucy Lappe – *St. Francis of Assisi Catholic School*  
 Cecilia Fosbury, Gabriel Beaune-Hirata, Vianna Killo, Ryan Click, Peyton Adams, Colby Leffler, Addison Threet, Benjamin Raiz – *Tom McCall Elementary*  
 Cade Killebrew, Carter Larson – *Trinity Lutheran School*  
 Nikhil Konagurthu, Alexis McCoy – *Westside Village Magnet School*

### Grade 4

Skye Knox – *Bear Creek Elementary*  
 Rynn Van Meter, Bentley Deal, Parker Blodgett, Rhianwen Hornsby, Novalee Conners, Adele Caram, Sophia Bartlemay – *Juniper Elementary*  
 Dalila Powderly, Owen D'Avignon, Alex Jenson, Scarlett Schock, Nina Taft – *Seven Peaks School*  
 June Williams – *St. Francis of Assisi Catholic School*  
 Ryder Faulhaber – *St. Thomas Academy*

### Grade 5

Lydia Chance – *High Lakes Elementary*  
 Lee Miller, Lauren Lilly, Lucy Patterson, Landon Battles, Elizabeth Connolly, Addison McHugh, Cami Laakmann, Sheamus Maguire, Gavin Ortiz, Bram Gerken, Cecilia Dean, Conrad Dodge, Campbell Thomas – *Juniper Elementary*  
 Hailey Clark – *Ponderosa Elementary*  
 Katelyn Adair, Camella Johnson, Maddelynn Rocheforte, Jordon Zitek, Joanna Daniels, Amiya Kamanya, Madeline Trayser, Elisa Throneberry, Khaleenah Turner, Sydni Wilson, Cooper Hutt, Isabella Thuren – *Silver Rail Elementary*  
 Aiden Towell – *St. Francis of Assisi Catholic School*  
 Ira Merrill, Jaiden Blumenschein – *Three Rivers School*  
 Colton Andrews, Nathan Liddell, Wyatt Horner, Mia Lynch – *Tom McCall Elementary School*  
 Mya Luna, Calvin Hamman – *Vern Patrick Elementary*  
 Luka Anderson, Noah Phillips, Leunam Carreno-Beltran, Asa King, Kayleigh Fraser, Emma Sweet – *Westside Village Magnet School*

### Middle School

Avery Hammons, Emerson Williams, Thielsen Wardlow, Ella Chieda, Kush Goyal, Adi Fenty, Curran Jacobus – *Cascade Middle School*  
 Eban Moline, Bella Mullan, Ivy Phillips – *Cascades Academy*  
 Kailee Macy, Jade Carroll, Karishma Sehgal – *Culver Middle School*  
 Sanjay Green, Arden Conde, Siena Keith, Quinn Raynak, Abigail Billeter, Quincy Doden, Allison Holdredge – *Pacific Crest Middle School*  
 Megan McGuire, Grace Gaines, Wyatt Lawson – *St. Francis of Assisi Catholic School*  
 Will Mowry, Serafina Quercini, Quincy Bernahl, Dennis Drury, Cooper Andersen, Kai Brennan, Paul King, Rilee Credicott, Poppy Fridae – *Westside Village Magnet School*

### High School

Ben Allard, Karlie Bunting, Isaac Rojo – *Ridgeview High School*  
 Zoe Doden, Teaghan Knox, Tanner Taylor, Owen Wheary – *Summit High School*

## About Inventerprise

The Inventerprise Contest began in 1992 as an outgrowth of a business-education partnership between Bend Research (now a part of Lonza) and the Bend-La Pine School District to promote science education and enrich students' educational experience. In 2003 Central Oregon Community College joined the effort by helping to plan and run the contest. For more information regarding the Inventerprise contest or to request contest rules, please visit the website or call Amanda Pluntze, Nate Glutting or contest director Dory Koehler-King at Bend Research.

## About Bend Research, now Lonza Pharma & Biotech

Bend Research, a leader in creating value by advancing medicines that improve human health, is now a part of Lonza Pharma & Biotech.

Lonza Pharma & Biotech provides contract development and manufacturing services that enable pharma and biotech companies to bring medicines to patients in need. From the

building blocks of life to the final drug product, Lonza's solutions are created to simplify the customer's outsourcing experience and provide a reliable outcome at the expected time. Lonza's extensive track record includes commercialization of pioneering therapies and manufacturing of a wide variety of biological and chemical drugs. Lonza continuously invests to solve not just the current, but also the future challenges. Together with its customers, Lonza can bring medicines to life. Further information can be found at [www.pharma.lonza.com](http://www.pharma.lonza.com).

### About Lonza

Lonza is one of the world's leading and most-trusted suppliers to the pharmaceutical, biotech and specialty ingredients markets. As an integrated solutions provider, Lonza is boosting its value creation along and beyond the healthcare continuum with a strong focus on patient healthcare, consumer preventive healthcare and consumer's healthy environment.

Lonza harnesses science and technology to create products that support safer and healthier living and that enhance the overall quality of life. With the recent Capsugel acquisition, Lonza now offers products and services from the custom development and manufacturing of active pharmaceutical ingredients to innovative dosage forms for the pharma and consumer health and nutrition industries.

Benefiting from its regulatory expertise, Lonza is able to transfer its know-how from pharma to hygiene and fast-moving consumer goods all the way to coatings and composites and the preservation and protection of agricultural goods and other natural resources.

Founded in 1897 in the Swiss Alps, Lonza today is a well-respected global company with more than 100 sites and offices and approximately 14,500 full-time employees worldwide. The company generated sales of CHF 5.1 billion in 2017 with a CORE EBITDA of CHF 1.3 billion. Further information can be found at [www.lonza.com](http://www.lonza.com)

### Lonza Contact Information

Lonza Bend  
Sr. Product Development Lead  
Dory Koehler-King  
Tel +1 541 382 4100

Lonza Group Ltd  
Head External Communications  
Constance Ward  
Tel +41 61 316 8840  
[constance.ward@lonza.com](mailto:constance.ward@lonza.com)