



13th

**International
Havemeyer Foundation
Horse Genome Workshop**



24th to 28th July 2022
Cornell University
Baker Institute for Animal Health
Ithaca, NY, USA



Organizing Committee

Gene Pranzo
Doug Antczak - Chair
Donald Miller
Ernie Bailey - Co-Chair
Jamie MacLeod
Annette McCoy
Gabriella Lindgren
Jessica Petersen

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University of Illinois
Swedish University of Agricultural Sciences
University of Nebraska – Lincoln

Workshop Assistants

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Josephine Marchand
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Cornell University
Utrecht University
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Baker Institute
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Poster and Podium abstracts can be found here:

<https://cornell.box.com/s/wzf2lj4rj5ydzbl9haryupl3iqbgepw>

Password: Havemeyer_10

Full program and abstracts of all platform and poster presentations have been sent by email to all participants.

Workshop Synopsis

DAY	WEEKDAY	JULY	EVENTS
1	Sunday	24	Visitors Arrive / Evening reception with Twilight and her stablemates at the historic McConville Barn 18:00
2	Monday	25	Full day of meetings– Explore Cornell Campus in the evening / Visit the Barbara McClintock Shed
3	Tuesday	26	Full day of meetings – Free evening for Cayuga Lake excursions or dinner in Ithaca
4	Wednesday	27	Meetings until 16:00 Evening social event 18:00
5	Thursday	28	Visitors Depart

Horse Genome Workshop Overview

	Monday 25 July 2022	Tuesday 26 July 2022	Wednesday 27 July 2022
7:45		Bus 1 departs Best Western	Bus 1 departs Best Western
7:55		Bus 2 departs Best Western	Bus 2 departs Best Western
8:00	Bus 1 departs Best Western		
8:15	Bus 2 departs Best Western	Welcome	Welcome
8:30	Welcome	SNP Parentage Study	Research Interest Groups
8:45	Keynote presentations #1 & 2	8:40 - Functional Genomics	#1, 2, 3
9:00		Keynote Speaker #4 Invited Talks	Coffee Break
9:15			
9:30			
9:45		Coffee Break & Posters #3 <i>Sponsored by Neogen</i>	Research Interest Groups
10:00			#4, 5, 6
10:15		Coffee Break & Posters #1 <i>Sponsored by Diagenode</i>	Functional Genomics continued
10:30	Research Interest Groups		
10:45	Equine Industry Speakers	Invited Talks	#7, 8, 9
11:00			Equine Industry Speakers
11:15		Lunch	Presentation of Trainee Awards
11:30			
11:45	Optional - Trainee-Mentor Lunch Meeting	Optional - Bowling-Bernoco Equine Genetics Newshour	
12:00			
12:15	Lunch: <i>Sponsored by Etalon</i>	Lunch	
12:30	Optional - Equine Genetics funding sources discussion	Genetics of Equine Performance and Welfare	Breakout session summaries
12:45			
13:00	Evolution, Domestication and Breed Development of the Horse	Invited Talks	Workshop Summaries Next Strides for Equine Genomics
13:15			
13:30			
13:45	Keynote presentation #3 Invited Talks	ends 15:10	
14:00			
14:15	Tea Break & Posters #4 <i>Sponsored by Twist Bioscience</i>	Precision Medicine Vision Session	Closing remarks
14:30			
14:45	Tea Break & Posters #2	Invited Talks	Bus 1 returns to Best Western
15:00			
15:15	Genomics of Equine Disease	Invited Talks	Bus 2 returns to Best Western
15:30			
15:45	Genomics of Equine Disease	Invited Talks	Free time
16:00			
16:15			
16:30			
16:45			
17:00	Invited Talks		
17:15			
17:30	Close of Day 1 Sessions	Close of Day 2 Sessions	Bus 1 departs to BBQ
17:45			
18:00	Bus 1 returns to Best Western	Bus 1 returns to Best Western	Bus 2 departs to BBQ
18:20			
18:30	Bus 2 returns to Best Western	Bus 2 returns to Best Western	
	Dinner on your own	Dinner on your own	BBQ
	Local Transportation	Meals & Coffe / Tea Breaks	Scientific Reports
	Poster Sessions	Equine Industry Speakers	

*Day 1: Monday 25 July 2022 –
Stocking Hall – Pepsico Auditorium*

Monday Morning, July 25th

- 8:30-8:45** **Welcoming Remarks and Announcements**
Scott Coonrod, Director, Baker Institute of Animal Health
- 8:45-10:00** **Keynote Presentations**
Moderator: Doug Antczak
- 8:45-9:30 Keynote 1: Inference of selection from genome sequences of Arabian Horses – Andy Clark, *Cornell University*
- 9:30-10:15 Keynote 2: Transposable elements as catalysts of mammalian genome evolution – Cedric Feschotte, *Cornell University*
- 10:15-11:15** **Coffee Break and Poster Session 1**
Sponsored by Diagenode
Stocking Hall Atrium
- 11:15-12:15** **Perspectives from the Thoroughbred and Standardbred Racing Industries**
Moderator: Ernie Bailey
- 11:15-11:35 The American Standardbred – Bruce Brinkerhoff, *US Trotting Association*
- 11:35-12:00 “That’s very interesting but what are we looking for?” – Johnny Mac Smith, *DVM, Grayson Jockey Club Research Foundation*
- 12:00-12:15 General Discussion
- 12:15-13:45** **Luncheon**
Sponsored by Etalon
Trainee-Mentor Lunch Meeting (optional)
Equine Genetics funding sources discussion (optional)
Free time for walkabout the Cornell Botanic Gardens and visit the nearby McClintock Hut, a historic shrine for geneticists.

