



# Target Discovery Starts with Certainty

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# Lyophilized Cas Nuclease

Saving the expensive delivery cost by innovative technology

Cas nucleases play an important role in CRISPR gene editing. However, Cas nucleases are easy to denature, therefore conventional Cas nucleases usually require dry ice transportation, which imposes excessively high costs.

Fortunately, with our innovative lyophilization technology, we are now offering **Lyophilized Cas Nuclease**, which can be transported at room temperature, saving the high cost of dry ice transportation.

## Cas13a Nuclease (Lyophilized)

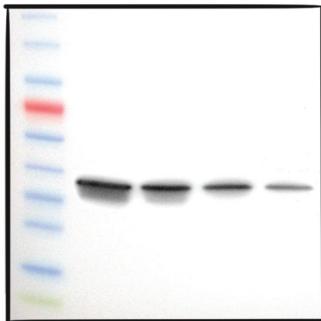
Cas13 is a class II and type VI CRISPR system effector protein with two higher eukaryotes and prokaryotes nucleotide-binding (HEPN) binding domains. It is a novel CRISPR protease that can be used for targeted RNA cleavage. While Cas13 recognizes and cleaves target RNA under the guidance of guide RNA, its collateral cleavage activity is activated, which can efficiently cleave non-specific single-stranded RNA (ssRNA). The lyophilized version of Cas13a can be transported at room temperature, saving the high cost of dry ice transportation.

## Cas12a Nuclease (Lyophilized)

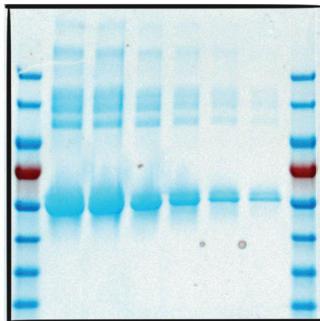
Cas12a (Cpf1) belongs to class II and type VI CRISPR system effector proteins, and is an endonuclease that binds to and cleavages specific sites of target DNA under the guidance of single-stranded guide RNA. It has been widely used in gene editing of microorganisms, plants, and animals, and has a great practical application value in molecular diagnosis. The lyophilized version of Cas12a can be transported at room temperature, saving the high cost of dry ice transportation.

In addition, we are also offering 10+ traditional Cas Nucleases, including Cas9, dCas9, spCas9, SpRYCas9, Cas14a1, Cas12b, etc.

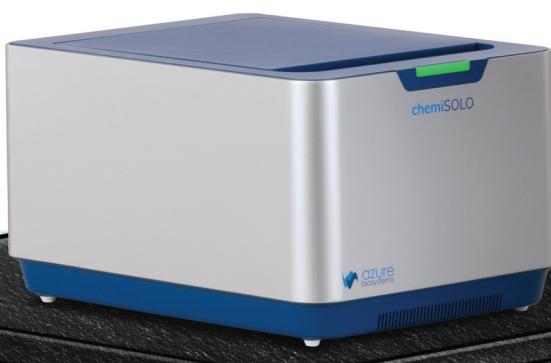
# What if you could take chemiluminescent Western images from your phone?



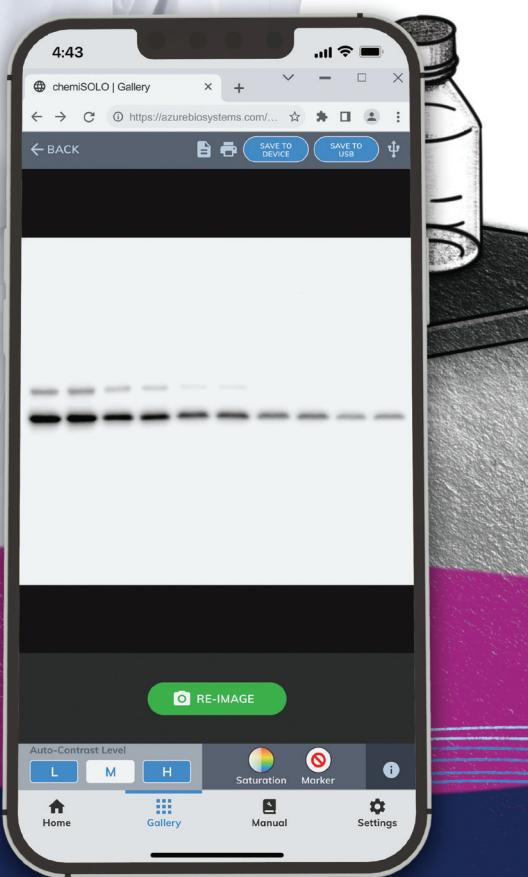
Chemiluminescent Blot  
with Color Marker



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# DNA METHYLATION CONTROLS

## Keep Your DNA Methylation Experiments in Control

### AVAILABLE CONTROLS

- High or Low Methylated DNA
- Methylation Calibration Standards
- Human, Mouse, Rat, Monkey, and Custom-Made Controls



### DNA METHYLATION ANALYSIS

#### Targeted Bisulfite NGS (tNGBS)

- Single base-pair resolution
- Provide  $\beta$ -value methylation results
- High coverage with average  $>500x$  and a minimum 100x

