

# Biotech firm's cancer drug gets grant

Associated Press

WEST LAFAYETTE — An Indiana biotechnology company has won \$200,000 in federal funding to boost its technology that could help more quickly determine which drugs may help cancer patients.

The National Cancer Institute awarded West Lafayette-based KinaSense the grant to refine technology that's based on Purdue University intellectual property.

KinaSense co-founder Steve Ouellette says the grant will help the company begin laboratory operations and is a validation of its vision and technology.

He calls the federal funding a major milestone toward realizing the start-up company's "mission to help save lives in the battle against cancer."

KinaSense's technology could help researchers and oncologists.

## Forecast today



74  
48

Warmer with some sun; a strong t-storm at night

## Sun and moon

Sunset today ..... 7:53 p.m.  
Sunrise Wed. .... 7:55 a.m.  
Sunset Wed. .... 7:54 p.m.  
Moonrise today .... 12:52 p.m.  
Moonset today .... 2:30 a.m.  
Moonrise Wed. .... 1:46 p.m.

## Pollen

Yesterday's air in Bloomington  
Grass ..... Absent  
Trees ..... Absent  
Weeds ..... Absent  
Mold ..... Low

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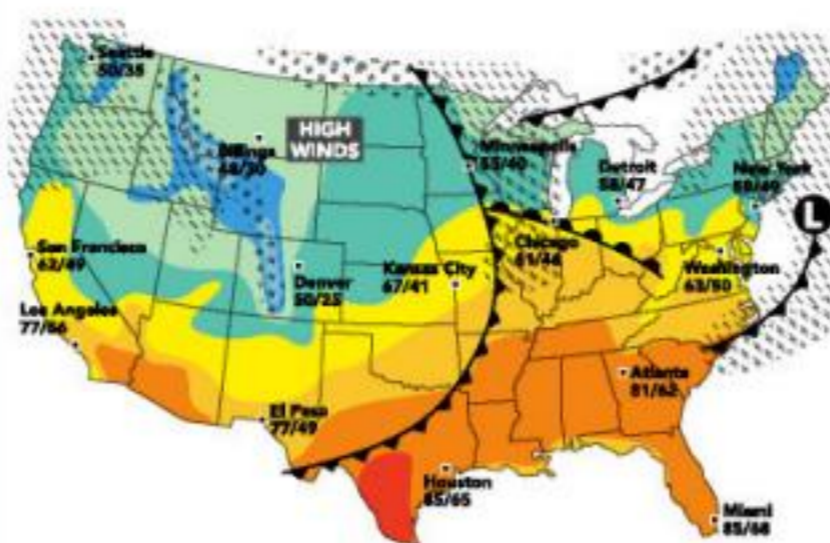
## Area forecast

City	High	Low	W
Chicago	61	46	t
Evansville	76	50	pc
Fort Wayne	65	48	pc
Indianapolis	71	49	pc
Louisville	75	53	pc
South Bend	64	46	pc
Terre Haute	74	48	c

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## National outlook

Shown are noon positions of weather systems and precipitation. Temperature bands are highs for the day.



AccuWeather.com

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Legend for City Lists: s-sunny, pc-partly cloudy, c-cloudy, sh-showers, t-thunderstorms, r-rain, sf-snow flurries, sn-snow, i-ice, W-weather

## Almanac

Data for Bloomington from the Indiana University Physical Plant and the Monroe County Airport.

### YESTERDAY

High/low temps (24 hours ending 7:30 p.m.).....65/58  
Rel. humidity (24 hours ending 7:30 p.m.).....85%/68%  
Precipitation (24 hours ending 7 a.m.).....0.11 inches  
Barometric pressure (7:30 p.m.).....29.70 inches  
Wind direction (7:30 p.m.).....west  
Wind velocity (7:30 p.m.).....10 mph  
Conditions (7:30 p.m.) mostly cloudy, vis. 10 miles, dew point 55.