Monday Afternoon, July 25th

13:45-15:30 Topic 1: Evolution, Domestication, and Breed Development of the Horse

Moderator: Gabriella Lindgren

- 13:45-14:30 Keynote 3: Ten years of genomic discoveries in equine evolution and domestication: what next? – Ludovic Orlando, *University of Toulouse*
- 14:30-14:50 MSY haplotype spectra enlighten the legacy of Spanish horses – Lara Radovic, *University of Vienna* *
- 14:50-15:10 Position and transcriptional status of horse centromeric domains in different tissues and individuals from the FAANG equine consortium – Francesca Piras, *University of Pavia* *
- 15:10-15:30 Next Generation Equine Clinical Cytogenetics by Optical Genome Mapping – Terje Raudsepp, *Texas A&M University*

15:30-16:30 Tea Break and Poster Session 2 Stocking Hall Atrium

16:30-18:00 Topic 2: Genomics of Equine Disease

Moderator: Jamie MacLeod

- 16:30-16:50 Aneuploidy and premature acquisition of CNVs are commonly associated with early pregnancy loss in the mare – Amanda de Mestre, *Royal Veterinary College, London*
- 16:50-17:10 miR-214-3p desensitizes equine mammary progenitor cells from undergoing apoptosis in response to the carcinogen DMBA – Rebecca Harman, *Cornell University*
- 17:10-17:30 Development of a Comprehensive Genetic Assay for Recurrent Exertional Rhabdomyolysis (RER) in Racehorses – Kirsten Dimmler, *University of Minnesota* *
- 17:30-17:50 Myofibrillar myopathy is not present in Quarter Horses with type 2 polysaccharide storage myopathy and neither myopathy is associated with genetics variants used in commercial testing – Stephanie Valberg, *Michigan State University*
- 17:50-18:00 Closing Discussion

18:00 Transportation to Hotel Free evening to explore Ithaca and environs

* Trainee

*Day 2: Tuesday 26 July 2022 –
Stocking Hall – Pepsico Auditorium*

Tuesday Morning, July 26th

- 8:15-8:30** **Welcome/Announcements**
- 8:30-8:40** **Update on the SNP Parentage Study**
Rebecca Bellone, *UC Davis*
- 8:40-10:00** **Topic 3: Functional Genomics**
Moderator: Jessica Petersen
- 8:40-9:20 Keynote 4: Conserving equid species: genomics, biobanking, and genetic rescue - Oliver A. Ryder, *San Diego Zoo Wildlife Alliance*
- 9:20-9:40 Using Long-Read Technology to Improve the Transcriptome for the Horse Genome – Sichong Peng, *UC Davis* *
- 9:40-10:00 Improving the functional annotation of the equine genome through tissue-specific co-expression networks analysis – Jonah Cullen, *University of Minnesota* *
- 10:00-10:45** **Coffee Break and Poster Session 3**
Sponsored by Neogen
Stocking Hall Atrium
- 10:45-11:45** **Topic 3: Functional Genomics continued**
- 10:45-11:05 Comparative study on DNA methylation signatures between forelimb bones of Thoroughbreds (FAENG initiative) and the articular cartilage of cold-blood horses – Tomasz Zabek, *National Research Institute for Animal Production, Poland*
- 11:05-11:25 Spatial transcriptomics defines the cell-specific RNA landscape of equine dorsal root ganglia – Carrie Finno, *UC Davis*
- 11:25-11:45 First single-cell gene expression analysis of cryopreserved equine bronchoalveolar cells – Sophie Sage, *University of Bern* *
- 11:45-12:15** **Industry speaker**
Stephanie Church, *Editor in Chief – The Horse*
- 12:15-13:30** **Luncheon**
- 12:30-13:30 *Bowling-Bernoco Equine Genetics Newshour* (optional)
Presented by Annette McCoy & Sofia Mikko
- *Trainee

Tuesday Afternoon, July 26th

13:30-15:45 Topic 4: Genetics of Equine Performance and Welfare

Moderator: Rebecca Bellone

- 13:30-13:50 Using Tissue-Specific Gene Expression to Help Prioritize Candidate Genes Underlying Gait in Standardbred Horses – Annette McCoy, *University of Illinois*
- 13:50-14:10 Genomic variations and gene-doping detection in horses – Teruaki Tozaki, *LRC Japan*
- 14:10-14:30 A point mutation may influence blood pressure regulation in favor of elite racing performance in horses – Gabriella Lindgren, *Swedish University of Agricultural Sciences*
- 14:30-14:50 Genetic mechanisms involved in catastrophic fracture risk in Thoroughbred: A functional single nucleotide polymorphism upstream of collagen type III – Esther Palomino-Lago, *Royal Veterinary College, London **
- 14:50-15:10 Development of a custom sequencing panel to detect embryonic gene editing in Thoroughbred racehorses – Natasha Hamilton, *EGRC, Sydney*