#### Pyrosequencing Methylation Analysis

- Quantitative, accurate, and cost-effective



### DNA METHYLATION ASSAY KITS

#### Line-1 Global Methylation Assay

- Represents  $\sim 17\%$  of the human genome
- Serves as global methylation markers
- Compatible: MS-HRM, tNGBS, and Pyrosequencing

#### Foxp3 Methylation Assay Panels

- Quantify methylation levels in Treg signature genes, including Foxp3, CTLA4, IL2RA (CD25)
- Compatible: MS-HRM, tNGBS, and Pyrosequencing

## GET IN TOUCH

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## 15+ YEARS

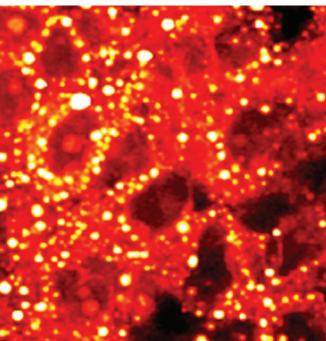
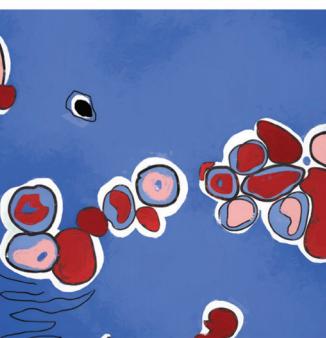
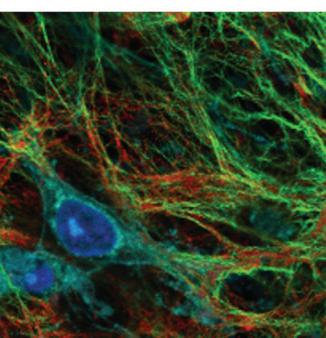
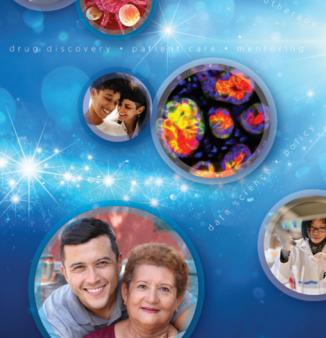
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**AACR** American Association  
for Cancer Research®

# 2022 - 2023 SCIENTIFIC CONFERENCES

Presenting the most significant research on cancer etiology, prevention, diagnosis, and treatment

## San Antonio Breast Cancer Symposium

**December 6-10, 2022 | San Antonio, TX**

Codirectors: Carlos L. Arteaga and  
Virginia G. Kaklamani

## AACR-JCA Joint Conference Breakthroughs in Cancer Research – Translating Knowledge into Practice

**December 10 - 14, 2022 | Maui, HI**

Conference Cochairs: Antoni Ribas and  
Masanori Hatakeyama

## Acute Myeloid Leukemia and Myelodysplastic Syndrome

**January 23-25, 2023 | Austin, TX**

Conference Cochairs: Ravi Majeti, Maria (Ken)  
Figueroa, and Ruben Mesa

## Pediatric Hematologic Malignancies

**February 19 - 22, 2023 | New Orleans, LA**

Conference Cochairs: Terry J. Fry, Mignon  
L. Loh, and Alejandro Gutierrez

## Targeting RAS

**March 5-8, 2023 | Philadelphia, PA**

Conference Cochairs: Mariano Barbacid, Dafna  
Bar-Sagi, Frank McCormick, and Deborah  
K. Morrison

## EACR-AACR Basic and Translational Research Conference: Immune Responses and DNA Repair: Cancer Fields Converging

**March 15 - 17, 2023 | Florence, Italy**

Scientific Program Committee Cochairs: Alberto  
Bardelli, Michael B. Kastan, and Nicola Normanno

## Advances in Prostate Cancer Research

**March 15 - 18, 2023 | Denver, CO**

Conference Cochairs: Cory Abate-Shen, Felix Y.  
Feng, and Scott A. Tomlins

## AACR Annual Meeting 2023

**April 14-19, 2023 | Orlando, FL**

Program Committee Chair: Robert H. Vonderheide

## Advances in Kidney Cancer Research

**June 24 - 27, 2023 | Austin, TX**

Conference Cochairs: Othon Iliopoulos, M. Celeste  
Simon, Cheryl Lyn Walker, and Qing Zhang

## Molecular Biology in Clinical Oncology Workshop

**July 16 - 22, 2023 | San Diego, CA**

Workshop Director: Ross L. Levine  
Workshop Codirectors: Christine M. Lovly, and  
Jean Y. Tang

## Integrative Molecular Epidemiology Workshop

**July 24 - 28, 2023 | Boston, MA**

Workshop Codirectors: Peter Kraft, Lorelei A.  
Mucci, and Elizabeth A. Platz

## The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved

**September 29 - October 2, 2023 | Orlando, FL**

Conference Cochairs: To be announced

*Due to the nature of the COVID-19 pandemic, dates may be subject to change.*

Learn more and register at  
[AACR.org/Calendar](https://AACR.org/Calendar)

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