



## Inbred Carrot Lines May Resist Root-Knot Pest

**WARF: P120304US01**

Inventors: Irwin Goldman

**The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in carrot varieties having potential resistance to Northern root-knot nematode.**

### Overview

According to the USDA, Wisconsin farmers produced 73,610 tons of carrots in 2010. Unfortunately, carrot is highly susceptible to attack by the root-knot nematode (*Meloidogyne hapla* Chitwood), a pest that can severely reduce yields.

### The Invention

UW–Madison researchers have developed inbred carrot lines that exhibit some resistance to Northern root-knot nematode. The two lines are [W261 x (Rotin x W259)] and [W77 x (Rotin x W259)]. The lines were identified via greenhouse screening tests in the presence of nematode infection. Genetic crosses indicated that resistance is conditioned by two different homozygous recessive genes.

### Applications

- Genetic testing related to root-knot nematode resistance
- Potentially breeding a new commercial carrot line

### Key Benefits

- Carrots show some resistance to Northern root-knot nematode.

### Additional Information

#### For More Information About the Inventors

- [Irwin Goldman](#)

#### Related Technologies

- [WARF reference number P01015US describes inbred carrot lines with superior resistance to aster yellows disease.](#)

#### Publications

- Wang M. and Goldman I.L. 1996. Resistance to Root-Knot Nematode (*Meloidogyne hapla* Chitwood) in Carrot is Controlled by Two Recessive Genes. J. Hered. 37, 119-123.

#### Tech Fields

- [Animals, Agriculture & Food : Plant varieties](#)

We use cookies on this site to enhance your experience and improve our marketing efforts. By continuing to browse without changing your browser settings to block or delete cookies, you agree to the storing of cookies and related technologies on your device. [See our privacy policy.](#)

OK



**WARF**  
Wisconsin Alumni Research Foundation

| [info@warf.org](mailto:info@warf.org) | 608.960.9850

We use cookies on this site to enhance your experience and improve our marketing efforts. By continuing to browse without changing your browser settings to block or delete cookies, you agree to the storing of cookies and related technologies on your device. [See our privacy policy.](#)

OK



**WARF**  
Wisconsin Alumni Research Foundation

| [info@warf.org](mailto:info@warf.org) | 608.960.9850