

## **MAX F. ROTHSCHILD**

C.F. Curtiss Distinguished Professor in Agriculture and Life Sciences  
Jefferson Science Fellow

Department of Animal Science  
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Ames, Iowa 50011

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### **EDUCATION**

University of California, Davis; B.S., Animal Science, background in genetics, 1974  
University of Wisconsin, Madison; M.S., Animal Science, 1975  
Cornell University, Ithaca, N.Y.; Ph.D., Animal Breeding, minors in Genetics, Statistics, 1978

### **EMPLOYMENT EXPERIENCE**

2013 – 18: Co-director, Global Food Security Consortium  
2012- present: CF Curtiss Distinguished professor and ME Ensminger Chair  
2011– 2012: Jefferson Science Fellow, USAID Bureau for Food Security  
2008–present: Assoc Director for Livestock, Center for Sustainable Rural Livelihoods, Iowa State University  
2007–present: M.E. Ensminger Endowed Chair in International Animal Agriculture, Iowa State University  
2002–2012: Co-Director/Director, Center for Integrated Animal Genomics, Iowa State University  
2001–2002: Visiting Scientist, Sygen International, Berkeley, California  
1999–present: C.F. Curtiss Distinguished Professor in Agriculture and Life Sciences, ISU  
1997–2001: Section Leader, Animal Breeding and Genetics, Dept. of Animal Science, Iowa State University.  
1993–2013: USDA-CSRS National Swine Genome Coordinator (four 5 yr appointments).  
1990–1994: Assistant Director, Agriculture Experiment Station (½ time).  
1987–1999: Professor, Department of Animal Science, Iowa State University. Research has centered on genetic and genomics of livestock. Teaching in animal breeding and genetics.  
1983–1987: Associate Professor, Dept. of Animal Science, Iowa State University.  
1980–1983: Assistant Professor, Dept. of Animal Science, Iowa State University.  
1978–1980: Assistant Professor, Dept. of Dairy Science, University of Maryland. Taught graduate and undergraduate courses in genetics and statistics. Research concerned health and reproductive disorders associated with selection for increased milk in dairy cows. Participated in a cooperative research program with USDA research center, Beltsville, MD.  
1974-1975: Graduate research assistant, Department of Animal Science, University of Wisconsin.  
1975-1978: Graduate research and teaching assistant, Department of Animal Science, Cornell University.

## **HONORS and AWARDS**

International award for Swine Genetics, S.African Swine Breeders, 2019  
Henry A Wallace Award, College of Agriculture and Life Sciences, Iowa State University, 2018  
Elected to the National Academy of Inventors, 2018  
Award of Distinction, University of California Davis College of Agriculture and Environmental Studies, 2017  
American Society of Animal Science Morrison Research Award, 2015  
Illumina Great Good Initiative Award winner, 2014  
Iowa State University Award for Achievement in Intellectual Property, 2013  
USAID Meritorious Honor team award, 2013  
College of Agriculture and Life Science Team Award, 2013  
Federal Labs Consortium for Technology Transfer Excellence in Tech Transfer for iSNP Consortium, ARS, ISU, INRA, UIL, WU, 2011  
Jefferson Science Fellow, 2011-2012 in DC, continues for 4 additional years  
American Society of Agricultural Editors, Distinguished Service Award, 2009  
American Society of Animal Science International Animal Agriculture Award, 2008  
M.E.Ensminger Endowed Chair in Animal Agriculture, 2007  
American Society of Animal Science Fellow Award, 2007  
ISU Foundation Order of the Knoll Faculty Award 2007  
Iowa State University International Service Award, 2007  
College of Agriculture Faculty Award for Diversity Enhancement, 2006  
NSIF Distinguished Service Award, 2005  
Huazhong (Central China) Agricultural University Guest Professor, 2005-2008  
ISU Research Foundation Award, 2003  
Gamma Sigma Delta Research Award of Merit, 2003  
College of Agriculture, Excellence in International Agriculture Award, 2003  
Iowa Inventor of the Year, 2002  
R&D 100 Award for PT1 (MC4R) gene discovery, 2002  
A. B. Chapman lecturer, University of Wisconsin, May 2002  
C. F. Curtiss Distinguished Professor in Agriculture, 1999  
R&D 100 Award for LS1 (ESR) gene discovery, 1999  
Fellow, American Association for the Advancement of Science, 1998  
USDA Honor Team Award, 1997  
American Society of Animal Science Animal Breeding and Genetics Award, 1995  
Finalist, Lilly Young Animal Science Research Award, 1991  
Midwestern Region American Society of Animal Science Young Researcher Award, 1990  
Iowa State University Livestock Service Award presented by Walnut Grove Feeds, 1985  
Allen Seymour Olmstead Graduate Fellowship, Cornell University, 1977-78  
Honors at graduation, Dean's List, Departmental citation, Alpha Zeta Honorary Agriculture Society, University of California at Davis

## **AFFILIATIONS**

Phi Sigma Pi Honorary Society  
Gamma Sigma Delta Honorary Agriculture Society  
American Society of Animal Science  
American Dairy Science Association  
International Mammalian Genome Society

American Association for the Advancement of Science  
International Society for Animal Genetics

### **PROFESSIONAL EXPERIENCE**

Co-professor in charge of swine breeding farm, Iowa State University, 1980-1998  
National Center Genomic Resources, Scientific Board member 1998-2001  
Northeastern University Center for Subsurface Imaging Systems, Scientific Board member,  
1998-2001  
AAAS Electorate Nominating Committee, 1999-2003  
NRC Subcommittee on Food and Agriculture, 2001-2002  
Reviewer, USDA, NCI, BARD, NSF, AKC and Canadian National Agriculture research grants  
Reviewer, Journal of Animal Science, Animal Blood Groups and Biochemical Genetics,  
Livestock Production Science, Animal Genetics, Journal of Dairy Science, Journal of  
Reproductive Immunology, Theoretical and Applied Genetics and Genetique, Selection and  
Evolution, Genomics, Mammalian Genome, Can. J. Anim. Science, Genetics, Animal  
Editorial Boards, Journal of Animal Science, 1982-84, 1996-98; Journal of Animal  
Biotechnology, 1989-present; Journal of Animal Breeding and Genetics, 1996-present;  
Journal of Brazilian Genetics, 1995-present; AgBio News and Information, 1997-present;  
Journal of Agriculture Genomics, 1998-2003  
Program Advisory Board for Agricultural Biotechnology of CAB International, 1997-present  
Animal Breeding Program Committee, Amer. Soc. Animal Science, 1982-84 (Chair, 1984)  
Animal Breeding Award Committee, Amer. Soc. Animal Science, 1985-87  
Long range planning committee, Iowa Purebred Swine Council, 1986  
Animal Breeding Program Committee, Midwest Amer. Soc. Animal Science, 1988-1991,  
Chairman 1990-91  
Consultant, World Pork Expo, 1988  
ASAS Midwestern section, Young Scientist Award Committee, 1990-1991  
Scientific Advisory Board, Biotechnology Research Development Corporation , 1992-1995  
Program Chair, XXIII Int. Congress on Animal Genetics, Interlaken, Switzerland 1992  
Chair, NC-210 "Mapping the Pig Genome" regional research project, 1992  
Program Chair, XXIV Int. Congress on Animal Genetics, Prague, Czech Republic, 1994  
Organizing Committee, Plant and Animal Genome meetings, 1995-present  
American Society of Animal Science Contemporary Issues Committee Chair, 1994  
Supervisor Committee, International Society of Animal Genetics, 2009- present  
Organizing committee Plant and Animal Genome meetings 1995-present  
Several other ASAS award committees

### **UNIVERSITY AND DEPARTMENTAL COMMITTEES**

Junior Advisor, Departmental Block and Bridle Club, 1980-81  
Advisor, Departmental Block and Bridle Club, 1981-82  
Departmental Scholarship Committee, 1983-1991  
Advisor/Asst. Advisor, Departmental Open House Display 1981-82, 1986-87  
Departmental Club Liaison, 1982-84  
Departmental Curriculum Committee, 1984  
Chair, Departmental Seminar Committee, 1984  
University Long-Range Planning Committee on Animal Facilities, 1987-1990  
University Committee for ISU-VASKhNill (Soviet Agricultural Academy ) 1988-1991

Admissions Committee. Immunobiology Program, 1986-87, 1989-1991  
Chair, Organizing Committee, Int'l. Symposium on the Molecular Biology of the Major  
Histocompatibility Complex of Domestic Animal Species, 1987  
College of Agriculture Biological Science Intellectual Property Study Committee, 1987-1989  
Chair, Swine Research and Teaching Long Range Planning Committee, 1988  
Scientific Leader, Chinese Pig Importation and Research Program, 1988-1994  
College of Agriculture Honors Committee, 1989-1990  
University Graduate Faculty Committee, 1987-1989  
Leader, ISU committee to develop USDA Swine-Pork Center concept and plans, 1990-1993  
Admissions Committee, Interdepartmental Genetics Program, 1991-1994, 1999  
Leader, Minority Graduate Student Recruitment Program, College of Agriculture, 1993-1994  
University Annuities and Insurance Committee, 1993-2000  
Microbiology, Immunology, & Preventative Medicine faculty promotion committee, 1993-1994  
ISU Athletic Council 1994  
Minority Affairs Committee, College of Agriculture, 1995-2001  
Departmental Seminar Committee, 1996-2002  
Carver Academy Scholarship Program, 1999-2001  
GMO Task Force, 1999-2001  
University Presidential Selection Committee, 2000-2001  
Presidential Initiative Review Committee, 2001  
Principal Investigator, Integrated Animal Initiative Proposal Committee 2002  
Co-organizer, Visions Conference, 2002-2003  
College of Veterinary Medicine Dean Selection Committee, 2003-2004  
Departmental Faculty Search committees, 2003-2004  
President's Budget Advisory Committee, 2003-2004  
Distinguished Professor Nomination Committee, University level, 2004-2006  
Distinguished Professor Nomination committee, College of Agriculture, 2006-  
University Selection committee, Provost, 2006  
University Selection Committee, Vice President for Research and Economic development, 2008  
Departmental Social and Communication Chair 2008-present  
Dean's search committee, 2018  
VP for research search committee, 2019-2020

## **OTHER INTERNATIONAL AND NATIONAL EXPERIENCE**

*Global Food Security consortium, Co-Director 2013-present*

Developed concept and helped recruit collaborators from international CGIAR centers, universities and other research locations. Working to develop new international initiatives.

*USAID, Bureau of Food Security, as Jefferson Science Fellow 2011-present.*

General duties include infusion of science into policy and planning. Activities include:

- Leadership and development of international goat project
- Analysis of research portfolio of many USAID Feed the Future projects
- Analysis and participation in CRSP (Cooperative Research Support Programs) research efforts
- Development of additional University-USAID collaborative projects.

*Associate Director for Livestock and Animal Health, Center for Sustainable Rural Livelihoods (CSRL), Iowa State University, 2008–present.*

General duties include the development of livestock programs as part of the overall effort of CSRL in Uganda (<http://www.srl.ag.iastate.edu>). Activities include:

- Fundraising and grantsmanship for livestock purchases and animal health care personnel
- Management of livestock programs, training of farmers and extension workers, and work with local NGO in Uganda

*International Research, Consulting, Teaching and Speaking Experience (selected from work in more than 60 countries over 37 years time)*

Travel in over 60 countries worldwide over the course of 37 years for research, consulting, teaching and speaking regarding animal genetics and livestock management and improvement. Recent experience has been in international grant review and development, management, nutrition and animal genetics teaching and development work in Africa, Central America and Asia. Speak some French and Spanish.

- International shrimp research effort with CP Group, Indonesia, 2009–2015
  - M.E. Ensminger Endowed Chair in International Animal Agriculture at Iowa State University; responsibilities include organizing international conferences tailored to the needs of the host countries: Costa Rica (2008), which focused on animal production in tropical climates and had over 100 students, faculty, industry and lay people from nine countries attending (<http://www.ans.iastate.edu/section/Ensminger/?pg=2008>); Lleida, Spain (2010), which focused on issues facing production of food in a changing and demanding world (<http://www.ans.iastate.edu/section/Ensminger/?pg=newschool>); Beijing and Wuhan, China (2011), which focused on new opportunities and collaborations in animal science research. Other more recent schools have been Peru (<http://www.ans.iastate.edu/extension/international-programs/ensminger-international-program/2014-ensminger-school>) and Honduras (<http://www.ans.iastate.edu/2016-ensminger-school>). Other duties of the position have included facilitating more international activities among faculty and students in the Department of Animal Science.
- CSRL development activities (see above), including setting up a training program to train poor farmers, building livestock structures and developing feeding and marketing plans, with additional emphasis directed toward educating school children on how to raise livestock and improve nutrition, Uganda, 2005–present.
- International Livestock Research Institute talks and cooperative research, Kenya, 2005–2016
- Chair, Scientific advisory board, ILRI CRP 3.7 project 2011-2016.
- Cooperative research, France, 1996; Brazil 2001; Bulgaria, 2008–present
- Bill & Melinda Gates Foundation meeting dealing with issues related to Africa, Kenya, 2009.
- Scientific advisor, Nordic Agricultural Ministers meeting on animal genetics, Iceland, 2004
- Ensminger International Schools participant, Taiwan and Thailand, 2002; Hungary, 2003; Korea, 2004
- Swine genetics project development, China 2002
- Consultation and review of African Swine Fever research in South Africa for the International Atomic Energy Agency, 2000
- World Bank review team member for research stations in India, 1997

- Swine industry consulting, Korea 1997
- External PhD examiner for PhD candidate, Sweden, 1985, 1996
- ISU/USAID cooperative research project development, Russia, 1994
- EEC consultations, France and Belgium, 1991, 1993
- Chinese pig selection for sole U.S. importation, 1989
- NATO cooperative research grant with Dutch cooperator, 1987
- Swine genetics consulting, Cofolk Breeding Company, the Netherlands, 1985
- Sabbatical leave at INRA, Jouy-en-Josas, France for 6 months in 1985
- Pig production advice and consultation, East Germany and Poland, 1984
- Pig genetic testing schemes and station development, Korea, 1982, 1984
- Swine breeding instruction and pig production consulting activities, China, 1982

*Co-Director/Director, Center for Integrated Animal Genomics, Iowa State University, 2002–2012*

General duties have included the development of a new research center at the university ([www.ciag.iastate.edu](http://www.ciag.iastate.edu)) and a program that has built and strengthened new relationships and collaborations among non-plant genomics researchers. My role as director has included:

- Development of on-campus grants program and activities in support of genomics on campus;
- Budget development and team grant writing to support center activities;
- Economic development activities work through the Iowa Biosciences Alliance Initiative in the State of Iowa;
- Communication with laypeople, state officers and elected officials on the role of genomics in modern agriculture and in economic development.