15:10-16:00 Tea Break and Poster Session 4

Sponsored by Twist Bioscience

Stocking Hall Atrium

16:00-18:00 Topic 5: Precision Medicine Vision Session

Moderators: Samantha Brooks & Sofia Mikko

- 16:00-16:20 Application of precision medicine techniques to equine metabolic syndrome in the Pioneer 100 Horse project – Callum Donnelley, *UC Davis **
- 16:20-16:45 Real time motion sensing of equine performance indicators – Scott Palmer, *Equine Medical Director, New York State Gaming Commission*
- 16:45-17:10 Precision Medicine in Humans – Olivier Elemento, *Director of the Englander Institute for Precision Medicine, Weill Cornell Medicine, New York*
- 17:10-18:00 Roundtable Discussion with Stakeholders from Equine Industries

18:00 Closing Discussion of Day 2

Transportation to hotel; free evening to explore Ithaca and environs.

* Trainee

*Day 3: Wednesday 27 July 2022 –
Baker Institute for Animal Health*

8:15-8:30	Welcome/Announcements
8:30-9:30	Research Interest Groups 1, 2, and 3 (See following page for topics)
9:30-9:45	Coffee Break
9:45-10:45	Research Interest Groups 4, 5, and 6 (See following page for topics)
10:45-11:00	Short Break More coffee please!
11:00-12:00	Research Interest Groups 7, 8, and 9 (See following page for topics)
12:00-13:30	Luncheon Presentation of Trainee Awards
13:30-14:15	Summaries of the breakout sessions (5-10 minutes each)
14:15-15:15	Workshop Session Summaries and Discussion of Next Strides for Equine Genomics
15:15-15:30	Closing remarks and end of conference Transportation to hotel
17:45	Transportation to closing social event
18:00-late	BBQ and Barn Dance at Centerline Farm

Research Interest Groups

8:30-9:30

<i>Group</i>	1	2	3
<i>Title</i>	Annotation / FAANG	Single Cell - Spatial Transcriptomics	Gait
<i>Moderator(s)</i>	<i>Jessica Petersen Nicole Kingsley</i>	<i>Peter Schweitzer David McKellar</i>	<i>Annik Gmel Annette McCoy</i>
<i>Location</i>	Thaw Lecture Hall	West Wing 124	Kleberg Barn

9:45-10:45

<i>Group</i>	4	5	6
<i>Title</i>	Phenotyping / Precision Medicine	Musculoskeletal Conditions	Clinical Reproduction
<i>Moderator(s)</i>	<i>Callum Donnelly Brandon Velie</i>	<i>Annette McCoy Michelle Delco</i>	<i>Doug Antczak Mariana Diel de Amorim</i>
<i>Location</i>	Thaw Lecture Hall	West Wing 124	West Wing 224

11:00-12:00

<i>Group</i>	7	8	9
<i>Title</i>	Pangenomes/ Evolution	Bioinformatics	Metabolic Diseases
<i>Moderator(s)</i>	<i>Jessica Petersen Ludovic Orlando</i>	<i>Ted Kalbfleisch Sian Durward-Akhurst</i>	<i>Samantha Brooks Callum Donnelley</i>
<i>Location</i>	Thaw Lecture Hall	West Wing 124	West Wing 224

Poster Session 1: Monday 25th July Morning

#	Presenter	Title
1	Bruno Menarim* <i>University of Kentucky</i>	Implications of metrics, differential gene expression and pipeline structure for functional analysis of transcriptome data.
5	Lucia Borlle* <i>Cornell University</i>	Single cell genomics to understand B lymphopoiesis in healthy and immunodeficient horses
9	Nadine Buys <i>Katholieke Universteit Leuven</i>	Selective sweeps in two Belgian horse populations: the Belgian Draught Horse and the Belgian Warmblood Horse
13	Weronika Klecel* <i>Warsaw University of Life Sciences</i>	Long Short-Term Memory Recurrent Neural Networks – a novel approach to accurate assessment of Arabian horse movement.
17	Edward Ryder <i>Sport and Specialised Analytical Services</i>	Detection of gene doping and genetic manipulation in Thoroughbred horses by long-read sequencing
21	Elouise Bacon* <i>University of Sydney</i>	Melanocortin-1 Receptor variant association with opioid sensitivity
25	Barclay Powell* <i>University of Florida</i>	Preliminary Identification of a Quantitative Trait Locus for Body Size Proportion in the American Quarter Horse
29	Jessica Petersen <i>University of Nebraska - Lincoln</i>	Normalization of ChIP-seq data from the equine FAANG project improves identification of tissue-specific regulatory elements between sexes
33	Kim Fegraeus* <i>Uppsala University</i>	Characterization of the cellular landscape in equine asthma using single-cell transcriptomics
37	Ted Kalbfleisch <i>University of Kentucky</i>	Creation of a public resource to establish the state of genetic variation in North American Thoroughbreds.
41	Barbara Wallner <i>University of Veterinary Medicine Vienna</i>	Y-chromosomal paternal ancestry tracing in horses – current stage and future plans
47	Michael Byron* <i>Cornell University</i>	Profiling of Endometrial miRNA Expression During Endometritis Using Small RNA Sequencing

