New DNA Test for MPS VI in Miniature Pinscher
Affected animals may also have corneal cloudi- 

cells. This leads to deformities of limbs, 
molecules and parts of the molecules accumu- 
cells' ability to break down large sugar 
thought. Diseases in the MPS group inhibit the 
spread and under-diagnosed than previously 
abroad, making this appear to be more wide- 
inner leg dysplasia (LCP) disease in 
minute pinschers and other breeds is related to 
MPS VI. LCP, a devastating hip disease, is 
characterized by necrosis of the femur head. 
The cause remains unknown. LCP differs from 
hip dysplasia and MPS VI, but similar bone 
changes are observed in miniature pinschers 
with MPS VI. Penn's researchers want to deter- 
mine if there is an association between MPS 
and LCP disease in this and other breeds with 
LCP disease. This study is done by Lisa 
Berman, senior biology student at Penn, and 
is also funded by the AKC Canine Health 
Foundation.

Dr. Giger and his colleagues are requesting 
that breeders, owners, and veterinarians who 
suspect either condition in a miniature 
pinscher contact the laboratory. For a limited 
time the first 100 samples will accepted free of 
charge. Test results will be kept confidential and 
information about individual animals will only 
be reported to the owner. For further 
information, please visit the web site at 
<www.vet.upenn.edu/penngen> or contact Dr. 
Giger or Dr. Lisa Sarvas, the current Deubler 
Fellow, at <penngen@mail.vet.upenn.edu> or 
by fax at 215-573-2162.

New DNA Test for MPS VI in Miniature Pinscher

A new DNA-based test for mucopolysac- 
charidosis type VI (MPS VI) to identify affect- 
ed, carrier, and normal miniature pinschers has 
been developed by researchers at the School. 

MPS VI, an inherited lysosomal storage 
disease, has been seen in cats. The miniature 
pinscher is the first dog breed in which it has 
been identified. Affected miniature pinschers 
have been found in various states in the US and 
abroad, making this appear to be more wide- 
spread and under-diagnosed than previously 
thought. Diseases in the MPS group inhibit the 
cells' ability to break down large sugar 
molecules and parts of the molecules accumu- 
late in cells. This leads to deformities of limbs, 
vertebrae, sternum, and particularly, the hips. 
Affected animals may also have corneal cloudi- 
ness and facial malformations.

The test identifies affected, carrier, and 
normal miniature pinschers. Identification of 
carriers is particularly important as they show 
no signs of the disease. By knowing who the 
carriers are, breeders can avoid mating two 
carriers, which could produce affected animals, 
and will assist in eliminating the mutant allele 
altogether from the breed.

The test was developed by Dr. Polly 
Foureman, a Josephine Deubler Fellow in the 
School’s Section of Medical Genetics. The 
DNA-based test requires a blood sample to be 
submitted to the Josephine Deubler Genetic 
Disease Testing Laboratory at Penn. 

Program Scholarship. The Dauphin County 
Resident Scholarships were awarded to Lauren 
May, V'05, and Mary Palopoli, V'06.

Lois F. Fairchild Scholarships in Veterinary 
Public Service were awarded to Ailyn Attila, 
V'04, Alison Loupos, V'05, and Emily Jones, 
V'05. Four members of the Class of ‘04 
received Pennsylvania Veterinary Foundation 
Scholarships: Jill Compton, Josh Eaton, Cailin 
Heinze, and Laura Javiscas. The Westminster 
Kennel Foundation Scholarship was awarded 
to Christa Regan, V'04. Five members of the 
Class of '04 each received a Dr. J. E. Salsbury 
Scholarship: Josh Eaton, Lauren Entes, Carrie 
Horton, Jennifer Kaae and Christa Regan.

University of Pennsylvania Hertzler 

Scholarships were awarded to Timothy Mose- 
bey, V'05, and Michelle Regester, V'06. The 
Union County Kennel Club awarded a scholar- 
ship to Rebecca Taylor, V'05. Josh Eaton, V'04, 
and Kelli Russell, V'04, each received a Ch. 
Forfox Liz Claiborn Scholarship. The Swiss 
Benevolent Society awarded a scholarship to 
Nadine Salome, V’06.

Shirley E. Possinger Dean's Scholarships 
were awarded to the following members of the 
Class of '04: Beth Appleman, Mandy Becker, 
Cailin Heinze, Lisa Lipitz, Adriane Pfeninger, 
and Tara Strawderman; and to the following 
members of the Class of '06: Gordon Peddle, 
Kimberly Russell, Jennifer Stevens, Kristina 
Willoughby, and Daniel Zawisza.

Ann Kroken, V'04, received a Charles F. 
Reid Dean's Scholarship. The Eric Tulleners 
Dean's Scholarship was awarded to Angela 
Davies, V'04. The following members of the 
Class of '04 received Anne Linn White Dean's 
Scholarships: Allison Billings, Kristen Hart, 
Laura Javiscas, Megan Manfredi, and Todd 
Strochlic. Charles S. and Phyllis H. Wolf Dean's 
Scholarships were awarded to the following 
members of the Class of '04: Dora Connelly, 
Rachel Pearson, and Abigail Smith.

Mrs. Jack L. Billhardt Dean's Scholarships 
were awarded to the following members of the 
Class of '04: Michele Koch, Bjorn Lee, Kelli 
Russell, and Arlene Schneiderman.

The following members of the Class of '04 
are the recipients of Dr. M. Josephine Deubler Dean's 
Scholarships: Kara Ballek, Holly Edwards, Oli 
Morgan, Regina Pellegrin, and Erin Wright.

Rebecca Schrader V'04, and Jennifer Seybold, 
V'04, are each a recipient of an Ethel H. Mitchell 
Dean's Scholarship. Bruce J. Heim Dean's Schol- 
arships were awarded to the following members of the 
Class of '04: Ailyn Attila, Stephen Godin, 
and Courtney Maeda. Garret Patchinger, V'05, is 
the recipient of the Jack Mara Dean's Scholar- 
ship. Hill's Pet Product Dean's Scholarships 
were awarded to the following members of the 
Class of '05: Jessica Bertout, Christopher Blum, 
Amanda Bowden, Meghan Brunstedt, Jennifer 
Cohen, Anthony Dallatore, Amy Durham, 
Laurel Frydenborg, Kaira Geithman, Sabrina 
Goscilo, Justin Kontir, Audra Olsen, and Aimee 
Simpson; and to the following members of the 
Class of '06: Anthony Acquaviva, Rachel Choi, 
and Christine Claycomb.

The following members of the Class of '04 
(continued on page 30)