*USDA Pig Genome Coordinator and International Pig Genome Project member, 1993–2012*

USDA Pig Genome Coordinator initially selected and reappointed every 5 years through a competitive process in CSREES (now NIFA). Selected activities include (for a full range of activities see <http://www.genome.iastate.edu/pigs/>):

- Facilitation of pig genomics research throughout the U.S. and in cooperation with other scientists around the world;
- Initiation of the publication of a bimonthly newsletter for interested scientists;
- Running an online “discussion group” on animal genomics;
- Writing review articles for scientific journals;
- Engaging in interviews for the general public;
- Participating as a senior member of the International Swine Genome Sequencing committee, which directed fundraising and research efforts to sequence the pig genome and explain the activities to scientists, government officials and the lay public.

*Assistant Director, Iowa Agriculture Experiment Station, 1990–1994 (half-time appointment).*

General duties in assisting the Director and Associate Director as needed were wide ranging and included developing policy matters, participating in budget hearings and decisions, interviewing new faculty, assisting in legislative matters, arranging meetings with agriculture industry personnel, welcoming visitor groups to the College of Agriculture, and fundraising. Specific programs within the Experiment Station included:

- Managing the Agricultural Exper. Station innovative research/equipment grants programs;
- Managing the review process for Agricultural Experiment Station projects;

- Being administrative advisor for five North Central Regional Research Projects (NC-111, NC-113, NC-209, NCR-21, NCR-170);
- Development of prospective federal/state projects for the university;
- Development of a visiting scientist program;
- Minority recruitment and interactions with the 1890s institutions;
- Helping in the development of a USDA/ARS National Pig Research Center at Iowa State University, which included co-authoring the original center plan, visiting with industry and political leaders to help gain support, assisting USDA planning teams in developing the site for the facility and serving on industry and USDA committees in the planning process.

*Other Significant Administrative Duties at Iowa State University*

- Led initial U.S. importation and multiplication efforts of Chinese pigs at Iowa State University;
- Was co-leader/supervisor for the Iowa State University swine breeding farm staff and operations;
- Served as Section Leader, Animal Breeding and Genetics group (leading 16 faculty), 1997–2001.

• **COURSES TAUGHT**

Term	Course	# Students	Credits/ Hours
Fall, 1980	Applied Animal Breeding, AnS 351	56	3
Winter, 1981	Applied Animal Breeding, AnS 351	68	3
Spring, 1981	Applied Animal Breeding, AnS 351	90	3
Summer, 1981	Applied Animal Breeding, AnS 351	33	3
Fall, 1981	Livestock Improvement Through Animal Breeding, AnS 352	61	4
Spring, 1982	Livestock Improvement Through Animal Breeding, AnS 352	40	4
Spring, 1982	Designing Breeding Programs for Livestock, AnS 353	27	3
Fall, 1982	Livestock Improvement Through Animal Breeding, AnS 352	52	4
Spring, 1983	Designing Breeding Programs for Livestock, AnS 353	23	2
Spring, 1984	Designing Breeding Programs for Livestock, AnS 353	15	2
Summer, 1984	Livestock Improvement Through Animal Breeding, AnS 352	10	4
Fall, 1984	Statistical Applications in Animal Breeding, AnS 682X	6	1
Spring, 1985	Designing Breeding Programs for Livestock, AnS 353	19	2
Spring, 1986	Designing Breeding Programs for Livestock, AnS 353	7	3
Fall, 1986	Statistical Applications in Animal Breeding, AnS 682X	9	2
Spring, 1987	Designing Breeding Programs for Livestock, AnS 353	10	3
Spring, 1987	Livestock Improvement Through Animal Breeding, AnS 352	47	4
Spring, 1988	Livestock Improvement Through Animal Breeding, AnS 352a – TV Presentation Format	59	2
Fall, 1988	Statistical Applications in Animal Breeding, AnS 682X	8	2
Fall, 1988	Livestock Improvement Through Animal Breeding, AnS 352b – TV Presentation Format	21	2
Spring, 1989	Designing Breeding Programs for Livestock, AnS 353	7	3



Term	Course	# Students	Credits/ Hours
Spring, 1990	Designing Breeding Programs for Livestock, AnS 353	7	2
Spring, 1990	Companion Animal Science, AnS 224X – Genetics Lectures Only	32	2
Spring, 1991	Companion Animal Science, AnS 224X – Genetics Lectures Only	36	2
Spring, 1991	Genetic Regulation of Livestock Immunology, AnS 540, Guest Lecturer	8	2
Fall, 1991	Applied Poultry and Swine Breeding, AnS 653 – 2 Guest Lectures	7	2
Fall, 1991	Animal Biotechnology, AnS 451X – Guest Lecturer	12	3
Fall, 1992	Animal Biotechnology, AnS 451X – Guest Lecturer	8	3
Spring, 1992	Companion Animal Science, AnS 224X – Genetics Lectures Only	21	3
Spring, 1993	Companion Animal Science, AnS 224X – Genetics Lectures Only	24	3
Fall, 1993	Applied Poultry and Swine Breeding, AnS 653 – 2 Guest Lectures	7	2
Spring, 1994	Companion Animal Science, AnS 224X – Genetics Lectures Only	27	3
Spring, 1995	Companion Animal Science, AnS 224X – Genetics Lectures Only	33	3
Spring, 1995	Population Genetics, AnS 550 – Taught for 3 Weeks	6	3
Fall, 1995	Honors Symposium: Contemporary Challenges in Animal Agriculture	12	1
Fall, 1995	Applied Poultry and Swine Breeding, AnS 653 (.5 Course)	8	2
Spring, 1996	Companion Animal Science, AnS 224X – Genetics Lectures Only	40	3
Spring, 1996	Genetics 591, Shared Workshop Duties	45	1
Spring, 1997	Companion Animal Science, AnS 224X – Genetics Lectures Only	40	3
Spring, 1997	Animal Breeding Seminar, AnS 658X	15	1
Fall, 1997	Applied Poultry and Swine Breeding, AnS 653	6	2

Term	Course	# Students	Credits/ Hours
Spring, 1998	Companion Animal Science, AnS 224 – Genetics Lectures Only	40	3
Spring, 1999	Companion Animal Science, AnS 224 – Genetics Lectures Only	40	3
Spring, 1999	Designing Breeding Programs for Livestock, AnS 353	4	2
Fall, 1999	Issues in Animal Science, AnS 411	40	1
Spring, 2000	Companion Animal Science, AnS 224 – Genetics Lectures Only	35	3
Spring, 2000	Designing Breeding Programs for Livestock, AnS 353		
Spring, 2000	Current Topics in Genome Research, AnS 556 – Several Lectures	3	7
Fall, 2000	Animal Breeding & Genetics Seminar, AnS 658X	30	1
Spring 2001-present	Guest lecture Ans 501	20	1
Fall 2004	AnS 411 Ethics in Animal Agriculture	56	1
Fall 2008	Feeding the World: Are we making progress, College wide seminar	>50	0
Fall 2009	Feeding the World: Are we making progress, College wide seminar	>50	0
Fall 2008	Animal Breeding and Genetics Seminar	>50	1
Spring 2008	AnS 452X Animal and veterinary genetics (shared teaching)	6	3
Spring 2009	AnS 452X Animal and veterinary genetics (shared teaching)	6	3
Fall 2010	Feeding the World: Are we making progress, College wide seminar	>50	0
Fall 2012	Feeding the World: Are we making progress, College wide seminar	>50	0
Spring 2013	AnS 441X International Animal Science	16	3
Fall 2013	Feeding the World: Are we making progress, College wide seminar	36	1

Term	Course	# Students	Credits/ Hours
Spring 2014	AnS 441X International Animal Science	18	3
Fall 2014	Feeding the World: Are we making progress, College wide seminar	33	1
Spring 2015	AnS 441 International Animal Science	29	3
Fall 2015	AnS 658 Animal Breeding seminar	20	1
Fall 2015	Feeding the World: Are we making progress, College wide seminar	29	1
Spring 2016	AnS 441 International Animal Science	22	3
Fall 2016	Feeding the World: Are we making progress, College wide seminar	32	1
Spring 2017	AnS 441 International Animal Science	16	3
Fall 2017	Feeding the World: Are we making progress, College wide seminar	33	1
Fall 2018	Feeding the World: Are we making progress, College wide seminar	34	1
Fall 2019	Feeding the World: Are we making progress, College wide seminar	33	1

## GRADUATE STUDENTS, POSTDOCTORAL ASSOCIATES AND VISITING SCIENTISTS

Degrees granted as major or co-major professor: 22 M.S. students and 18 Ph.D. students, served on over 65 graduate committees for students in animal breeding, immunobiology, animal ecology and 25 Postdoctoral Associates and 30 Visiting Scientists.

Faculty member in the graduate programs in Animal Science, Interdepartmental Genetics and in Microbiology, Immunobiology and Preventative Medicine

<b>Graduate Students</b>	<b>Degree</b>	<b>Year Completed</b>	<b>Current Position</b>
Hagenow, Rebecca	M.S.	1982	Swine genetics professional, PIC, TN
DeCarrillo, Irma	M.S.	1983	College professor, Venezuela
Chen, Hsiao-Li	M.S.	1983	Computer programmer, California
Lawrisuk, Lois	M.S.	1985	Veterinarian, Illinois
Reyes, Gustavo	M.S.	1985	College professor, Colombia, S.A.
Shanks, Bart	M.S.	1985	Farmer, Iowa
Li, Jewen	M.S.	1985	Molecular biologist, U. of Missouri
Meeker, David	Ph.D.	1985	VP Research, Natl. Renderers Association, Washington DC
Kim, Chung Dae	M.S.	1987	Poultry geneticist, Korea
Jung, Young Chul	M.S.	1985	President, Swine genetics company, Korea
	Ph.D.	1987	
Lie, Wen Rong	Ph.D.	1987	Molecular biologist, Monsanto, Missouri
Ernst, Cathy W	M.S.	1988	Associate professor, MSU
Bogges, Mark	Ph.D.	1990	National Pork Board
Xu, Yuanxin	Ph.D.	1990	Molecular biologist, Transplantation Co., Mass.
Hsieh, Chao-Ying	M.S.	1991	Laboratory technician, Taiwan
Yu, Tun Ping	M.S.	1993	Researcher, Sygen Int.
	Ph.D.	1998	
Liu, Hsaio-Ching	M.S.	1994	Assistant Professor, N. Carolina State University
Messer, Lori	M.S.	1996	Lab manager and IT, Monsanto Corp
Vincent, Amy	M.S.	1997	Veterinarian, Staff Researcher, VMRI
Michaels, Rita	Ph.D.	1998	Swine geneticist/consultant, CN
Kemba Kelly	M.S.	1999	Research Assistant, University of Chicago
Kim, Kwan Suk	M.S.	1999	Assistant Professor, Korea
	Ph.D.	2003	
Jill Sherwood	M.S.	2001	Graduate Student, ISU
Massoud Malek	Ph.D.	2001	Post doctoral researcher, Switzerland
Laura Grapes	Ph.D.	2004	Monsanto Choice Genetics
Benny Mote	Ph.D.	2008	Geneticist, Fast Genetics
Marcos Ramos	Ph.D.	2006	Postdoctoral researcher, Wageningen University, Netherlands
Vickie Wilkie	Ph.D.	2006	Assistant professor, University of Minnesota
Zhao, Xia	MS	2009	Graduate student
Gorbach (Bowen), Daniel	Ph.D.	2011	Swine Geneticist, Nnewsham Choice Genetics

Ampaire, Agatha	M.S.	2011	Researcher, University of Nebraska
Zhao, Xia	PhD	2012	Researcher
Walugembe, Muhammed	M.S.	2013	Graduate student
	Ph.D.	Expected 2017	
Chincilla-Vargas, Josue	M.S.	2018	Graduate student
	PhD.	Expect 2021	