* Trainee

Poster Session 2: Monday 25th July Afternoon

#	Presenter	Title
2	Jillian Marlowe* <i>University of Minnesota</i>	Validating Best Practices for Whole Genome Sequencing Variant Prioritization Pipeline for Mendelian, Oligogenic, and Polygenic Diseases
6	Anna Karagianni* <i>Roslin Institute</i>	Applying novel multi-omic approaches to investigate the impact of training on airway immunity and molecular pathways underpinning airway inflammation
10	Janeth Ortega <i>Open and Distances Nacional University</i>	Genetic diversity in an isolated creole horse Colombian population using microsatellites
14	Alex Trauner* <i>Montana State University</i>	The effects of maternal overnutrition on testicular development in foals
18	Jillian Maniego* <i>Sport and Specialised Analytical Services</i>	Use of mitochondrial sequencing to detect gene doping in horses via gene editing and somatic cell nuclear transfer
22	Eric Barrey <i>INRAE</i>	Mitochondrial genetic variability in endurance horses
26	Jessica Petersen <i>University of Nebraska – Lincoln</i>	Using genetics to understand and inform breed management – the case of the Clydesdale in Scotland and North America
30	Felipe Avila <i>UC Davis</i>	Investigating the impact of the studbook cap on genetic diversity in trotting Standardbred horses
34	Lien Gysens* <i>Ghent University</i>	Genome-wide nanopore sequencing data unraveling the cross-species transmission of the bovine papillomavirus
38	Tatiana Vinardell <i>Equine Veterinary Medical Center, Qatar</i>	Population genetic structure of the Qatari Arabian Equine population
42	Eleonora Cappelletti* <i>University of Pavia</i>	Neocentromere formation through Robertsonian fusion and centromere repositioning during the evolution of equids
49	Brandon Velie <i>University of Sydney</i>	A Genetic Investigation of Ventricular Septal Defect in Arabian Horses

* Trainee

Poster Session 3: Tuesday 26th July Morning

#	Presenter	Title
3	Ted Kalbfleisch <i>University of Kentucky</i>	Trio Binning Assembly of a Shire x Arabian F1 to Build Genome Resources for Non-Thoroughbred Breeds.
7	Camille Holmes* <i>Cornell University</i>	Transcriptomic profiling of the early mucosal immune response to Equine herpesvirus type 1 (EHV-1) in immune and susceptible horses
11	Michela Ablondi* <i>University of Parma</i>	Haplotype analyses in Swedish Warmblood Horses
15	Amy Holtby* <i>PlusVital</i>	A comparison of phenotypes for assessing stress behaviours in Thoroughbred racehorses
19	Lauren Hughes* <i>University of Minnesota</i>	Investigation of genetic risk alleles of pituitary pars intermedia dysfunction (PPID) in horses
23	Sian Durward-Akhurst <i>University of Minnesota</i>	Statement on variant prioritization for Mendelian and oligogenic disease
27	Molly McCue <i>University of Minnesota</i>	Consortium to develop an equine pangenome
31	Khadijah Muhammad* <i>UC Davis</i>	Identifying the genetic basis for Juvenile Idiopathic Epilepsy in Egyptian Arabian foals
35	Ann Staiger <i>Texas A&M University- Kingsville</i>	Congenital Failure of Passive Transfer in Equines
39	Jakub Cieslak <i>Poznan University of Life Sciences</i>	Analysis of the mtDNA D-loop sequence may support the Polish Primitive Horse (Konik) conservation program
44	Sophie Dhorne-Pollet* <i>INRAE</i>	Transcriptome disorder in equine melanoma by direct RNA long-read sequencing
50	Monika Stefaniuk-Szmukier <i>National Research Institute of Animal Production, Balice</i>	Investigation of the genetic background of foals affected by seizures in Arabian Horses with the use of Whole Genome Sequencing

* Trainee

*Poster Session 4: Tuesday 26th July
Afternoon*

#	Presenter	Title
4	Anna Karagianni* <i>Roslin Institute</i>	A high throughput sequencing approach using the MiSeq platform to sequence MHC I and MHC II allele diversity
8	Kelly Knickelbein* <i>Cornell University</i>	Investigating additional genetic risk loci for ocular squamous cell carcinoma in horses
12	Annik Gmel* <i>Agroscope/University of Zurich</i>	Using high-density SNP data to unravel the origin of the Franches-Montagnes horse breed
16	Madelyn Smythe* <i>University of Florida</i>	Quantifying Locomotor Phenotypes in the Horse with Artificial Intelligence
20	Monika Bugno-Poniewierska <i>University of Agriculture Krakow</i>	Epigenetic analysis of reciprocal translocation 64,Xt(1p:Xp)(1q;Xq) in Hucul mares
24	Navid Yousefi* <i>University of Kentucky</i>	Linkage disequilibrium for MSTN variants in several horse breeds
28	Stephanie Ryan* <i>UC Davis</i>	Investigating the role of a frataxin (FXN) deletion in equine neuroaxonal dystrophy / degenerative myeloencephalopathy (eNAD/EDM) in the Quarter Horse
32	Sharmila Ghosh* <i>UC Davis</i>	Equine Juvenile Degenerative Axonopathy in Quarter Horse Foals
36	Ernie Bailey <i>University of Kentucky</i>	Genetic Basis for Juvenile Onset Lordosis in Saddlebred Horses
40	Kendall Blanchard <i>University of Minnesota</i>	Genetic and Management Factors Affecting Clinical Signs of Muscle Diseases in Horses
46	Nicole Kingsley* <i>UC Davis</i>	Identification of Risk Loci for Insidious Uveitis in Appaloosa Horses and Other LP-spotted Breeds