## Wednesday

63  
41  
Partly sunny and cooler

## Thursday

59  
36  
Rather cloudy and breezy

## Friday

53  
35  
Clouds and intervals of sunshine

## Saturday

50  
32  
Considerable cloudiness with a little rain

## Around the nation today

City	H	L	W	City	H	L	W	City	H	L	W
Albany	53	40	c	Detroit	58	47	pc	Omaha	62	37	t
Albuquerque	66	37	s	El Paso	77	49	s	Orlando	88	61	pc
Anchorage	37	30	c	Fairbanks	18	10	sf	Philadelphia	63	47	pc
Atlanta	81	62	s	Flagstaff	59	23	s	Phoenix	84	58	s
Atlantic City	63	43	pc	Grand Rapids	62	46	pc	Peoria	71	44	t
Baltimore	62	46	r	Hartford	52	41	r	Pittsburgh	65	50	sh
Billings	48	30	c	Helena	42	25	sn	Portland, ME	44	38	r
Birmingham	82	60	s	Honolulu	83	70	pc	Portland, OR	50	39	sh
Boston	49	42	r	Houston	85	65	pc	Richmond	68	51	pc
Brownsville	86	70	pc	Jackson, MS	84	58	pc	Sacramento	65	42	pc
Burlington, VT	50	37	c	Jacksonville	87	60	s	St. Louis	78	49	c
Casper	43	19	c	Kansas City	67	41	c	Salt Lake City	47	34	sh
Charleston, SC	85	62	s	Las Vegas	72	52	s	San Diego	69	56	s
Charleston, WV	70	53	pc	Little Rock	82	47	pc	San Francisco	62	49	pc
Charlotte	79	59	s	Los Angeles	77	56	s	St. Ste. Marie	51	36	pc
Cincinnati	70	52	pc	Memphis	80	50	pc	Seattle	50	35	sh
Cleveland	56	48	pc	Miami Beach	85	68	s	South Bend	64	46	pc
Columbia, SC	81	60	s	Milwaukee	48	42	t	Tampa	81	66	pc
Columbus	65	52	pc	Minneapolis	55	40	r	Tucson	82	52	s
Dallas	82	56	s	Nashville	81	54	s	Tulsa	74	40	s
Dayton	67	51	pc	New Orleans	83	68	pc	Wash. DC	63	50	r
Denver	50	25	s	New York City	58	49	c	Wichita	66	36	s

## Around the world today

City	H	L	W	City	H	L	W	City	H	L	W
Amsterdam	49	33	pc	Havana	89	65	s	Paris	53	36	pc
Athens	55	46	pc	Heilbronn	39	35	pc	Prague	39	29	sn
Baghdad	76	56	s	Hong Kong	65	61	pc	Reykjavik	44	41	r
Bangkok	96	80	s	Istanbul	48	41	pc	Rio	84	73	c
Barcelona	85	78	pc	Jerusalem	56	45	pc	Riyadh	87	66	pc
Beijing	59	32	pc	Kabul	57	38	pc	Rome	58	43	sh
Beirut	63	56	sh	Kiev	38	26	pc	Santiago	88	56	s
Belgrade	47	36	pc	Kuwait	81	57	pc	Sao Paulo	77	65	t
Berlin	42	31	pc	Lima	83	72	pc	Seoul	49	34	pc
Bermuda	69	65	r	Lisbon	60	47	pc	Singapore	30	76	t
Brisbane	85	69	s	London	52	41	c	Stockholm	45	37	c
Brussels	47	33	c	Madrid	60	32	pc	Sydney	79	67	t
Budapest	40	35	r	Manila	90	78	pc	Taipei	62	59	c
Buenos Aires	85	64	pc	Mexico City	81	51	s	Tel Aviv	66	58	sh
Calgary	44	27	c	Montreal	44	36	r	Tokyo	52	38	s
Caracas	79	69	pc	Moscow	32	21	pc	Toronto	53	42	pc
Copenhagen	45	32	c	Nairobi	85	58	s	Vancouver	50	36	c
Dublin	50	43	pc	Nassau	84	69	s	Vienna	42	33	r
Harare	79	61	pc	Nicosia	65	45	sh	Warsaw	40	26	pc
				Oslo	48	31	pc	Zurich	44	31	r

# Still-young Patoka River wildlife refuge comes into its own

Associated Press

OAKLAND CITY — Thousands of migrating ducks, geese and swans stop in the Patoka River valley along their way north every February and March.