<b>Postdoctoral Associates</b>	<b>Year(s)</b>	<b>Present Position</b>
Flanagan, Michael	1984-85	Molecular biologist, Ohio
Wesley, Irene	1984	Microbiologist, USDA
Hoeschele, Ina	1986-87	College professor, VPI, Blacksburg VA
Vaske, David	1992-94	Molecular geneticist, Pioneer Hybrid, IA
Ruohonen-Lehto, Marja	1991-93	Biotech. Regulator, Finland
Wang, Lizhen	1994-1996	Swine geneticist, PIC USA, Franklin, KY
Kapke, Paul	1995-1996	Geneticist, Sygen International, Franklin KY
Hu, Zhiliang	1996-2000	Bioinformatics researcher, TN
Ernst, Cathy	1996	Assistant Professor, Michigan State University
Larsen, Niels	1997	Faculty, University of Copenhagen, Denmark
Marklund, Steffan	1998-1999	Researcher, Swedish Agricultural University, Uppsala, Sweden
Yu, Tun Ping	1998-1999	Scientist, PIC USA, Franklin, KY
Ciobanu, Daniel	1999-2002	Scientist, PIC USA, Franklin, KY
Zhang, Yuandan	1999- 2002	Lecturer, Univ of New England, South Wales, Australia
Woollard, John	2000-2002	Researcher, Iowa State University
Gaboreanu, Ana Maria	2002-2003	Postdoc, University of Iowa
Kim, Kwan Suk	2003	Assistant Professor, Korea
Otieno, Charles	2002-2004	Lecturer, British Columbia University
Grapes, Laura	2004-2005	Researcher, Monsanto
Yu, Mei	2004-2006	Professor, Wuhan Agric University
Bin Fan	2006-2011t	Professor , Wuhan University
Suneel Onteru	2007– 2012	Postdoctoral researcher
Zhiqiang Du	2007– 2013	Assoc Scientist
Eui-Soo Kim	2013 - 2015	Postdoctoral researcher
Francesca Bertolini	2015 present	Postdoctoral researcher

<b>Visiting Scientists</b>	<b>Year(s)</b>	<b>Country</b>
Goedegebuure, Dolph	1986	Netherlands
Sye, Y. S.	1988-89	Korea
Wang, L. Y.	1989-90	China
Kaplon, Marion	1990-91	Poland
Park, Y.	1997	Korea

Bertani, G.	1997-98	Brazil
Emnett, Rebecca	1999	US
Soller, Morris	2000	Israel
Grindflek, Eli	2000	Norway
Perez-Enciso, Miguel	2001	Spain
Pita, Renata	2002-03	Brazil
Suwanasopee, T.	2003	Thailand
Guimares, S	2005-2006	Brazil
Pia Pagkaliwagan Faylon	2007	Philippines
You-Kyoung Ha	2007	S. Korea
Benedicte Renaville	2007-2008	Italy
Mahlako Linky Makgahlela	2008-2009	South Africa
Teresa Giro	2009	Spain
Metodiev, Stoycho	2011-2012	Bulgaria
Joan Estany	2012	Spain
Ahmed Elbeltagy	2013	Egypt
Joram Mwacharo	2014, 2016	Ethiopia
George Masalya	2015	Tanzania
Ahmed Elbeltagy	2015, 2016	Egypt
Kathy Zurburg	2016	Canada
Andrea Talenti	2016	Italy
Atiyeh Peiravan	2016	Iran/UK
Erica Gorla	2018	Italy
Alex Bagnato	2018, 2019	Italy
Sinebongo Mdyogolo	2019	S. Africa

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**INTERNATIONAL EXPERIENCE**

Location	Sponsor	Dates	Function
People's Republic of China	Shenyang Agricultural College	6/1-18/82	Taught and Consulted on Swine Breeding
South Korea	US Feed Grains Council	4/14-28/84	Seminar and Consulting for Swine Breeding
GDR, Poland	US Feed Grains Council	8/29-9/13/84	Seminars and Consulting for Swine Breeding
Edinburgh, Scotland	ABRO	6/26-28/85	Seminars
Jouy-en-Josas, France	French Government Scholarship	7/1/85-1/1/86	Sabbatical Leave (Swine Genetics Research)
Wageningen, Netherlands	Agricultural University of Wageningen	8/26-28/85	Seminars
Denmark	National Institute of Animal Science	8/30/85	Seminars
Uppsala, Sweden	Swedish University of Agricultural Science	9/1-4/85	Seminars
Thesolaniiki, Greece	European Association of Animal Production	9/30-10/2/85	Paper Presentation
Netherlands	Cofolk Breeding Company	11/1/85	Swine Breeding Consulting
Bern, Switzerland	University of Bern	11/8/85	Seminars
Uppsala, Sweden	Swedish University of Agricultural Science	12/4-6/85	Ph.D. External Examiner
Wageningen, Netherlands	NATO Grant	3/1-7/87	Research
West Germany	German Animal Breeder's	3/8-14/87	Invited Papers

Location	Sponsor	Dates	Function
	Society		
Italy	International Pig Conference	4/28-5/3-87	Invited Paper
Portugal	Industry Travel Grant	9/24-10/1/87	EAAP Meetings
People's Republic of China	USDA, ISU, IPPA	3/14-24/89	Selection of Chinese Pigs for Importation
South Korea	US Feed Grains Council	9/15-22/89	Invited Seminar
Des Moines, IA (World Pork EXPO Display)	NPPC	6/1-4/90	Chinese Pigs
Jouy-en-Josas, France	INRA	6/28/90	Research Seminar Presentation
Toulouse, France (International Chinese Pig Meeting)	ISU	7/4-5/90	Presentation
Edinburgh, Scotland (4 <sup>th</sup> World Congress on Genetic Applied to Livestock)	ISU/4WCGAL	7/21-28/90	Invited Talk; Contributed Talk
Lansing, Michigan (International Congress on Animal Genetics)	ISU	8/25-31/90	Invited Presentation; Committee Work
Bangor, Wales, UK (International Disease Resistance Conference)	Wales College of Agriculture	9/11-15/90	Invited Presentation
Moscow, USSR; VASHkNill Conference	VASHkNill	10/1-8/90	Consulting and Paper Presentation
Toulouse, France; Paris, France	PiGMaP Consortium; EEC Commission	12/1-8/91	Consulting and Paper Presentation
Interlaken, Switzerland	ISU	8/31-9/10/92	ISAG Meeting; Presented Papers; Program Chair



Location	Sponsor	Dates	Function
Lorca, Spain	Spanish Swine Breeders	10/13-20/92	Invited Paper
Brussels, Belgium	PiGMaP Consortium; EEC Commission	6/12-28/93	Consulting and Paper Presentation
Edinburgh, Scotland	PiGMaP Consortium; EEC	2/24-28/94	Consulting and Paper Presentation
Edmonton, Canada	Canadian Government	6/21-22/94	Paper Presentation
Pushkin, Russia	ISU/USAID	6/23-7/5/94	Development of Collaborative Research
Prague, Czech Republic	ISU	7/23-29/94	Paper Presentation and Workshop Leader
Guelph, Canada	Canadian Holstein Association	3/26-28/95	Invited Paper Presentation
Ottawa, Canada	Canadian Society of Animal Science	7/11-12/95	Invited Paper Presentation
Prague, Czech Republic	ISU/USDA	9/4-9/95	Meeting and Presentation of Paper
Jerusalem, Israel	ISU	11/8-14/95	Two Invited Talks; Collaborative Research
Wageningen, Netherlands	ISU	11/14-15/95	Invited Talk; Collaborative Research
Ghent, Belgium	ISU/USDA	11/16-18/95	Invited Talk; Collaborative Research
Brisbane, Australia	HUGO	12/1-9/95	Three Invited Talks
Amsterdam, Netherlands	Genome Grants	2/24-25/96	PiGMaP Meeting and Research Presentation
Jouy-en-Josas, France	Genome Grants	2/24-25/96	Collaborative Research Development and Work
Sydney, Australia	Animal Reproduction	6/30-7/4/96	Invited Paper at ICAR Meeting

Location	Sponsor	Dates	Function
	Society		
South Korea	Korean National Livestock Institute, Seoul National Univ.	5/18-24/96	Two Invited Lectures and Consulting
France	Genome Grants	7/19-25/96	Invited Workshop Paper and Several Posters
Ottawa, Canada	Genome Grants	12/4-6/96	Two Invited Papers at Ottawa Carcass Symposium and NSIF Meeting
Bologna, Italy	Genome Grants	2/2-5/97	Invited Talk at Pig Producers Meeting and PiGMaP Meetings
Roldue, Netherlands	Int'l. Soc. of Anim. Reproduction	5/31-6/4/97	Invited Paper
India	World Bank	11/8-22/97	Review Team
Australia	Genome Grants	1/11-16/98	Invited Papers
Seoul, Korea	8 <sup>th</sup> World Congress, Animal Production	6/28-7/1/98	Invited Paper, Chair and Convene Section
Seoul, Korea	Korean Swine Producers	7/1/98	Invited Papers at Special Pig Symposium
New Zealand	Genome Grants	8/9-15/98	Invited Papers at ISAG Meeting
Scotland, UK	Pig Industry	9/8-13/98	Industry Consulting
Brussels, Belgium	USDA	9/14-15/98	USDA/EC Research Meeting
Bordeaux, France/ Jouy-en-Josas, France	Industry/ Genome Grant	10/20-24/98	Data Collection-Talk/ EC Research Meeting
Birmingham, UK	Industry	10/25-29/98	Research Meeting
Wye, UK	British Breeders Roundtable	3/20-28/99	Invited Paper
Toulouse, France	USDA	5/2-5/99	Invited Presentation at Comparative Genome Meeting
Uppsala, Sweden	Swedish Agricultural	6/7-9/99	External Ph.D. Examiner

Location	Sponsor	Dates	Function
	University		
Vicosa, Brazil	Brazilian University	9/21-20/99	Invited Talk at International Symposium
Seoul, Korea	Korea Livestock Research Institute	10/19-25/99	Invited Talk
South Africa	National Veterinary Lab	2/17-27/00	Design Experiments
Barcelona, Spain	Spanish Animal Breeding	6/7-11/00	Invited Speaker and Reunion of Animal Breeders
Northern Germany	PIC	6/27-7/2/00	Visit to Swine Herds and Consulting
Aurora, Camden	PIC	7/9-14/00	Data Collection
Hague, Netherlands	USDA	8/19-24/00	Speaker at EAAP Meeting.
San Paulo, Brazil; Visocas, Brazil	Brazilian Genetics	9/18-24/00	Invited Speaker at the National Genetics Meetings Research Project Development
Villa Real, Portugal	Portugal University	10/12-18/00	Invited Speaker at National Pig Meetings and Graduate Short Course Instructor
Bordeaux, France ; Jouy-en-Josas, France	INRA-PIC	11/10-19/00	Pig Data Collection and Invited Seminar at INRA
Bordeaux, France ; Jouy-en-Josas, France	INRA-PIC	3/11/-16/01	Pig Data Collection and Research Discussions
Bello Horizonte, Brazil	Brazilian Reproduction Society	8/1-5/01	Invited Paper at World Congress on Reproduction
Taiwan, Thailand	Ensminger Schools, ISU	1/27-2/10/02	Lectures, Interaction with Local Producers, Cultural Exchange
Cambridge, UK; Wye, UK	Sygen International; British Swine Breeders Roundtable	4/16-20/02	Cooperative Research at Cambridge University; Invited Paper at BBR
Montpellier, France	World Congress on Genetics Applied to	8/18-23/02	Invited Plenary Talk; Other Presentations at 7 <sup>th</sup> World Congress on Genetics Applied

Location	Sponsor	Dates	Function
	Livestock Production org.		to Livestock Production
Wuhan, Shanghai; Hongzhou, P R China	College of Agriculture, Sygen International	9/17-27/02	5 Invited Talks; Development of Cooperative Research and Training Programs
Barcelona, Cordoba Spain	PIC Europe, ECC	11/03-11/02	Invited Presentations to Spanish Pig Breeders, ECC Genetics Diversity Conference.
Cambridge, UK	Sygen, Int	3/30-31/03	Studentship research meetings, Cambridge University
Mexico City, Mexico	University of Mexico City	5/20/03	Invited Presentation at Conference on Veterinary Med.
Puerta Vallarta, Mexico	PIC Mexico	5/23/03	Invited Presentations and Consulting with Producers
Saskatchewan, Canada	Canadian Society of Animal Science	6/11-13/03	Invited Paper Can Soc of Animal Science and Invited Paper at Canadian Swine Mtg
Jouy-en-Josas, France	USDA	9/28/03	Invited Paper –Pig Sequencing Consortium Mtg
Budapest, Hungary	Ensminger Schools, ISU	10/8-15/03	Lectures, Interaction with Local Producers, Cultural Exchange
Cambridge, UK	Sygen International	4/14-15/04	Student Conference
Wye, UK	British Pig Breeders Roundtable	4/20-23/04	Invited Paper
Seoul, Korea	ISU College of Agriculture	5/10-5/16/04	Two Invited Talks
As, Norway	Norwegian College of Agriculture	6/15-20/04	Invited talk

