The doctors are in – almost



Dr. Sarah Gabel, family practitioner, and Dr. Kelly Gabel, general surgeon, toured the new clinic area with Scott Focke, Family Center for Health Care clinic manager, when they visited Colby over the Memorial Day weekend. Construction of the offices and exam rooms is expected to be completed in August; the doctors will begin their practices in Colby in September.

Law changed for farmers' markets in Kansas

will have access to more marketing and promotion opportunities and receive other benefits provid-Promotion Act, SB 120, which was signed into law by Gov. Sam

The bill designates the Secretary of Agriculture as the registration authority for farmers' markets, establishes a central registration of the markets and limits the legal liability of registered farmers' markets. There

registration. However, registered enable KDA to apply for federal farmers' markets will have access grants and other resources on beto marketing, outreach and advo- half of Kansas farmers' markets cacy efforts through the From the for promotional and marketing aced through the Farmers' Markets Land of Kansas state agricultural tivities," Secretary of Agriculture trademark program, the ability to Dale Rodman said. receive benefits from federal grant dollars that are awarded to the ber of farmers' markets in Kansas Kansas Department of Agriculture increased from 26 to 118. As we on behalf of Kansas farmers' mar-see this segment of agriculture

portant role in agricultural advo- Act will enable KDA to partner cacy and rural economic growth. with the markets and help them be Establishing a central registration more successful." will be no fee associated with the of farmers' markets in Kansas will

"From 1987 to 2012, the numkets and legal liability protection. continue to grow in the future, "Farmers' markets play an im- the Farmers' Market Promotion

Genome now mapped for wheat's ancestor plant

out a map – especially into the pathology at K-State. "The wheat roadmap for the mapping of genes deep and complex world of genetics. Now, Kansas State University researcher Bikram Gill and an international team of researchers have developed a physical map of wheat's wild ancestor, Aegilops tauschii, commonly called goatgrass, as they take a huge step toward sequencing the wheat genome – a complete look at wheat's genetic matter.

shows the physical locations of genes and other DNA sequences of interest. Scientists use them to identify and isolate genes that are responsible for different traits, such as disease resistance and days to maturity.

the April 22 edition of the *Proceed*full.pdf+html.

assembling it back into a whole Hessian fly in the eastern U.S." egg," said Gill, who is a universi-

chromosome DNA is cloned in that make wheat resistant to disfingerprinted on sequencing machines and pseudochromosomal molecules are reassembled using powerful computers and algorithms."

"Wheat has the largest genome among crop plants and this is the biggest map as yet assembled for A physical map of a genome any organism, animal or plant," Gill said.

The work, which began 10 years ago, was supported by the U.S. National Science Foundation. K-State's portion of the \$10 million funding totaled \$2 million. "Many years ago we discovered

The research was published in that a particular wheat ancestor of dollars to the U.S. and Kansas. - Aegilops tauschii, commonly ings of the National Academy of called goatgrass - is a gold mine Sciences, www.pnas.org/content/ for wheat improvement," Gill early/2013/04/18/1219082110. said. "Wheat varieties grown in the Great Plains are protected "Making a physical map is from the leaf rust disease by genes akin to breaking an egg and then extracted from goatgrass and from

The physical map developed

It's hard to go anywhere with- ty distinguished professor of plant by the research team provides a bacteria, millions of bits of DNA, eases, heat and drought and result which are sorted by robots and in quality bread, Gill said, adding, "Most resistance genes seem to lie at the ends of chromosomes and can be easily accessed, leading to breeding of more productive and sustainable wheat varieties."

The next step in the process. Gill said, is to obtain money to sequence the wheat genome, but added, "it's tough, in the tight budgetary situation we are in."

long term and we need to keep at it slowly and surely and not by 'stops and starts," Gill said. "We need to invest in research."

"Research is expensive and

At stake is a crop worth billions

The dollar value of U.S. wheat production over the last six years (2007-2012) averaged \$14.2 billion per year, according to U.S. Department of Agriculture data. In Kansas, the average dollar value per year over the same period was \$2.101 billion.

Man to swim with bricks in tow

ALGONAC, Mich. (AP) - A long-distance swimmer plans to swim 22 miles across Lake St. Clair this summer while hauling dinghies filled with 2,000 pounds of bricks.

Jim Dreyer has made direct crossings of each of the five Great Lakes. He's scheduled to begin his swim on Aug. 5 from the Clinton River Boat Club near Algonac, and the event is to raise funds and awareness for Habitat for Humanity.

The swim is expected to take 30 hours and end Aug. 6 at Detroit's Belle Isle.

Dreyer tells The Grand Rapids Press (bit. ly/18pXdG5) that this effort will be one of his most challenging.

He's partnered with Habitat for Humanity of Michigan to help fund building projects for up to 75 affiliates through the Cornerstone Strength Swim Campaign.

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