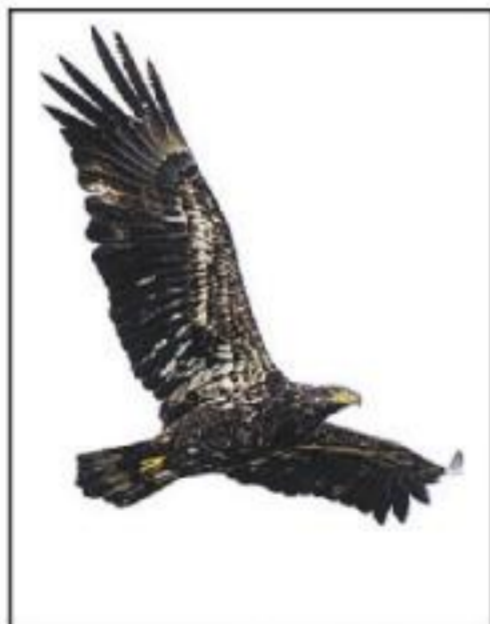
The birds find temporary lodging in Patoka River National Wildlife Refuge and Management Area and other nearby southwestern Indiana wetlands as they wait for their northern destinations to warm.

While the refuge is both home and sanctuary to hundreds of wildlife species, appreciation for it has been slow in growing among southern Indiana residents.

But more and more, people other than hunters and fishers are discovering what the refuge has to offer.

"People are really just starting to find us. We are getting more and more birders and hikers now," said Bill McCoy, refuge manager.

A nonprofit volunteer support



DENNY SIMMONS | ASSOCIATED PRESS

An immature bald eagle casually cruises above Old Ben Station at the Patoka River National Wildlife Refuge in February.

group — Friends of the Patoka River National Wildlife Refuge — has been instrumental in spreading the word.

"It's becoming a more well-known place to see some interesting birds," said David Howell,

president of the group. "It's a place where you can walk and enjoy nature and see some interesting things."

McCoy said the historical aspects within the refuge boundaries also are beginning to draw attention, such as the Wabash & Erie Canal, its connection to the Underground Railroad and the many old cemeteries tucked away from early Indiana settlements.

The refuge's boundaries encompass 30 miles of Patoka River, three miles of the South Fork Patoka River and 19 miles of old oxbows cut from the river's flow.

However, the diversity of habitat within the refuge area is much broader than just wetlands. It includes what is considered one of Indiana's best remaining bottomland hardwood forest habitats as well as upland habitat such as grasslands.

That's not surprising since the boundaries of its acquisition area stretch across Gibson and Pike counties, two time zones

and encompass a diverse array of wildlife habitats and lands.

Preserving and restoring those habitats is the core of the Patoka refuge's reason for being.

"The goal is to have a forested corridor along the river. We're restoring the natural habitat," McCoy said.

The goal, he said, is to reforest 5,000 acres in the refuge area — mostly bottomland that was once cleared for farming. Already, more than 1,000 acres have been replanted with a mix of trees found in bottomland areas, such as oak, hickory, gum, persimmon, pecan and even some cypress, McCoy said.

The refuge also has been at work restoring grassland habitat on the former Columbia Mine — more than 1,000 acres located in the heart of the refuge between the Patoka River and South Fork.

"Lack of grassland habitat is a serious problem for grasslands nesting birds," McCoy said.

When Peabody Coal stopped mining at the site in 2002 and

reclaimed it, the site's lush mix of prairie grasses and oaks was a nesting paradise for Northern Harrier hawks and short-eared owls, McCoy said.

However, by the time the site was acquired as a nature preserve by the Bloomington-based Sycamore Land Trust in 2012, there had been 10 years for foreign invasive plants to overtake the property.

Although reclamation of the Columbia Mine land prairie is ongoing, McCoy said he already is seeing some indications of success, gauged by the return of Henslow's sparrows to the area — birds that will not nest in an area if there are not at least 250 acres of grasslands.

After purchasing the Columbia Mine tract, the Sycamore Land Trust entered into a conservation easement arrangement allowing the Patoka refuge to manage it.

Last month, the trust purchased another 108-acre land tract for the Patoka refuge.