Location	Sponsor	Dates	Function
Iceland	Nordic Council of Research	8/10-15/04	Present invited talk to Ministers of Agriculture of Nordic Countries
Tokyo Japan	USDA	9/10-16/04	Attend Int. Soc. Anim Genetics
Seoul Korea	Ensminger Schools, ISU	10/9-16/04	Lectures, Interaction with Local Producers, Cultural Exchange
Chile	Agro Super	11/16-20/04	Genetics consulting and training
Hixton, U.K.	USDA/Sanger Inst	2/28-3/2/05	Swine genome sequencing
Toronto, Canada	PIC USA	3/5 – 3/7/05	Invited presentation to Am Assoc. Swine Veterinarians
Kampapla Uganda Narobi, Kenya	SRL-ISU project	3/31–4/10/05	Develop plans to improve animal genetics delivery, present invited talks, research discussions
Narobi, Kenya	ILRI-Nairobi	5/10-5/14/05	Invited conference attendee
Pueta Vallarte, Mexico	Mexican Pork Producers	10/21-25/05	Invited speaker at national pork producer meetings
Kelowna, BC Canada	PIC	10/23-25/05	Invited speaker to pork production meetings
Beijing, Wuhan, Nanching, China	Various Chinese universities	10/28/05-11/08/05	Present seminars and lectures to three genomics groups in China
Lodi, Italy Bologna, Italy	COST European Network for Pig Genomics	2/19-22/06	Chair symposium session, present posters, present invited lectures Univ of Bologna
Bello Horizonte WCGALP8	WCGALP/ISU	8/12-19/06	Chair Session , present papers
Copenhagen , Denmark	Royal Veterinary University	10/7-13/06	Invited paper
Johansburg, South Africa	International Symposium on Pig genetic improvement	9/03-7/06	Invited speaker
Hangzhou China	Eagles Food Workshop	12/4-6/06	Invited Speaker

Location	Sponsor	Dates	Function
Uganda	CSRL	2/16-24/2007	Develop pig industry project
Paris, France	INRA	3/9-16/2007	Develop cooperative agreement
Singapore	CP Industries	4/8-14/2007	Present shrimp research project
Wuhan, China	Wuhan Agric University	10/5-12/2007	Present invited paper to Chinese Animal Breeding Society
Paris, France	In Conf Animal Health	10/21-26/2007	Present poster
Nairobi, Kenya	ILRI	11/4-9/ 2007	Present invited paper
Kampala, Uganda	VEDCO	2/24-3/1/08	Lecture, develop pig industry
San Jose, Costa Rica	Ensminger funding	5/21-24/08	Conference planning
Amsterdam, NL	Coordinator funding	7/19-24//08	ISAG meetings
Sophia, Bulgaria	Ensminger funding	10/14-18/08	Seminar presentation
Seoul, Korea	Coordinator funding	11/5-11/12/08	2 seminars presented
San Jose Costa Rica	Ensminger Fuds	2/7-14/09	Organized Ensminger school
Kamuli Uganda	CSRL funds	3/20-30/09	Development work
Kent UK	Genome funds	4 10-13/09	Swine breeders roundtable , present paper
Kamuli Uganda	CSRL funds	4/22-28/09	Long range planning
Nairobi Kenya	Gates Foundation	6/17-23/09	Gates grant discussions
LLeida, Spain	Ensminger Funds	10/28-11/2/09	Ensminger school planning
Cambridge, UK	Coordinator Funds	11/2-5/09	Swine sequencing meeting paper presentations
Kamuli Uganda	CSRL funds	11/9-16/09	Development work
Lleida , Spain	Ensminger Fund	May 14-22/10	Organized Ensminger School
Edinburgh, Scotland	ISAG	July 20-30/10	ISAG Orgnizing committee- International meetings
Leipzig, Germany	Grant funds	August 1-6/10	World congress on genetics Applied to Livestock Production/ presented talsk
Armidale Australia	Ensminger funds	Nov 6-18/2010	Present invited papers
Kamuli Uganda	CSRL funds	11/8-16/10	Development work
Delhi, India	Indian Government, Ensminger program	2/14-23/11	Invited presentation to international meeting

Location	Sponsor	Dates	Function
Kamuli, Uganda	CSRL	5/12-20/11	Development work
Jerusalem, Israel	Ensminger program	6/28-7/5	Invited talk
Beijing, Wuhan China	Ensminger program	10/13-21/11/11	Invited talks
Nairobi, Kenya	USAID	11'26-12/3/11	Goat genomics meetings
Malta	USAID	12/9-16/11	Peanut CRSP review meeting
San Paulo , Brazil	Brazil. Gov	Feb 2012	Goat meeting and invited talk
Addis , Ethiopia	USAID	April, 2012	Project review
Cairo , Egypt	USAID	May 2012	Water project review
Amman, Jordan	USAID	May 2012	Water project review
Cairns , Australia	ISAG	July, 2012	ISAG meetings
Uganda	USDA	10/22-11/2/2012	Chicken sampling
Nairobi, Kenya	ILRI	12/9-15/2012	ILRI project review
Kampalla, Uganda	USAID	3/10-3/15/2013	USAID Goat project
Singapore	PAG Asia	3/15-3/20/2013	Invited speaker
Adis Ababa, Ethiopia	ILRI	5/18-23/2013	Scientific advisory board
Nairobi, Kenya	Gates Foundation	7/20-7/27/2013	Advised young African scientists
Wuhan, China	Huazhong University	9/16- 9/22/2013	Invited speaker
Rio de Janero, Brazil	Gates foundation	10/27- 10/31/2013	Advice on livestock projects
Kamuli, Uganda	CSRL	11/19- 11/26/2013	Advice on livestock projects
Morogoro, Tanzania	ILRI	12/7-12/12/2013	Scientific advisory board on dairy value chain
Lima , Peru	Ensminger, La Molina University	Feb 19-23, 2014	Ensminger conferenceplanning and site visit
Dublin, Ireland	Heritage farms	March 16-21, 2014	Pig genetics consulting
Lleida Spain	Catalonian Research council	April 21-25, 2014	Grant evaluations
Singapore	PAG Asia	May 16-21, 2014	Meeting organizer and speaker
Addis, Ethiopia	USAID	June 9-16, 2014	Goat Improvement meetings

Location	Sponsor	Dates	Function
Xi'an, China	ISAG	July 25-31, 2014	Int ISAG meeting
Vancouver, Canada	World Congress	Aug 18-23, 2014	World Congress on Quant Genetics Applied to Livestock meeting
Nairobi, Kenya	ILRI	Sept 2-7, 2014	Scientific advisory board meetings
Lima, Peru	LaMolina University	Nov. 1-8,2014	Ensminger conference
Chengdu, China	Panda Research Center	Nov 10-15,2014	Research collaboration
Hanoi, Vietnam	ILRI	Nov16-23, 2014	Research site/value chain review
Kampala, Uganda	CSRL	Dec3-7, 2014	Project review
Kampala Uganda	ILRI	Dec 8-11, 2014	Pig value chain review
Kampala Uganda	CSRL	August 9-17, 2015	Livestock project
Tegucigalpa, Honduras	ISU Ensminger	November 2015	Ensminger site visit
Nairobi, Kenya	ILRI	Dec 6-11, 2015	Project review
Rome, Italy	Adaptmap/AGIN	Feb 20-27, 2016	Goat research and development projects
Havana, cuba	Winrock International	March 14-17, 2016	Invited speaker and livestock review
Kamuli, Uganda	CSRL	March 30 to April 4, 2016	Livestock development
Tegucigalpa, Honduras	ISU Ensminger	May 9-17, 2016	Ensminger school
London, UK	English Thoroughbred horse breeders	June 22-24, 2016	Invited speaker
Delhi, India	USDA	August 24-27, 2016	Invited speaker
Belfast, N. Ireland	ASAS	August 28-31, 2016	Invited speaker
Harbin, China	Agric University	September 24-28, 2016	Invited speaker
Nairobi, Kenya	ILRI	Dec 5-10, 2015	Project review
CapeTown, S. Africa	ITBA	Jan 5-9, 2017	Invited speaker
Quito, Ecuador	Self	Mar 15-22, 2017	Visitor
Seoul, Korea	PAG Asia	May 29- June 2, 2017	Invited speaker
Dublin, Ireland	ISAG	July 14-20, 2017	ISAG Meetings
Kamuli, Uganda	CSRL	Sept 12-19, 2017	CSRL plnning



Location	Sponsor	Dates	Function
Johannesburg, S Africa	Ensminger	Oct 29- Nov 7, 2017	AGIN meetings
Guangzhou, China	PPT	Nov 9-11, 2017	Invited speaker
Lleida, Spain	Agrotech	Nov 26-28, 2017	Grant review
Ljubjana, Slovenia	Un of Ljibjana	Dec 1-6, 2017	Invited speaker
Kamuli, Uganda	CSRL	March 3-8	Producer meetings
Auckland, New Zealand	Ensminger	Feb 7-12, 2018	World Congress
Dubai, AER	Gates Foundation	April 21-25	Livestock consulting
China	Yangxing	October 16-22, 2018	Pig consulting
Kamuli, Uganda	CSRL	July 9-15, 2018	Training center Opening
China	Yangxing	October 16-22, 2018	Invited paper, Lehamna Conf
UK	Kent	April 3-5, 2019	Pig breeders Roundtable , invited plenary
China	Yangxing	March 3 8, 2019	Consulting
Uganda	Kamuli	July 3-10, 2019	Farmer visits
South Africa	Pretoria	May 19-26, 2019	Ensminger meetings
Spain	Lleida	July 11-15, 2019	ISAG meetings
China	Yangxing	Sept 9-14, 2019	Consulting

## **PUBLICATIONS**

### **Refereed Articles**

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16. Rothschild, M. F., H. T. Hill, L. L. Christian, and C. M. Warner. 1984. Genetic differences in serum neutralization titers of pigs after vaccination with pseudorabies modified live virus-vaccine. *Am. J. Vet. Res.* 45:1216-1218.
17. VanRaden, P. M., A. E. Freeman, and M. F. Rothschild. 1984. Maximizing genetic gain under multiple stage selection. *J. Dairy Sci.* 67:1761-1766.
18. Rothschild, M. F., H. L. Chen, C. M. Warner, L. L. Christian, W. R. Lie, L. Venier, M. Cooper, and C. Briggs. 1984. Breed and SLA haplotype differences in agglutination titers following vaccination with B. bronchiseptica. *J. Anim. Sci.* 59:643-649.
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Community of Broiler and Layer Chicks. In: Symposium on Gut Health in Production of Food Animals, St. Louis, MO.

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332. Bjorkquist, A., M.F. Rothschild, M.E. Persia, C. Ashwell, C. Schmidt, and S.J. Lamont. 2015. QTL for blood chemistry components of an advanced intercross line of chickens under heat stress. Poultry Science Association. Abstract 142.

333. Lamont, S.J., A. Bjorkquist, D.K. Coble, M.F. Rothschild, M.F., M.E. Persia, C. Ashwell, and C.J. Schmidt. 2015. Genomics of heat stress in chickens. European Poultry Genetics Symposium. Abstract distributed to attendees.
334. Lamont, S.J., A. Bjorkquist, D.K. Coble, M.F. Rothschild, M.F., M.E. Persia, C. Ashwell, and C.J. Schmidt. 2015. Genomics of heat stress in poultry. Plant & Animal Genome XXIII. Abstract W028.
335. Barrett, N.W., C. J. Schmidt, S. J. Lamont, C. M. Ashwell, M. F. Rothschild and M. E. Persia. 2015. Acute and chronic effects of heat stress on performance and blood gas parameters in laying hens. Poultry Sci annual meeting.
336. Lyons, L.A., J.W. Pearce, E.K. Creighton, N.C. Pedersen, R. Malik, R.J. Todhunter, M.F. Rothschild, D.J. Garrick, N.M. Ellinwood, T. Leeb, H. Lohi, J.S. Munday, W.F. C.B. Kaelin, G. S. Barsh, W.J. Murphy and W.C. Warren. 2015. 99 Lives Cat Whole Genome Sequencing Initiative Update. Advances in Canine and Feline Genetics Conference, Cambridge, UK
337. Fleming D.S., J.E. Koltes, A. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J.M. Reecy and S. J. Lamont. 2015. Genomic analysis of Ugandan and Rwandan chicken ecotypes using a 600k genotyping array. Iowa State University. In: Gordon Research Seminar & Conference on Quantitative Genetics and Genomics (Tuscany, Italy); 2015.
338. Fleming D.S., J.E. Koltes, A. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J.M. Reecy and S. J. Lamont. 2015 Analysis of African chicken ecotypes using a 600k SNP chip. In: Graduate Minority Assistantship Program Symposium. Iowa State University; 2015.
339. Fleming D.S., J.E. Koltes, A. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J.M. Reecy and S. J. Lamont. 2015. Analysis of African chicken ecotypes using a 600k SNP chip. In: 9th European Symposium On Poultry Genetics. Tuusula, Finland; 2015.
340. Nicolazzi E.L., P.A. Marsan, M. Amills, H.J. Huson, P Riggs, M.F. Rothschild, R. Rupp, B Sayre, T.S. Sonstegard, A. Stella, G. Tosser-Klopp, C.P. Van Tassel, W. Zhang, The International Goat Genome Consortium 2015. An Update on Goat Genomics. EAAP annual meeting.
341. Van Dreumel T., K. Zurbrigg, T. O'Sullivan, R. Friendship, M. Rothschild, and David Alves. 2015. Comparison of heart weights, gross and histological lesions between market hogs that died in transit to the abattoir and hearts from hogs that did not die in transit. WAVLD2015 conference
342. Bertolini F., B. Gandolfi, E.S. Kim, B. Haase, L.A. Lyons and M.F. Rothschild. 2016. Evidence of selection signatures that shape the Persian cat breed. Plant & Animal Genome XXIV, San Diego, California

