

Birth Of Cloned Calf Announced

DeFOREST, Wis. — ABS Global Inc. (ABS), a world provider of bovine reproductive services and technologies, recently introduced a healthy, 6-month-old bull calf named "Gene" produced from its proprietary cloning technology.

ABS also announced the formation of Infigen Inc., to commercialize applications of cloning technologies in the cattle breeding, pharmaceutical, nutraceutical and xenotransplantation fields.

Infigen's scientific breakthrough advances the prospects for commercializing cattle-cloning technologies. The technology provides an unlimited source of genetic material to cost-effectively produce large numbers of cloned cattle. Infigen believes its cloning process is significantly

more efficient than other processes previously announced and that it has substantial commercial applications.

"We can make an unlimited number of cells, freeze them for any amount of time, then thaw them and make identical animals possessing a desired trait," explained Dr. Michael D. Bishop, vice president of research for Infigen. "Cells from cattle containing unique, favorable traits can be stored indefinitely, essentially preserving them for the future."

ABS has been developing its cattle cloning technology for more than 10 years and has an accomplished research group with expertise in cloning and related cellular science applications.

"The birth of 'Gene' and the creation of Infigen enables ABS to

transform its considerable long-term research efforts into a commercial enterprise," said Marc van't Noordende, chief executive officer of ABS. "Cloning and the related technologies of Infigen offer tremendous promise for enhancing the quality, consistency and nutritional value of dairy and beef products, and have promising applications for the transgenic production of pharmaceutical, nutraceutical and xenotransplantation products."

Infigen will collaborate with ABS to enhance the profitability of dairy and beef producers by combining the advantages of cloning with existing services, such as artificial insemination, DNA Marker-Assisted-Selection and *in vitro* fertilization.

In the health and nutrition

fields, Infigen intends to form relationships with other organizations to capitalize on the dairy cow's ability to produce milk protein in significantly larger volumes than smaller animals, such as sheep and goats.

In pharmaceutical applications, for example, recombinant proteins will be produced transgenically by inserting into the genetic material of an animal a foreign gene that directs the production of a desired protein in the milk of a lactating cow. With Infigen's proprietary technology, that transgenic animal will be cloned to produce herds of cows with the ability to produce large quantities of the transgenic product.

"Infigen's objective is to be the low-cost producer of valuable transgenic products by most

efficiently cloning the most effective milk-producing animal — the cow," said Dale Schwartz, chief executive officer of Infigen. "We are actively seeking strategic partners to collaborate with to achieve our goals."

Marketing in more than 70 countries around the globe, ABS Global has been at the forefront of animal genetics and technology since its founding in 1941. ABS is the leading global source of bovine genetics and related animal care products.



Two-Year-Old Holstein Tops Carroll Dairy Show

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No reserve was named in the Guernsey show, and neither was a best bred and owned.

The grand champion Jersey female was the senior champion 1st place 4 year old Valley Terr Hermitage Fresca, shown by Ashley Burdette of Mt. Airy. Fresca also won the production award for high protein breed 4 year olds, and was total performance cow for the protein breeds.

Ashley also showed the reserve grand champion female and reserve senior champion Jersey cow, her 1st place junior 3 year old Ash-B-Bear Bee Marcy.

Best bred and owned Jersey and the winner of the production award for 3 year old protein breeds was Wilkin Judge Gretchen Gale shown by Dan Null of Taneytown.

Grand champion female of the Milking Shorthorn show was awarded to the junior champion Milking Shorthorn heifer Whispering Breeze Fig Mandy shown by Adam Brower of Taneytown.

No reserve champion or best bred and owned Milking Shorthorn was named.

Ryan Haines was named outstanding junior dairy exhibitor, and Josh Sanders of Littlestown, Pa. was selected outstanding senior dairy exhibitor.

Complete results of the show are as follows:

Fitting and Showing
Champion fitting and showing and champion showman: Brett Haines.
Reserve champion: Joshua Saunders.
First year exhibitor: 1. Derek Savage; 2. Jordan Leppo; 3. Jared Thomas.
8-9 year old: 1. Jenae Rinehart; 2. Danielle Garst; 3. Jonathan Sanders.
10-11 year old: 1. Danielle Hess; 2. Ryan Haines; 3. C. Brandon Derr.
12-13 year old: 1. Jarrod Burall; 2. David Miller; 3. Bryan McGee.
14-15 year old: 1. Brett Haines; 2. Joshua Sanders; 3. M. Dustin Derr.
16 year old and over: 1. Paul Albaugh III; 2. Kristine Myers; 3. Amy Miller.
Outstanding junior dairy exhibitor: Ryan Haines.
Outstanding senior dairy exhibitor: Joshua Sanders.

Holsteins
Champion heifer: Kelly Myers.
Reserve champion heifer: Davis Schwartzbeck.
Grand champion female: Jeff Sutton.
Reserve grand champion female: Ryan Haines.
Champion cow: Jeff Sutton.
Reserve champion cow: Ryan Haines.
Bred and owned: Kelly Myers.
Dam and daughter: 1. Ryan Haines; Kelly Myers; 3. Justin Watt.
Brown Swiss
Champion heifer: Erin Burall.
Reserve champion heifer: Erin Burall.
Grand champion female: Jarrod Burall.
Reserve grand champion female: Ross Bell.
Champion cow: Jarrod Burall.
Reserve champion cow: Ross Bell.
Bred and owned: Ross Bell.
Dam and daughter: 1. Jarrod Burall; 2. Ross Bell.

Guernsey
Champion heifer: none.
Reserve champion heifer: none.
Grand champion female: Wyatt Hall.
Reserve grand champion female: none.
Champion cow: Wyatt Hall.
Reserve champion cow: none.
Bred and owned: none.
Dam and daughter: none.
Jersey
Champion heifer: Erin Burall.
Reserve champion heifer: Ashley Burdette.
Grand champion female: Ashley Burdette.
Reserve grand champion female: Ashley Burdette.
Champion cow: Ashley Burdette.
Reserve champion cow: Ashley Burdette.
Bred and owned: Dan Null.
Dam and daughter: 1. Ashley Burdette.
Milking Shorthorn
Champion heifer: Adam Brower.
Reserve champion heifer: none.
Grand champion female: Adam Brower.
Reserve grand champion female: none.
Champion cow: none.
Reserve champion cow: none.
Bred and owned: none.
Dam and daughter: none.
Supreme champion: Jeff Sutton.
Supreme champion dam and daughter: Ryan Haines.

Demo Derby



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