* Trainee

General Information

Local Contact information

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WIFI on Campus

Free WIFI access for attendees accessible on any part of the Cornell Campus:

NETWORK 1: Cornell-Visitor

NETWORK 2: eduroam

Monday and Tuesday free Evenings

See provided list of local restaurants and cafes.

Local Ithaca Area Travel information

Uber and Lyft are available in the area.

TCAT bus service runs daily, for schedule information please visit

<https://tcatbus.com/bus-schedules> , Google Maps, or the Transit app.

Taxi companies in the area	Phone	Web
Collegetown Cab	+1 607.588.8888	www.collegetowncab.com
Ithaca Taxi Dispatch	+1 607.277.777	

COVID considerations: masks will be provided to all participants. Cornell policy encourages wearing masks in situations favoring virus transmission.

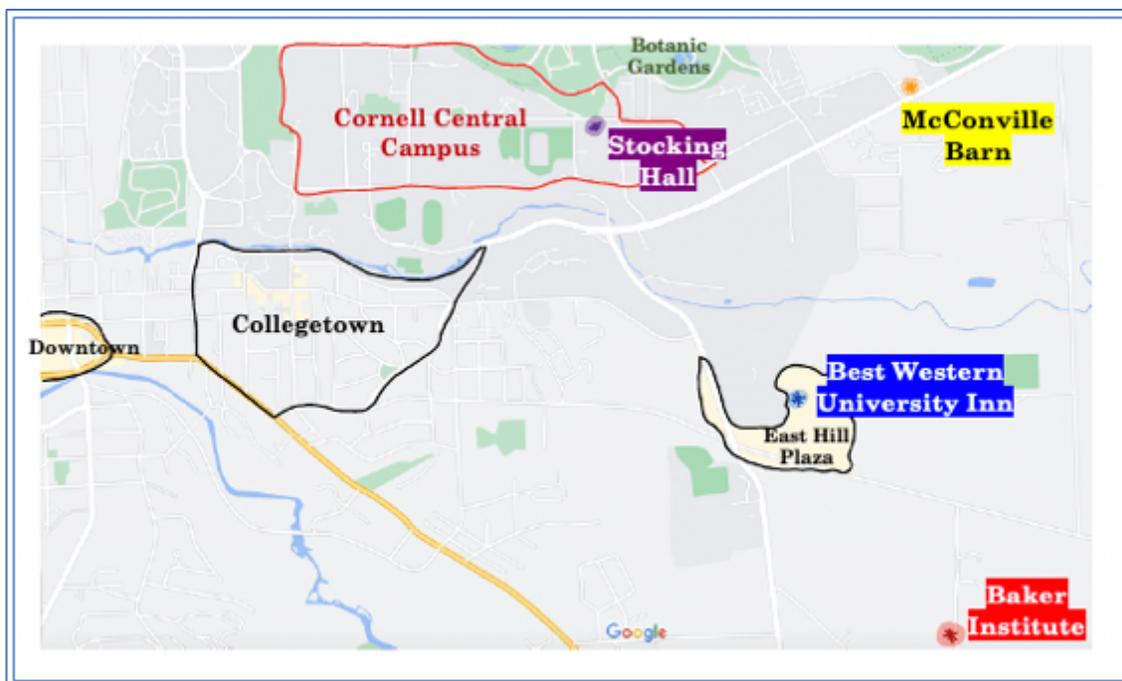
Horse Genome Project Institutional Memory: Photo and Video

We inform you that during the event photos and videos will be taken. We kindly ask those who do not want to be photographed to inform Doug Antczak or Don Miller.

Bus transport to venues, parking, & area maps

A Swartout company bus will transport attendees from the Best Western Hotel to venues and back each day. Schedule is below

Program Component	Day(s)	Location	Bus Departs from Best Western
Best Western University Inn	All	1020 Ellis Hollow Rd, Ithaca (at East Hill Plaza) 607.272.6100	
Opening Reception	Sunday 7/24/22	McConville Barn Rt. 366 at Triticum Drive, Ithaca	Out: 18:00, 18:10 Back: 21:00, 21:10
Workshop Sessions	Mon and Tues 7/25-26/22	Stocking Hall 411 Tower Rd, Ithaca	Out (Mon) 8:00, 8:10 Out (Tues) 7:45, 7:55 Back: 18:20, 18:30
Research Interest Groups	Wed 7/27/22	Baker Institute for Animal Health 235 Hungerford Hill Rd, Ithaca	Out: 7:45, 7:55 Back: 16:00, 16:10
Closing BBQ Social	Wed 7/27/22	Centerline Farm 870 Ringwood Road, Ithaca	Out: 18:00, 18:10 Back: 22:00, 22:25