343. Bertolini F., J. Harding, B. Mote, G.S. Plastow, and M.F. Rothschild. 2016. Genomic differences between pre-weaning survival and mortality of piglets following PEDV outbreaks. Plant & Animal Genome XXIV, San Diego, California
344. Elbeltagy, A.R., E.-S. Kim, J. Mwacharo, A. M. Aboulnaga, B. Rischkowsky, M. F. Rothschild and ADAPTmap and International Sheep Genomics Consortia. 2016 Whole Genome Analysis of Small Ruminant Tolerance to Grazing Stress under Arid Desert Conditions. Plant & Animal Genome XXIV, San Diego, California
345. Van Goor A., K.J. Bolek, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2016. Quantitative trait loci identified for body temperature, body weight, breast yield, and feed digestibility in an advanced intercross line of chickens under heat stress. Plant & Animal Genome XXIV, San Diego, California
346. Van Goor A., C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2016. Unique genetic responses revealed in RNA-seq from the spleen of chickens stimulated with lipopolysaccharide and heat. Plant & Animal Genome XXIV, San Diego, California
347. Serão, E.D. Mauch, M.F. Rothschild and J.C.M. Dekkers. 2016. Genome-wide association study (GWAS) for residual feed intake (RFI) and component traits of feed efficiency in pigs divergently selected for RFI. Am. Soc of Anim Sci Midwest Meetings.
348. Rosen B.D., H.J. Huson, A. Staiger, T.S. Sonstegard, J. Silverstein, B.L. Sayre, J. Woodward-Greene, S.G. Schroeder, G. Spangler, E.E. Connor<sup>1</sup>, M.F. Rothschild, T. Gondwe, H. Mulindwa, J. Soelkner, C. P. Van Tassell and AGIN Consortium. 2016. African goat improvement network: community-based breeding programs for sustainable genetic improvement. Plant & Animal Genome XXIV, San Diego, California
349. Rothschild M.F. 2016. This little piggy went to market: applications of genomics to improved health for sustainable pig production. Proceedings of the EAAP meetings in Belfast Ireland
350. Rothschild M.F. 2016. Applications of genomics to address adaptation of livestock to stressful environments to prevent food insecurity in the developing world. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.
351. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2016 Immunomodulatory effects of heat stress and lipopolysaccharide on the chicken bursal transcriptome. XIV Avian Immunology Research Group Meeting. 7-10 September 2016. Herrsching am Ammersee, DEU.
352. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt, and S.J. Lamont. 2016. Transcriptome responses to heat stress and lipopolysaccharide in chicken primary immune tissues. 13-14 April 2016. "REAL Sustainability" Symposium. Ames, IA.

353. Mwacharo J.M., A.R. Elbeltagy, E.S. Kim, A. Haile, B. Rischkowsky and M.F. Rothschild. 2016. Indigenous stocks as treasure troves for sustainable livestock production in the 21st century: Insights from small ruminant genomics. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.
354. Bertolini F., A.R. Elbeltagy, F.A. Ponce de Leon, G.A. Gutiérrez and M.F. Rothschild. 2016. Applicability of using bovine, ovine and caprine SNP chips for alpaca and dromedary genomic studies. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.
355. Elbeltagy A. R., D.S. Fleming, F. Bertolini, A.G. Van Goor, C. M. Ashwell, C. J. Schmidt, S.J. Lamont and M.F. Rothschild. 2016. Runs of homozygosity reveal natural selection footprints of some African chicken breeds and village ecotypes. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.
356. Mwacharo J.M., E.S. Kim, A.R. Elbeltagy, A.M. Aboul-Naga, B. Rischkowsky, ISGC and M.F. Rothschild. 2016. Genome-wide scans reveal multiple selection sweep regions in indigenous sheep (*Ovis aries*) from a hot arid tropical environment. Proceedings of the XXIV Plant and Animal Genome Conference, 8-13 January 2016, San Diego, California, USA.
357. Bertolini F., A. Elbeltagy, F.A. Ponce de Leon, G.A. Gutiérrez and M.F. Rothschild. 2016. Applicability of using bovine, ovine and caprine SNP chips for alpaca and dromedary genomic studies. ISAG, 35<sup>th</sup> International Society for Animal Genetics Conference, 23-27 July, Salt Lake City, US.
358. Bertolini F. and M.F. Rothschild. 2016. Golden milk: Increasing beta-carotene content in developing countries: first step. ISAG, 35<sup>th</sup> International Society for Animal Genetics Conference 23-27 July, Salt Lake city, US.
359. Bertolini F., M.F. Rothschild and the ADAPTMAP consortium. 2017. Linkage Disequilibrium Analysis across 126 goat breeds of the ADAPTMAP consortium. PAG, 26<sup>th</sup> Plant and Animal Genomics Conference, 14-18 January, San Diego, CA, US.
360. Bertolini F., T. Yang, Y. Huang, J.C.S. Harding, M.F. Rothschild and Plastow G.S. 2017. Failure to Thrive Syndrome (PFTS): is there a genetic component? PAG, 26<sup>th</sup> Plant and Animal Genomics Conference, 14-18 January, San Diego, CA, US.
361. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. Down-regulation in the chicken thymus transcriptome in response to heat stress and lipopolysaccharide. 14-18 January 2017. Plant and Animal Genomes Conference XXV. San Diego, CA.
362. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. Characterizing responses to heat stress and lipopolysaccharide using transcriptomics in chicken immune tissues. 14-18 January 2017. Plant and Animal Genomes Conference XXV. San Diego, CA.

363. Talentia A., F. Bertolini, S. Frattini, A. Elbeltagy, G. Pagnacco, B. Coizet, A. M. Aboul-Naga, J. M. Reecy, M. Moaen-ud-Din, M.F. Rothschild, P. Crepaldi and the Italian Goat Consortium. 2016. Initial genomic characterization of Italian, Egyptian and Pakistani goat breeds. Proceeding of Veterinary and Animal Science Days 2016, 8th- 10th June, Milan, Italy Bertolini F., E. Roachat, S. Joost, B. Servin, P. Crepaldi, A. Stella, and M.F. Rothschild MF. 2017. A worldwide investigation of the effects of climate selection on goat genomes. ISAG, 36<sup>th</sup> International Society for Animal Genetics Conference, 16-21 July, Dublin, Ireland.
364. Bertolini F., S. Bovo S, M.F. Rothschild and L. Fontanesi 2017. Mining the European Sea Bass (*Dicentrarchus labrax*) genome for the characterization of tandem repeat variability. ISAG, 36<sup>th</sup> International Society for Animal Genetics Conference, 16-21 July, Dublin, Ireland.
365. Bertolini F, K. Zurbrigg, T. van Dreumel, T. O'Sullivan, and M.F. Rothschild. 2017. Investigating the genomic basis of pigs that have died in transit. ISAG 36<sup>th</sup> International Society for Animal Genetics Conference, 16-21 July, Dublin, Ireland.
366. Stock, J.D., A.K. Johnson, M.F. Rothschild, and K.J. Stalder. 2017 Selecting for feet and leg traits that reduce the occurrence of lameness. Invited Speaker –1<sup>st</sup> Pig Welfare Symposium, Des Moines, IA, USA
367. Bertolini F, G. Schiavo, G. Galimberti, S. Bovo, M. D'Andrea, M. Gallo, L. Buttazzoni, M.F. Rothschild, L. Fontanesi. 2018. Getting to the meat of the matter: Identification of genomic regions associated with dry-cured ham quality and production traits in Italian Duroc pigs. 11<sup>th</sup> World Congress on Genetics Applied to Livestock Production, 11–16 February, Auckland, New Zealand.
368. Bertolini F, J. Chinchilla Vargas, J.R. Khadse, A. Juneja, P.D. Deshpande, V. Potdar, K. Bhave, A.B. Pande, M.F. Rothschild. 2018. Marker discovery and associations with beta-carotene content in Indian dairy cattle and buffalo breeds. 11<sup>th</sup> World Congress on Genetics Applied to Livestock Production, 11–16 February, Auckland, New Zealand.
369. Bertolini F, G. Schiavo, G. Galimberti, S. Bovo, M. D'Andrea, M. Gallo, L. Buttazzoni, M.F. Rothschild, L. Fontanesi. 2018. Genome Wide Association Analyses for Dry Cured Ham Related Traits in Italian Duroc Pigs. 26<sup>th</sup> Plant and Animal Genome, 13-17 Jan, San Diego, CA, US.
370. Bertolini F, J. Chinchilla Vargas, J.R. Khadse, A. Juneja, P.D. Deshpande, V. Potdar, K. Bhave, A.B. Pande, M.F. Rothschild. 2018. Identification of Genetic Markers Associated with Beta Carotene Levels in Buffalo and Dairy Cattle Milk: An Opportunity to Improve Milk Quality in India. 26<sup>th</sup> Plant and Animal Genome, 13-17 Jan, San Diego, CA, US.
371. Bertolini F., G. Schiavo, S. Tinarelli, M. Gallo, M.F. Rothschild and L. Fontanesi. 2018. The effects of selection on the genomic architecture of the Italian Large White and Duroc heavy pigs. 69<sup>th</sup> Annual Meeting of the European Federation of Animal Science (EAAP), Dubrovnik, Croatia, 27<sup>th</sup> to 31<sup>st</sup> August.

372. Rowland, K. J.C.F. Hsieh, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C. Schmidt and S.J. Lamont. 2018. GWAS of production and iSTAT traits in heat stressed white laying hens. Poultry Breeders Roundtable, St. Louis
373. Walugembe, M., F. Bertolini, C.M.B. Dematawewa, A. Elbeltagy, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2018. Genomic analysis of chicken ecotypes from Brazil, Sri Lanka, and Egypt: impact of different environmental conditions. Proceedings of the National Breeders Roundtable Program. St. Louis, Missouri, USA, May 17 – 18.
374. Walugembe, M., F. Bertolini, C.M.B. Dematawewa, A. Elbeltagy, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2018. Genomic analysis of chicken ecotypes from Brazil, Sri Lanka, and Egypt: impact of different environmental conditions. Proceedings of the World Congress on Genetics Applied to Livestock Production. Paper 241
375. Walugembe, M., F. Bertolini, C.M.B. Dematawewa, A. Elbeltagy, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2018. Detection of selection signatures among Brazilian, Sri Lankan, and Egyptian chicken populations under different environmental conditions. Proceedings of the International Plant & Animal Genome XXVI (PAG XXVI). San Diego CA, USA, January 13<sup>th</sup> -17<sup>th</sup>. Poster presentation.
376. Chinchilla-Vargas J., K. Kerns and M.F. Rothschild. 2018. Climatic and lunar effects on quality traits of boar semen. ASAS Midwest Meeting Omaha NE
377. Gorla, E., F. Bertolini, M. G. Strillacci, M. C. Cozzi, S. I. Roman-Ponce, F. J. Ruiz, C.M.B. Dematawewa, D. Kugonza, A. Elbeltagy, C. Schmidt, S. J. Lamont, A. Bagnato and M. F. Rothschild. 2018. Genomic variability in a worldwide chicken populations based on Copy Number Variant. 69th Annual Meeting of the European Federation of Animal Science (EAAP), Dubrovnik, Croatia, 27th to 31st August.
378. Bertolini F., A. Ribani, F. Capoccioni, L. Buttazzoni, V. J. Utzeri, S. Bovo, M. Caggiano, L. Fontanesi and M. Rothschild. 2019. Whole genome analyses of gilthead seabream (*Sparus aurata*) identify a major QTL for “albinism”. International Plant & Animal Genome XXVII (PAG XXVII). San Diego CA, USA, January 13<sup>th</sup> -17<sup>th</sup>. Poster presentation.
379. Gorla, E., F. Bertolini, M. G. Strillacci, M. C. Cozzi, S.I. Roman-Ponce, F. J. Ruiz, V. M. Vega Eliezer, C. M.B. Dematawewa, D. Kugonza, A. Elbeltagy, C. J. Schmidt, S. J. Lamont, M. F. Rothschild and A. Bagnato. 2019. Genomic Diversity Using Copy Number Variations and Single Nucleotide Polymorphism in Worldwide Chicken Populations. Proceedings of the International Plant & Animal Genome XXVI (PAG XXVI). San Diego CA, USA, January 13<sup>th</sup> -17<sup>th</sup>. Poster presentation.
380. Chinchilla-Vargas, J., F. Bertolini, J.R. Khadse, A. Juneja, P.D. Deshpande, P.M. Kakramjar, A. R. Karlekar, A.B. Pande, R. L. Fernando and M.F. Rothschild. 2019. SNP discovery and associations with beta-carotene content in Indian dairy cattle and buffalo breeds. Proceedings of the International Plant & Animal Genome XXVI (PAG XXVI). San Diego CA, USA, January 13<sup>th</sup> -17<sup>th</sup>. Poster presentation.
381. Chinchilla-Vargas, J. L. M. Kramer, J. D. Tucker, D. S. Hubbell III, J. G. Powell, T. D. Lester, E. A. Backes, K. Anschutz, K. J. Stalder, M. F. Rothschild, J. E. Koltes. 2019.

