



## Treating arthritis through new technology

Arthritis is a crippling degenerative disease that has affected humans and horses through the millennia. It has spawned numerous treatment strategies, from aspirin, cortisone, and herbals, to shock-wave and ice therapy ... yet, it has remained a persistent cause of chronic, crippling pain. Only in recent years has an exciting new therapy been developed, that harnesses the healing power of nature and gives hope that the effects of arthritis can and will be conquered.

The most common type of arthritis, osteoarthritis, can be a result of age, injury, or stress, and occurs as cartilage—the cushioning tissue surrounding the joints—begins to break down and nearby ligaments become inflamed.

MediVet, a global animal health care company with American headquarters in Nicholasville, Kentucky, has for the past year provided veterinarians with a regenerative treatment option using blood-derived autologous conditioned serum (ACS).

White blood cells yield a protein called Interleukin-1 (IL-1), which plays a key role in the body's immune system and is responsible for producing the inflammation response at injury and degradation sites. These same cells also generate a counter-balancing "receptor antagonist protein" that is capable of blockading the often destructive cascade of chemical events ignited by IL-1. The idea behind ACS therapy is to manually separate the two yin and yang proteins and to use one to block the negative effects of the other.

The ACS process begins when a veterinarian collects 500 cubic centimeters (cc) of a patient's blood. The sample is delivered or sent to the Nicholasville lab in a cooler provided by MediVet free of charge. At the lab, the pro- and anti-inflammatory proteins are separated. From the latter, an antibody-rich serum is created and then activated under MediVet's low-level light system. Finally, the processed serum is placed in multiple single-dose syringes and returned to the veterinarian within 24 to 72 hours. Treatment itself is done by injection directly into the affected joint area, where the activated antagonist proteins immediately go to work inhibiting inflammation, alleviating pain, and protecting cartilage.

ACS contains the body's naturally occurring anti-inflammatory agent and no foreign compounds. Being a drug-free product, it is not banned by any equine organization in the world. This makes it ideal in treating sport horses and racehorses, whose arthritic symptoms generally stem from the stress and concussion of work combined with the natural aging process.

Results from worldwide clinical trials have repeatedly shown ACS to be a safe, effective, autologous treatment for early arthritis as well as other inflammatory joint ailments such as synovitis and capsulitis. Quality of life is improved and in many cases, equine athletes can be successfully returned to competition.



World's Largest Animal Stem Cell Company  
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### THOROUGHBRED TIMES TODAY JOCKEY OF THE WEEK®

## Julien Leparoux

Julien Leparoux won two of the three graded stakes on the September 18 card at Woodbine to lead all North American jockeys by purse earnings for the week ended September 20.



**LEPAROUX**  
Michael Burns/WEG photo

Leparoux, 28, won the Canadian Stakes (Can-G2) aboard Never Retreat and then turned in a splendidly timed ride aboard Turallure in the Ricoh Woodbine Mile Stakes (Can-G1).

Turallure entered the stretch in eighth position, but Leparoux patiently waited for a clearing along the rail and guided the four-year-old colt to victory.

"Congratulations to Julien Leparoux," winning trainer Charles Lopresti said. "That was a heckuva ride. I didn't think he was going to get through at the top of the lane, but when he got out, he came running."

Leparoux currently ranks sixth among all riders through Tuesday by purse earnings for the year with \$9,694,261.

He is a member of one of racing's most exclusive clubs after winning the Eclipse Award as outstanding apprentice jockey in 2006 and as outstanding jockey in 2009. Only Racing Hall of Fame members Steve Cauthen, Kent Desormeaux, and Chris McCarron have also completed that Eclipse Award double.

#### North American leading jockey by earnings (September 14 through September 20)

Jockey	Strs	Wnrs	Earnings	Leading Earner
Julien R. Leparoux	7	2	\$858,344	Turallure (\$613,380)
Patrick Husbands	27	6	408,805	Simnard (\$102,230)
Luis Contreras	31	6	390,606	Northern Passion (\$153,345)
Javier Castellano	25	6	351,699	Winter Memories (\$150,000)
Julian Pimentel	19	8	342,820	Strike the Moon (\$230,400)
Jamie P. Spencer	2	1	316,913	Wigmore Hall (Ire) (\$306,690)
John R. Velazquez	21	6	311,758	Finale (\$153,345)
Justin Stein	18	5	286,442	Stormy Lord (\$150,000)
Ramon A. Dominguez	32	4	265,424	Unbridled Humor (\$60,000)
Kendrick Carmouche	25	8	252,805	Overbid (\$32,400)