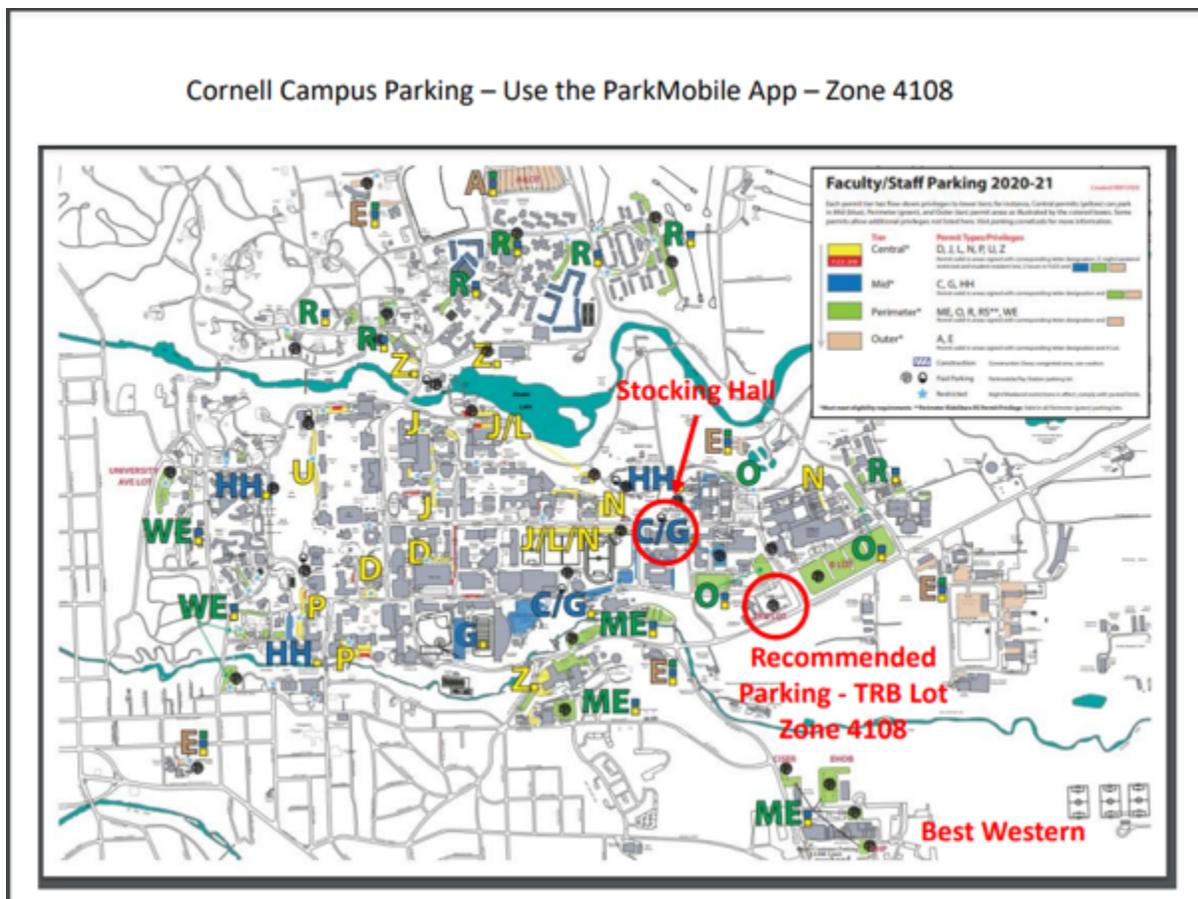


Schematic map of Workshop venues

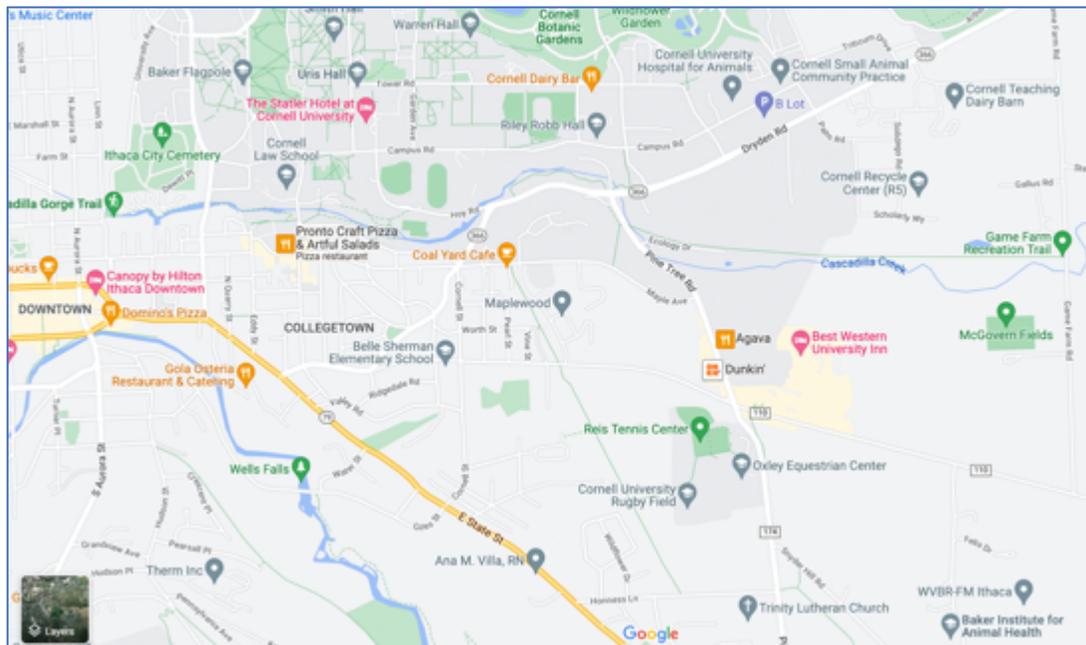
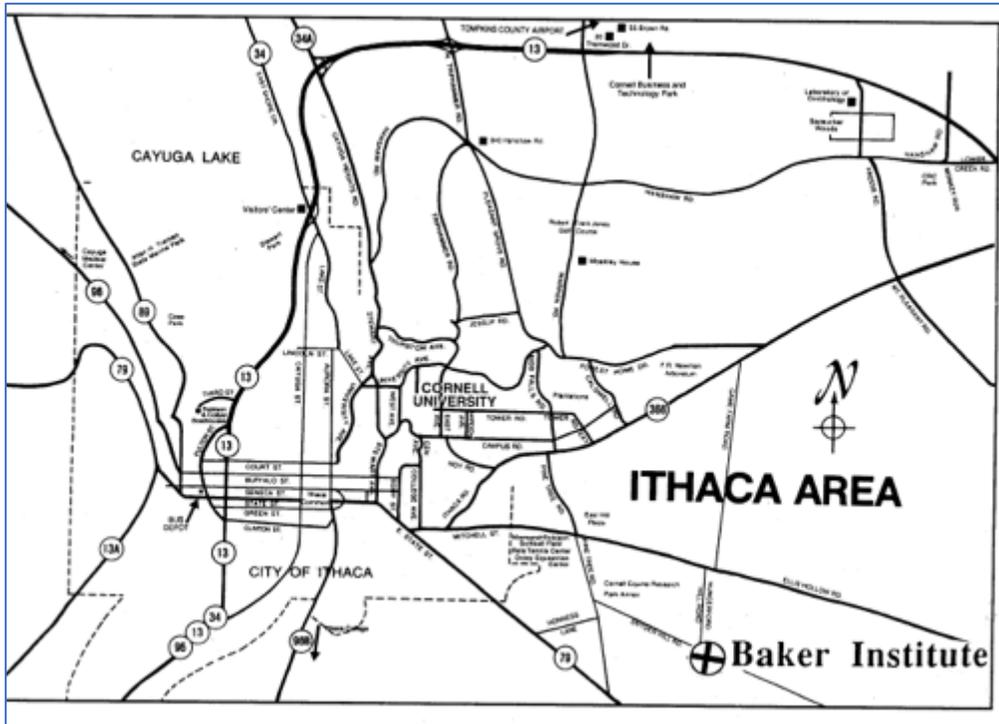
Parking

Attendees with cars can park in several lots near Stocking Hall for Monday and Tuesday's workshop sessions **using the ParkMobile app**. We suggest parking in the TRB lot near the Vet College leaving a short 