- Peripheral blood parameters as proxies of performance in beef cattle: Heritability and genetic correlations between peripheral blood parameters and performance phenotypes. Proceedings of the Midwestern Section ASAS and Midwest Branch ADSA Joint Meeting. Omaha, NA, USA, March 11<sup>th</sup>-13<sup>th</sup>.
- 382 Mdyogolo S., M. Walugembe, J. Chinchilla-Vargas, M.F. Rothschild, M.L. Makgahlela. Identifying putative genomic signatures of selection between the Brahman and Afrikaner cattle of South Africa. 2019. 37<sup>th</sup> International Society of Animal Genetics Conference. Lleida, Spain July 7 – 12, 2019.
- 383 Chinchilla-Vargas J., L. M. Kramer, J. D. Tucker, D. S. Hubbell III, J. G. Powell, T. D. Lester, E. A. Backes, K. Anschutz, J. E. Decker, K. J. Stalder, M. F. Rothschild, and J. E. Koltes. 2020 Blood traits in beef cattle and their relationship with production traits at weaning. 2020. International Plant & Genome XXVII (PAG XXVII). San Diego CA, USA, 11 – 15 Jan, 2020.
- 384 Chinchilla-Vargas, J., F. Bertolini, J.R. Khadse, A. Juneja, P.D. Deshpande, P.M. Kakramjar, A. R. Karlekar, A.B. Pande, R. L. Fernando and M.F. Rothschild. 2020 SNP discovery and associations with beta-carotene content in Indian buffalo breeds. International Plant & Genome XXVII (PAG XXVII). San Diego CA, USA, 11 – 15 Jan, 2020.
- 385 Chinchilla-Vargas J., L. M. Kramer, J. D. Tucker, D. S. Hubbell III, J. G. Powell, T. D. Lester, E. A. Backes, K. Anschutz, J. E. Decker, K. J. Stalder, M. F. Rothschild, and J. E. Koltes. 2020. Blood traits in beef cattle and their relationship with production traits at weaning. ASAS-ASDA Midwest Meeting. Omaha, NA, USA 2 - 4 March, 2020.
- 386 Monson, M. S., Van Goor, A. G., Rothschild, M. F., Schmidt, C. J., and Lamont, S. J. Gene co-expression in the chicken thymus reveals unique responses to lipopolysaccharide and acute heat stress. 2019 Animal Genetics and Diseases Conference. Hinxton, UK. May 8-10, 2019. (Oral presentation).
- 387 Donnini, ED; M. Rothschild, M. Walugembe, A.E. Jergens, and K. Allenspach, 2019. Familial Protein Losing Enteropathy in Gordon Setters: A Genome Wide Association Study ACVIM forum.

### **Symposia and Invited Talks**

1. Miller, R. H., R. E. Pearson and M. F. Rothschild. 1980. Effects of selection for milk yield on incidence of clinical mastitis. Int. Sym. on Resistance Factors and Genetic Aspects of Mastitis Control. Warsaw, Poland, October.
2. Rothschild, M. F. 1980. Are tested boars a bargain: A comparison of relative economic values and prices paid for centrally tested boars. Proc. National Swine Improvement Fed.



3. Rothschild, M. F. 1983. Selection for disease resistance. Iowa Pork Congress, Des Moines, IA, January.
4. Rothschild, M. F. 1984. Engineering genetics for the future. American Pork Congress, March.
5. Rothschild, M. F. 1984. New genetic approaches to improved disease resistance in the pig. National (Poultry) Breeders Roundtable, May 3-4.
6. Rothschild, M. F. 1984. The role of statistics in animal breeding. Presented at the symposium "New statistical methods in animal breeding and genetics," American Society of Animal Science Annual Meeting, Columbia, MO, August 8.
7. Christian, L. L. and M. F. Rothschild. 1985. Breeding for pork value. Iowa Pork Congress, Des Moines, IA, January 21.
8. Rothschild, M. F. 1986. Selection for front leg soundness and its relationship with *Mycoplasma arthritis*. Iowa Pork Congress, Des Moines, January 28.
9. Rothschild, M. F., Ch. Renard, P. Sellier, M. Bonneau, and M. Vaiman. 1986. Swine lymphocyte antigen (SLA) haplotype effects on male genital tract development and androstenone level. Proc. 3rd. World Cong. on Gen. Applied to Livestock, Lincoln, NE, July 17-22
10. Lawrisuk, L. S., R. F. Ross, M. F. Rothschild, L. L. Christian, and D. L. Meeker. 1986. Relationship between front leg soundness and *Mycoplasma hyosynoviae* infection in Duroc swine. Proc. 3rd World Cong. on Gen. Applied to Livestock, Lincoln, NE, July 17-22.
11. Rothschild, M. F. 1987. Genetic control of immune response: problems and prospects for the future. Proc. Illinois State Vet. Med. Assoc. annual meetings.
12. Rothschild, M. F. 1987. The role of the swine major histocompatibility complex in immune response and reproduction. Presented at Ausschuss fur genetisch-statistische Methoden in der Tierzucht, Wolfenbuttel, W. Germany, March 8-10.
13. Rothschild, M. F. 1987. Pig selection with a view to disease resistance. Rassegna Suinicola Internazionale. Reggio Emilia, Italy, May 1.
14. Rothschild, M. F. 1987. Genetic control of front leg structure in Duroc swine. National (Poultry) Breeders Roundtable, St. Louis, MO, May 8.
15. Rothschild, M. F. 1987. Prospects for genetic improvement through gene identification and transfer in swine. National Swine Improvement Federation Annual Meetings, St. Louis, MO, Dec. 7.
16. Rothschild, M. F. 1987. Biotechnology in Animal Science and collaborating departments. 4th Zootechnische Almanak State Agricultural University, Wageningen, Netherlands.

17. Rothschild, M. F. 1988. The role of the swine major histocompatibility complex in immune response and reproduction. Osborne Research Club, Ames, IA, Jan. 19.
18. Rothschild, M. F. 1988. The role of the swine major histocompatibility complex in immune response, reproduction and performance traits. University of Arizona, April 20.
19. Rothschild, M. F. 1988. Genetic interrelationships to the immune system. American Society of Animal Science 80th Annual Meeting, Rutgers University, July 20.
20. Rothschild, M. F. 1988. The genetic interrelationships of disease, reproduction and leg soundness in swine. Proceedings of the National Swine Improvement Federation Annual Meeting, Dec. 4-6.
21. Rothschild, M. F. 1989. Swine breeding research priorities for the 1990s. Midwest Meetings of the American Society of Animal Science, March 22-24.
22. Rothschild, M. F. 1989. Genetic engineering-Potentials for pork production. World Pork Expo, Springfield, IL, June 18-20.
23. Rothschild, M. F. 1989. The production and evaluation of high quality lean market pigs. U. S. Feed Grains Council Presentation, Seoul, S. Korea, Sept. 15-22.
24. Rothschild, M. F. 1989. Aspects of function and structure of swine major histocompatibility complex genes. Department of Meat and Animal Sciences, University of Wisconsin, Madison, Oct. 25.
25. Rothschild, M. F. 1990. The role of biology in future pig breeding programs. Proc. 4th World Congress on Genetics Applied to Livestock Production, Edinburgh, Scotland, UK, July 23-27, Vol XV, pp. 415-426.
26. Rothschild, M. F., D. L. Hoganson, C. M. Warner, and N. K. Schwartz. 1990. The use of major histocompatibility complex class I restriction fragment length polymorphism analysis to predict performance in the pig. Proc. 4th World Congress on Genetics Applied to Livestock Production, Edinburgh, Scotland, U.K., July 23-27, Vol XIII, pp.125-128.
27. Rothschild, M. F. 1990. Selection under challenging environments. Proc. International Conference on Disease Resistance in Farm Animals, Bangor, Wales, UK, Sept. 11-15.
28. Rothschild, M. F. 1990. Genetic engineering and animal production systems. Proc. VASHkNill Conference, Suszda, USSR, Oct. 4-5.
29. Rothschild, M. F. 1991. The structure and function of the swine major histocompatibility complex. Amer. Soc. Anim. Sci. meetings, Laramie, WY.
30. Rothschild, M. F. 1991. The Chinese breeds - What we have learned and how it will impact pork production in the upper Midwest. Land O'Lakes Farm Day, Fort Dodge, IA.

31. Rothschild, M. F. 1991. Accomplishments, contributions and opportunities of modern genetic research to the swine industry. Presentation at Lilly Animal Research Laboratories, Greenfield, IN.
32. Rothschild, M. F. and C. M. Warner. 1991. Molecular analysis of pig chromosome 7 with special emphasis on the SLA complex. PiGMaP meeting, Toulouse, France, Dec. 6.
33. Rothschild, M. F. and C. K. Tuggle. 1991. Cloning members of the Pou-domain gene family for use in swine genome mapping and marker-assisted selection. PiGMaP meeting, Toulouse, France, Dec. 6.
34. Rothschild, M. F. 1992. Proyecto Americano sobre el mapa genético porcino [American pig gene mapping project]. Proc. of the "Simposio Internacional de Porcinocultura SEMPOR'92", Lorca, Spain, Sept. 13-15, pp. 177-183.
35. Rothschild, M. F. 1992. Mapping the pig genome. Proceedings of the Minnesota Swine Conference for Veterinarians, Minneapolis, MN, Sept. 20-22, pp. 75-82.
36. Rothschild, M. F. 1992. Opportunities in the selection for genetic resistance to disease. Proceedings of the Minnesota Swine Conference for Veterinarians, Minneapolis, MN, Sept. 20-22, pp. 145-150.
37. Rothschild, M. F. 1992. Discussing techniques for genetic evaluation. Iowa Purebred Swine Council Seminar, "A Vision for the Future, Your Business, Your Profit. Ames, IA, Nov. 10.
38. Rothschild, M. F. 1992. Role of biotechnology in pig breeding. Proc.s of National Swine Improvement Federation, Omaha, NE, Dec. 6-8.
39. Rothschild, M. F. 1993. Report on U.S. gene mapping activities. PiGMaP Meeting, Brussels, Belgium, June 18-19.
40. Rothschild, M. F. 1993. Gene mapping research at Iowa State University. INRA, Jouy-en-Josas, France, June 21.
41. Rothschild, M. F. 1993. Coordination of U.S. gene mapping activities. NRSP-8 meeting, Salt Lake City, UT, Nov. 18.
42. Rothschild, M. F. 1993. Coordination of U.S. gene mapping activities. Proc. NSIF annual meeting, St. Louis MO, Dec. 6.
43. Rothschild, M. F. 1994. Update on U.S. pig gene mapping activities. Proc. PiGMaP Pig Gene Mapping Meeting, Edinburgh, Scotland, February.
44. Rothschild, M. F. 1994. Pig gene Mapping. USDA/ARS Poultry Research Laboratory, East Lansing, MI, April 14.

45. Rothschild, M. F. 1994. Genome mapping in livestock: A journey, not a destination. Future Genetics for the Animal Industry, St. Louis MO, May 4.
46. Rothschild, M. F. 1994. What can be learned from our competing industries: lessons from the pig industry. Proc. Beef Improvement Federation annual meeting, Des Moines, IA, June 1.
47. Rothschild, M. F. 1994. "Synthesis." Proc. National Workshop on Animal Genome Research, Winnipeg, Canada, June 17-18.
48. Rothschild, M. F. 1994. Gene mapping and the identification of economic trait loci. PIC, Franklin, KY, June 21-23.
49. Rothschild, M. F. 1994. Integration of quantitative and molecular genetic strategies in livestock breeding: progress, prospects and issues. Am. Soc. Anim. Sci. Meeting, Minneapolis, MN, July 12.
50. Rothschild, M. F. 1994. Update on U.S. pig gene mapping activities. Int'l. Soc. Anim. Gen. Pig Gene Mapping Workshop, Prague, Czech Republic.
51. Rothschild, M. F., C. Jacobson, D. A. Vaske, C. K. Tuggle, T. Short, S. Sasaki, G. R. Eckardt and D. G. McLaren. 1994. A major gene for litter size in pigs. Proceeding of the 5th World Congress on Genetics Applied to Livestock Production, Guelph, Canada, Aug. 6-13.
52. Rothschild, M. F. 1994. Identifying quantitative trait loci (QTL) in pigs: Problems and prospects. Proc. of the National Swine Improvement Federation, Dec. 4-5.
53. Rothschild, M. F. 1995. Gene mapping: Its importance in future swine production. Proc. Iowa Feed and Nutrition Seminar, Jan. 16.
54. Rothschild, M. F. 1995. Marker assisted selection- potential for changing the face of animal agriculture. Amer. Assoc. Advanc. Science (AAAS) Annual Meeting, Atlanta, GA, Feb. 21.
55. Rothschild, M. F. 1995. Gene mapping and identification of important genes in livestock. Canadian Holstein meetings, Guelph, Canada, March 26-28.
56. Rothschild, M. F. 1995. Estrogen receptor is a major gene for litter size in pigs. Proc. National Breeders Roundtable, St. Louis, MO, May 4.
57. Rothschild, M. F. 1995. Gene mapping and marker assisted selection in livestock: Prospects and problems. Proc. Canadian Society of Animal Science Meetings, Ottawa, Canada, July 12.

