

# Anticancer Activity of Argiope Bruennichi Spider Venom



## Lead Inventor:

Doç. Dr. Gülay SEZER  
Medical School  
Internal Medicine  
Erciyes University

## Research Interests:

- Medicine
- Health Sciences
- Internal Medicine
- Pharmacology and Clinical Pharmacology
- Life Sciences
- Molecular biology and genetics
- Cancer Molecular Biology
- Neurobiology

## İletişim:

Erciyes Teknoloji Transfer Ofisi  
iletisim@erciyesteknopark.com  
+90 352 224 81 12



ERU BBF2020/007

## Field of the Invention

This invention relates to the use of spider venom (venom) for anticancer activity, especially of the Wasp Spider (*Argiope bruennichi*).

## Abstract

Breast cancer is a type of cancer that is generally seen in women in our country. The present invention relates to the use of *Argiope bruennichi* spider venom for the treatment of breast cancer cell line. The use of venom obtained from *Argiope bruennichi* spiders of the Araneidae family, especially in the Eastern Black Sea Region in Turkey, for cancer treatment due to its toxic effect on the human triple negative breast cancer cell line (MDA-MB-231). It is seen in our laboratory studies that venom belonging to *Argiope bruennichi* spider is effective in breast cancer cell line.



## Advantages

- Use in the treatment of breast cancer
- Being an alternative medicine to other breast cancer drugs

## Usage Area

- Pharmaceutical industry
- Medicine
- Pharmacies
- Hospitals

## Stage of Development

TRL 2: Potential Application Validated

Patent Status Pending