5-minute walk to Stocking Hall. The cost is approximately \$6/day.

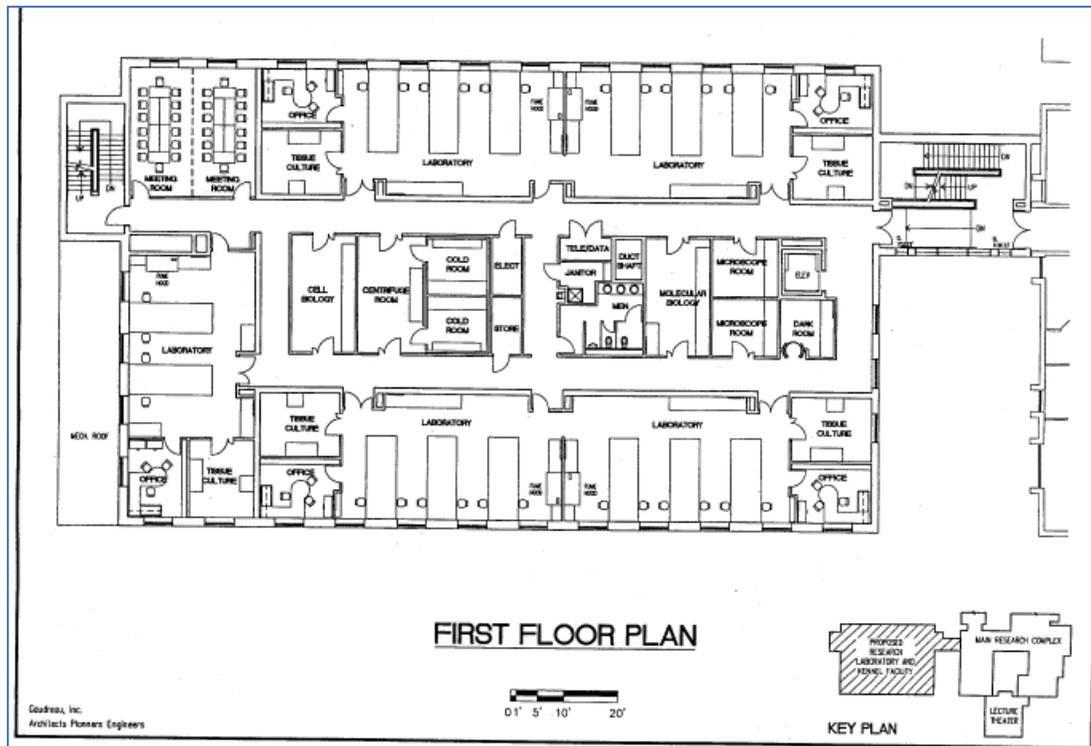
Free parking is available for the Sunday evening reception at the McConville Barn (770 Dryden Road), the Wednesday workshop session at the Baker Institute (235 Hungerford Hill Rd., and the Wednesday evening closing banquet at Centerline Farm (870 Ringwood Road).