58. Rothschild, M. F. 1995. Molecular genetic approaches to improved pig performance. Professional Swine Management Certification Series, Dec. 15.
59. Rothschild, M. F. 1996. Advances in gene mapping in the pig. Emerging Technologies Extension Conference, Iowa State University, Ames, IA, January 10.
60. Rothschild, M. F. 1996. Investigation of candidate genes and QTL in pigs. Brigham Young University, Provo, UT, January 11.
61. Rothschild, M. F. 1996. Investigation of candidate genes and QTL in pigs. Sequana Therapeutics, La Jolla, CA, January 16.
62. Rothschild, M.F. 1996. Gene mapping in the pig. PiGMaP Meeting, Amsterdam, Netherlands. February 24.
63. Rothschild, M. F. 1996. History of Animal breeding at ISU. Animal Science Seminar, Iowa State University, Ames, IA, March 22.
64. Rothschild, M.F. 1996. Using quantitative trait loci to improve domestic livestock. Proc. Iowa Academy of Science, April 26.
65. Rothschild, M. F. 1996. Advances in gene mapping in the pig. Korean Livestock Symposium, Korea, May 20.
66. Rothschild, M. F. 1996. Candidate genes and QTL in the pig. Seoul National Agricultural University, Seoul, Korea, May 21.
67. Rothschild, M. F. 1996. Genetics and reproduction in the pig. Proceedings Int. Congress on Animal Reproduction. Sydney, Australia, July 2.
68. Rothschild, M. F. 1996. Genetics and reproduction in the pig. Animal Breeding seminar, Iowa State University, Ames, IA, Sept. 30.
69. Rothschild, M. F., L. Wang and L. C. Christian. 1996. Unlocking the secret of pig genes. Biotechnology in the 21st Century Conference, Ames, Oct. 21.
70. Rothschild, M. F. and C. W. Ernst. 1996. Individual gene effects on meat and carcass quality. National Swine Improvement Federation, Ontario Carcass Symposium Joint Conference, Ottawa, Ontario, Canada, Dec. 5-7.
71. Rothschild, M. F. 1996. Advances in gene mapping. National Swine Improvement Federation Conference and the Ontario Carcass Appraisal Project Symposium, Dec. 6.
72. Rothschild, M. F. 1997. ISU gene mapping results. PiGMaP, Bologna, Italy, Feb. 2-3.
73. Rothschild, M. F. 1997. Molecular genetic improvement of reproduction in pig. Italian Pork Producers, Reggio Emilia, Italy, Feb. 4.

74. Rothschild, M. F. 1997. Gene mapping and QTL prospects and problems. Pfizer Drug, Croton, CT, Feb. 24.
75. Rothschild, M. F. 1997. Identification, mapping and analysis of economically important traits in pigs. Departmental Science, University of Nebraska, March 31.
76. Rothschild, M. F. 1997. Pigs, patents and peccadillos. Departmental Science, University of Nebraska, April 1.
77. Rothschild, M. F. 1997. Gene mapping prospects for the future. Undergraduate class lecture, University of California, Davis, April 24.
78. Rothschild, M. F. 1997. Identification of genes for economically important traits in the pig. An. Sci. Departmental seminar, University of California, Davis, April 24.
79. Rothschild, M. F. 1997. Identification of major genes and quantitative trait loci in the pig. Proc. National Swine Improvement Federation, Des Moines, IA, December 5.
80. Rothschild, M. F. 1998. Identification of quantitative trait loci and interesting candidate genes in the pig: Progress and Prospects. 6<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Armidale, Australia, Jan. 11-16.
81. Vincent, A. L., G. Evans, T. H. Short, O. I. Southwood, G. S. Plastow, C. K. Tuggle, and M. F. Rothschild. 1998. The prolactin receptor gene is associated with increased litter size in pigs. 6<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Armidale, Australia, Jan. 11-16.
82. Rothschild, M. F. 1998. Advances in pig genome mapping. Proceedings 8<sup>th</sup> World Congress on Animal Production, Seoul, Korea, June 30.
83. Rothschild, M. F. 1998. Major gene effects of meat and carcass quality. Proc. Korea Swine Producers Meeting, Seoul, Korea, July 1.
84. Rothschild, M. F. 1998. Advances in pig genome mapping. Proc. Korean Swine Producers Meetings, Seoul, Korea, July 1.
85. Rothschild, M. F. 1998. Mapping genes for fatness and growth on pig chromosome 13. A search in the region close to the PIT1 gene. Chromosome 13 Workshop, Auckland, New Zealand, Aug. 9.
86. Rothschild, M. F. 1998. QTL and candidate genes for fertility in the pig. Pig Blood Groups ISAG Workshop, Auckland, New Zealand, Aug. 10.
87. Rothschild, M. F. 1998. QTL and candidate genes in the pig. ISAG Pig Gene Mapping Workshop, Auckland, New Zealand, Aug. 11.

88. Rothschild, M. F. 1998. Selection for disease resistance. National Swine Improvement Federation Meetings, East Lansing, MI, Dec. 4-5.
89. Rothschild, M. F. 1999. Incorporation of biotechnology into animal breeding and genetic programs. Midwest American Society of Animal Science Meetings, Des Moines, IA, March 16.
90. Rothschild, M. F. 1999. Identification of interesting reproduction and performance candidate genes in the pig. British Pig Breeders Roundtable, Wye, England, March 25.
91. Rothschild, M. F. 1999. Genetic enhancement of agriculturally important animals. Animal Science Departmental Seminar, Iowa State University, Ames, IA, April 9.
92. Rothschild, M. F. 1999. Candidate gene analysis to detect genes controlling traits of economic interest in domestic livestock. International Symposium on Animal Breeding and Genetics, Vicosa, Brazil, Sept. 24.
93. Rothschild, M. F. 1999. Methods to determine genetic diversity. Discovery Conference, Nashville, TN, Nov. 2.
94. Rothschild, M. F. 2000. Advances in pig molecular genetics, gene mapping, and genomics. X Reunion Nacional de Mejora Genetica Animal, Caldes de Montbui, Spain, June 8-9.
95. Grapes, L. and M. F. Rothschild. 2001. Identification of genes related to reproductive traits in swine. Brazilian Reproduction World Congress, Bello Horizonte, Aug. 1-5, published in *Rev. Bras. Reprod. Anim.* 25(2):71-76
96. Tuggle, C. K., R. S. Prather, M. B. Soares, T. Casavant, D. Pomp, M. F. Rothschild, and W. Beavis. 2001. Gene discovery and functional genomics in the pig. Proc. National Swine Improvement Federation, St. Louis, MO, Dec. 6-7, 2001, p. 12
97. Rothschild, M. F. 2002. Patenting of genetic inventions in animal breeding. AB Chapman Invited Lecturer, Univ. of Wisconsin, Madison, May 5.
98. Rothschild, M. F. 2002. The role of genomics in the swine industry. Proc. 17<sup>th</sup> Congress of the International Pig Veterinary Society, Ames, IA, June 2-5, Vol 1: pp. 25-34.
99. Kim, K. S., L. L. Anderson, J. M. Reecy, N. T. Nguyen, G. S. Plastow and M. F. Rothschild. 2002. Molecular genetic studies of porcine genes for obesity International Congress on Obesity. San Paulo, Brazil. August 25
100. Rothschild, M. F. 2002. Patenting of innovations in Animal Breeding and Genetics. 7th World Congress on Genetics Applied to Livestock production. Plenary Talk 03. Montpellier, France, August 18-23.
101. Rothschild, M. F. 2002. The role of genomics in the pig industry. PIC China producers conference, Sept. 20.

102. Rothschild, M.F. 2002. Transferring biotechnology to swine genetic programs: From lab to pork. Spanish Swine Breeders Conference, Barcelona, Spain, Nov. 5. Rothschild, M. F. 2002. Approaches and limitations to measuring genetic diversity. EEC sponsored Conference on Swine Genetic Diversity, Cordoba, Spain, Nov. 7.
104. Ciobanu, D. S., S. M. Lonergan, J. W. M. Bastiaansen, M. Malek, E. J. Huff-Lonergan, G. S. Plastow and M. F. Rothschild. 2002. Evidence for new alleles in the Calpastatin gene associated with meat quality traits. 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Montpellier, France, Aug. 19-23, Communication Number 11-10.
105. Thomsen, H., J.C.M. Dekkers, H.K. Lee and M. F. Rothschild. 2002. Characterisation of quantitative trait loci for growth and meat quality in a breed cross in swine. 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Montpellier, France, Aug. 19-23, Communication Number 15-05
106. Grapes, L., R. Fernando, and M. F. Rothschild. 2002. Analysis of methods for fine mapping quantitative loci using linkage disequilibrium. 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Montpellier, France, Aug. 19-23, Communication Number 21-19
107. Chaiwong, N., J. C. M. Dekkers, R. L. Fernando and M. F. Rothschild. 2002. Introgressing multiple QTL in backcross breeding programs of limited size. 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Montpellier, France, August 19-23, Communication Number 22-08.
108. Rothschild, M. F. 2003. The pig genome, identification of genes affecting traits of economic importance in the pig. Proc. "Bridging the biotech divide" – Symposium on Emerging Issues in Biotechnology, N.C. A&T State University, Greensboro, NC, March 25.
109. Rothschild, M. F. 2003. Identification of genes for traits of economic importance in the pig. University of Mexico Veterinary School Symposium, Mexico City, Mexico, May 22.
110. Rothschild, M. F. 2003. Identification of genes for improved pig performance. PIC Mexico Pig Seminar, Puerto Vallarta, Mexico, May 24.
111. Rothschild, M. F. 2003. Identification of genes for carcass merit and meat quality. Proc. Canadian Society of Animal Science, Saskatoon, Saskatchewan, Canada, June 12.
112. Rothschild, M. F. 2003. Genetics of meat quality in pigs. Proc. Summer Swine Seminar, Saskatoon, Saskatchewan, Canada, June 13.
113. Rothschild, M.F. 2003. Protection of gene resources and free exchange of germplasm. Ensminger Conference in Gyongyos, Hungary, Hungarian Journal of Animal Science 5: (Suppl. 28-30).



114. Rothschild, M. F. 2003. Use of biotechnology and molecular genetics in swine selection programs. Ensminger Conference in Gyongyos, Hungary, Hungarian Journal of Animal Science 5: (Suppl.82-90).
115. Rothschild, M. F. 2003. Genetics of leg structure in the pig and scoring methods. PIC Health Team Veterinarian Meeting, Kansas City, KS, Oct. 22.
116. Rothschild, M. F. 2003. From a sow's ear to a silk purse: The promise of genomics. First Presidential Lecture, Iowa State University, Ames, Nov. 17.
117. Dekkers, J., J.-J. Kim, M. Malek, H. Thomsen, H. Lee, H.-H. Zhao, and M. F. Rothschild. 2003. A genome scan to detect QTL affecting growth, composition, and meat quality trait in a Berkshire x Yorkshire cross. Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 37.
118. Dekkers, J., H. Thomsen, H. Lee, M. Malek, and M. F. Rothschild. 2003. Detection of imprinted QTL in the Berkshire x Yorkshire cross. Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 76.
119. Kim, J.-J., J. Dekkers, S. Rodriguez-Zas, J. Beaver, and M. Rothschild. 2003. Joint analysis of the Berkshire x Yorkshire and Berkshire x Duroc crosses for QTL detection. In: Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 71.
120. Rothschild, M. F., D. Ciobanu, S. Lonergan, J. Dekkers, and K. Stalder. 2003. Identification of genes for carcass merit and meat quality in the pig. Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 84.
121. Rothschild, M.F. 2004. Use of molecular genetics to improve meat quality in the pig. Texas A&M University Veterinary Pathobiology departmental seminar. March 8.
122. Rothschild, M.F. 2004 Evidence for polar overdominance in pigs. British Pig breeders Roundtable, April 22.
123. Rothschild, M.F. 2004. The role of genomics. Presented at Seoul University, Seoul Korea, and Yeounam University, Deagu, Korea, May 13-16.
124. Rothschild, M.F. 2004. The pig as a model for studying human obesity. Conference on animal models to study obesity. As, Norway, June 17.
125. Rothschild, M.F. 2004. What is the value of DNA sequencing to the pork industry. Monsanto symposium in St Louis, MO, July 28.
126. Rothschild, M.F. 2004. The role of molecular genetics and genomics in animal improvement. Nordic Ministers of Agriculture annual conference. Akureyi, Iceland, August 12.