Maps of Ithaca Area



Floor Plan of Baker Institute West Wing



Acknowledgments

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We would also like to thank our Havemeyer Summer Fellows Maya Kulikowski and Joséphine Marchand, and Equine Genetics Center Barn Crew member Brandon Garcia for their tireless efforts and good cheer.

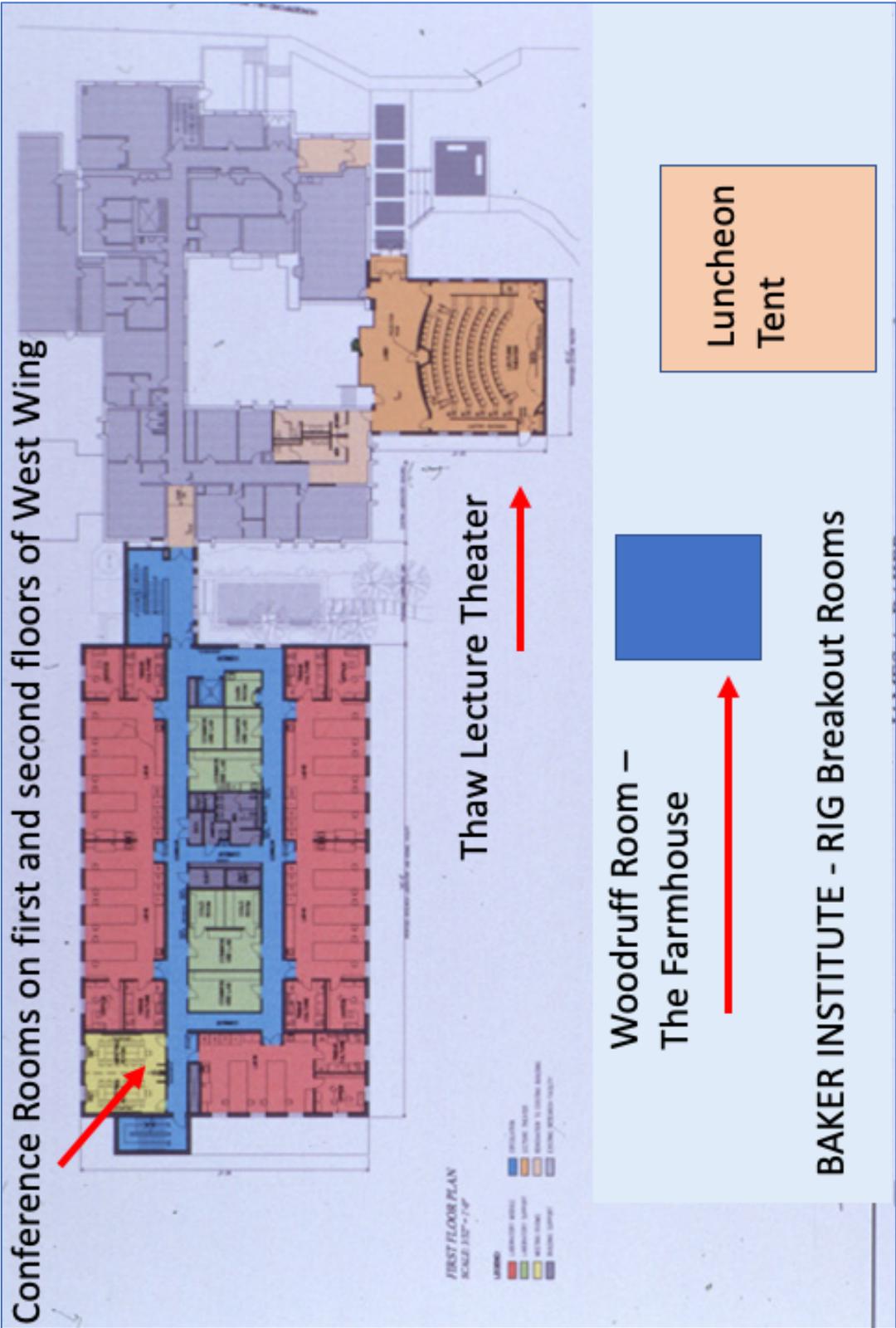
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