127. Rothschild, M.F. 2004. The use of biotechnology in animal improvement. Ensminger School in Seoul, Korea, October 13.
128. Rothschild, M. F. 2004. What will molecular science bring to the table. PIC Symposium, Niagara on the Lake, Canada. Symposium Proceedings. October 28.
129. Rothschild, M.F. 2004 The role of genomics in improving society. Phi Sigma Pi, Iowa State University, November 15
130. Rothschild, M.F. 2004 Use of molecular markers to improve pork production, AgroSuper in Santiago, Chile, November 17-19
131. Rothschild, M.F. 2005. Issues in Animal Patents. Iowa State Univeristy Winter Bioethics Retreat. January 7.
132. Rothschild M.F., S. J. Lamont, and J. M. Reecy . 2005. Current Status of Animal Genomics. Proceedings Annual AAAS meeting, Washington, DC. Feb 18
133. Mote B., N. Deeb, O. Southwood, and M. F. Rothschild. 2005. Applying genetic marker technology to improve sow longevity. Proc. Amer. Assoc. Swine Veterinarians, Toronto, Canada, March 5.
134. Rothschild, M.F. 2005. Advances in swine genomics. ILRI invited presentation, April 9, 2005.
135. Rothschild, M.F. 2005. The Promise of Animal Genomics. Western Kentucky University, April 21, 2005
136. Macrossan, P., B.P. Kinghorn, V.L. Wilke and M.F. Rothschild. 2005. Selective genotyping for determination of a major gene associated with cranial cruciate ligament disease in the Newfoundland dog. Proc Assoc. Advmt. Anim. Breed. Genet. 16: 346-349.
137. Rothschild, M.F. 2006. Benefits from the Pig Genome. Bio 2006 proceedings, April 4, Chicago Illinois
138. Ramos, A.M., Z. L. Hu, S. Humphray, J. Rogers, J. Reecy and M. F. Rothschild. 2006. Using large scale porcine genome sequence information to find the underlying mutations associated with chromosome 17 QTL for meat quality. 8<sup>th</sup> World Congress on Genetics Applied to Livestock Production.
139. Yu M. and M. F. Rothschild, Initial evidence for the slc44a3 gene being associated with meat color QTL on chromosome 4 in the pig, Proceedings of the 8th World Congress on Genetics Applied to Livestock Production, .August 13-18, 2006
140. Guimaraes, S. E., M. F. Rothschild, E. Huff-Lonergan, A. Sosnicki, S. Jungst, M. Yu and S. Lonergan. 2006. Association analyses of MC4R and PRKAG3 genes in a commercial pig

population with different genetic potential for growth. 8<sup>th</sup> World Congress on Genetics Applied to Livestock Production.

141. Rothschild, M.F. Sequencing the pig genome. 2006. Proc. National Swine Improvement Federation. Nashville TN Dec 7-8
142. Mote, B.E., K.J. Stalder, and M.F. Rothschild. 2006. Candidate Genes Associated with Sow Longevity. 31<sup>st</sup> Annual National Swine Improvement Federation Conference and Meeting.
143. Stalder, K. J., M. F. Rothschild, T. J. Baas, N. Berry, and T. V. Serenius. 2005. Genetics of feet and leg soundness. 2005 Pork Academy Conference Proc. CD-ROM. National Pork Board, Clive, IA.
144. Stalder, K., M. Knauer, T. Serenius, L. Karkiker, M. Rothschild. B. Mote, J. McKean, T. Baas, and J. Mabry. 2006. Sow Longevity – What We Know. Iowa State University Disease Conference, Ames, IA, November, 2006.
145. Rothschild, M.F. 2006. Cracking the Pig Genomic Pig Bank. Missouri Governor's Conference on Agriculture. Osage Beach, December 10.
146. Rothschild, M.F. 2006. Sequencing the Swine Genome: Prospects and problems. Proceeding of the National Swine Improvement Federation annual meeting.
147. Rothschild, M.F. 2008. Swine genome sequencing, gene discovery and genomic selection: What will the future bring? Proceedings of the 14<sup>th</sup> Conference on Animal Genetics and Breeding in China
148. Onteru, S.K., B. Fan, B. Mote, T. Serenius, M. Nikkilae, K. J. Stalder , M.F. Rothschild. SNP discovery in genes affecting leg health traits in pigs. 2007. Proc. International Symposium on Animal genomics for Animal Health, Paris, France, Oct. 23-25.
149. Rothschild, M.F. 2007. An Update on Sequencing the Swine Genome: Opportunities and Challenges. Proceeding of the National Swine Improvement Federation annual meeting Dec 6-8.
150. Stalder, K. J., L. A. Karkiker, A. K. Johnson, M. F. Rothschild, and T. Serenius. 2008. Sow Longevity: Genetic and phenotypic selection considerations. Proc. Amer. Assoc. Swine Vet. Annual Conf. – Reproduction Workshop. San Diego, CA. March, 2008. pp. 33-39
151. Stalder, K., and M. Rothschild. 2008. Pork production improvement expected from the use of new markers. Western Hog Journal, Alberta Pork, Edmonton, Alberta, Canada, 30(2):33-35.
152. Rothschild, M.F. 2008. Swine Genetic Challenges. One man's opinion. Proceeding of the National Swine Improvement Federation annual meeting Dec 5-6

153. Rothschild, M.F. 2009. New genetic tools, opportunities and discoveries. Chinese Animal breeding Society national meetings.
154. Rothschild, M.F. 2009. Livestock and poverty alleviation. Animal Think Tank, November, Ames, IA
155. Rothschild, M.F. 2009. SNP association trials. UK Sequencing meeting
156. Rothschild, m.F. 2009. CSRL and poverty alleviation in Uganda, University of Nebraska departmental seminar Rothschild, M.F. 2009. New tools and genomics discoveries in the pig. University of Nebraska Depart. of animal Science animal breeding seminar, November
157. Rothschild, M.F. 2010. Genetic and Genomic Technologies from A-Z. AGBU invites seminar, Armidale Australia October 2010
158. Rothschild, M.F. 2011. Genetic and Genomic Technologies from A-Z. Iowa Pork Congress, Des Moines IA Jan 21.
159. Onteru, S.K. and M.F. Rothschild. 2011. Genetic and genomic control of reproduction in the pig. Int Conference on Frontiers in Reproductive Biology Karnal , India Feb 11.
160. Rothschild, M.F. 2011 Livestock genomics: Old McDonald's farm isn't what it used to be. University of California, Davis, California
161. Rothschild, M.F. 2011 Livestock genomics: Old McDonald's farm isn't what it used to be. Jerusalem, Israel
162. Rothschild, M.F. 2011. Genomic Solutions to Animal Improvement. Wuhan China
163. Rothschild,, M.F. 2011. Genomic Solutions to Animal Improvement Beijing, China
164. Rothschild, M.F. 2011. Goat genomics and Feed the Future. Nairobi, Kenya
165. Rothschild M.F. and G.S. Plastow. 2014. Approaches to improve production by small holders. Ensminger conference, Lima Peru Nov 4-6.
166. Huson H.J., T.S. Sonstegard, J. Silverstein, M.J. Woodward-Greene, C. Masiga, F. Muchadeyi, J. Rees, B. Sayre, A. Elbetagy, M. Rothschild, F.D. Mujibi, S. Kemp, L. Collie, P.Ajmone-Marsan, P. Crepaldi, S. Abegaz, J. Soelkner, C.P. Van Tassell, AGIN. 2014. Characterization of African Goat Populations to Prioritize Conservation & Production Efforts for Small-holder Farmers in Sub-Saharan Africa 10<sup>th</sup> World Congress of Genetics Applies to Livestock Production. Vancouver Canada
167. Thekkoot, D. M., R. A. Kemp, M. F. Rothschild, G. Plastow and J. C. M. Dekkers. 2014. Identification of genomic regions associated with lactation performance in Yorkshire sows, 10th World Congress of Genetics Applied to Livestock Production Vancouver, Canada

168. Kim, E.-S, R.R. Freixedes, R.N. Pena, T.J. Baas, J. Estany and M.F. Rothschild. 2014. Identification of Signatures of Selection for Intramuscular Fat in Two Duroc Populations. 10<sup>th</sup> World Congress on Genetics Applied Livestock Production, Vancouver, Canada.
169. Plastow, G. S., and M.F. Rothschild. 2014. Modernizing pig breeding in China – A North American perspective and opportunities for partnership. Proceedings “The International Forum on Farm Animal Breeding - Status and Perspectives” Xian 27 July 2014.
170. Lamont S.J., D.J. Coble, A. Bjorkquist, M. F. Rothschild, M. Persia, C. Ashwell and C. Schmidt. 2014. Genomics of heat stress in chickens. Proceedings 10<sup>th</sup> World Congress on Genetics Applied Livestock Production, Vancouver, Canada.
171. Engle, T.B., E.E. Jobman, T.W. Moural, A.M. McKnite, S.Y. Barnes, E.H. Davis, J.K. Qiu, J.W. Bundy, J.K. Tart, T.P. Johnson, M.F. Rothschild, J.A. Galeota, R.K. Johnson, G.S. Plastow, S.D. Kachman, D.C. Ciobanu, Genome-wide analysis of the differential response to experimental challenges with Porcine Circovirus 2b, Proceedings, 10th World Congress of Genetics Applied to Livestock Production, 17-22 August, 2014, Vancouver, BC.
172. Rothschild M.F. 2016. This little piggy went to market: applications of genomics to improved health for sustainable pig production. EAAP meetings in Belfast Ireland
173. Rothschild M.F. 2016. Applications of genomics to address adaptation of livestock to stressful environments to prevent food insecurity in the developing world. 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.
174. Rothschild M. F. 2016. Applications of Technology for Small Holders’ Livestock to Meet Global Food Production, Ensminger Conference, May 16-17, 2017, Honduras
175. Rothschild M.F. The Case for Genomics in Racing Performance: Lessons Learned from the Livestock Industries. UK Thoroughbred breeders Association Meetings June 2016
176. Rothschild, M.F. 2016. Applications of genomics to address adaptation of livestock to stressful environments to prevent food insecurity in the developing world. Harbin China September 25, 2016
177. Rothschild M.F. 2016. This little piggy went to market: applications of genomics to improved health for sustainable pig production. Harbin China September 25, 2016
178. Rothschild, M.F. 2016. Applications of dairy genomics to prevent food insecurity in the developing world. New Delhi, India August 25, 2016
179. Bertolini F., J. Chinchilla Vargas, J.R. Khadse, A. Juneja, P. Deshpande, V. Potdar, K. Bhave, A.B. Pande and M.F. Rothschild. 2018. Marker discovery and associations with beta-carotene content in Indian dairy cattle and buffalo breeds. World Congress on Quantitative Genetics Applied to Livestock Production, 11-16 February, Auckland, New Zealand.
180. Bertolini F., G. Schiavo, G. Galimberti, S. Bovo, M. D’Andrea, M. Gallo, L. Buttazzoni, M.F. Rothschild and L. Fontanesi. 2018. Getting to the meat of the matter: Identification of

genomic regions associated with dry-cured ham quality and production traits in Italian Duroc pigs. World Congress on Quantitative Genetics Applied to Livestock Production, 11-16 February, Auckland, New Zealand.

181. Walugembe M., F. Bertolini, C.M.B Dematawewa, A. Elbeltagy, C. Schmidt, S.J. Lamont and M.F. Rothschild. 2018. Genomic analysis of chicken ecotypes from Brazil, Sri Lanka, and Egypt: impact of different environmental conditions. World Congress on Quantitative Genetics Applied to Livestock Production, 11-16 February, Auckland, New Zealand.
182. Mwacharo J.M., AR Elbeltagy, E-S Kim, AM Aboul-Naga, B Rischkowsky and, MF Rothschild. 2018. Genome-wide signatures for grazing stress tolerance in Egyptian local goats under dryland environments. World Congress on Quantitative Genetics Applied to Livestock Production (in press) 11-16 February, Auckland, New Zealand
183. Rowland K., J. Hsieh, C.M. Ashwell, M. E. Persia, M. F. Rothschild, J.C. M. Dekkers and S.J. Lamont. 2018. Genomic analysis of egg quality, production, and blood chemistry traits in heat stressed white laying hens. World Congress on Quantitative Genetics Applied to Livestock Production (in press). 11-16 February, Auckland, New Zealand
184. Stock, J.D., J.A. Calderón Díaz, M.F. Rothschild, and K.J. Stalder. 2018. Comparison of two evaluation methods for feet and leg conformation traits at 100 days of age in replacement gilts. Accepted for presentation at 11<sup>th</sup> World Congress on Genetics Applied to Livestock Production, 11 – 16 February, Auckland, New Zealand
185. Rothschild, M.F. 2019. Using genetics and genomics to design the market pig. Proceedings of the Ensminger International Conference. Pretoria. S. Africa.
186. Rothschild, M.F. and G. Plastow. 2019. Imagining the future of pig production. Proceedings of the Ensminger International Conference. Pretoria. S. Africa.

### **Extension Publications and Invited Talks**

1. Rothschild, M. F. 1979. Do daughters of high PD bulls have more health and reproductive problems? Cooperative Extension Service "Cow Moos" Newsletter, University of Maryland.
2. Rothschild, M. F. and L. L. Christian. 1981. Alcohol and its relationship to death losses and muscle quality in stress-susceptible and stress-resistant pigs. Iowa State University Pork Producers Day Proceedings, AS-528T.
3. Christian, L. L. and M. F. Rothschild. 1981. Performance and carcass characteristics of normal, stress-carrier and stress-susceptible swine. Iowa State University Pork Producers Day Proceedings, AS-528F.
4. Christian, L. L. and M. F. Rothschild. 1982. Genetic and developmental abnormalities of pigs. Iowa State University Pork Producers Day Proceedings, AS-535H.

5. Rothschild, M. F. 1982. Tissue typing and disease resistance in swine. Iowa State University Pork Producers Day Proceedings, AS-535-0.
6. Rothschild, M. F. and L. L. Christian. 1983. Selection for improved front feet and leg soundness. Iowa State University Pork Producers Day Proceedings, AS-539C.
7. Rothschild, M. F., L. Young, C. Christians and J. Wheat. 1984. Swine genetic abnormalities. Pork Industry Handbook Fact Sheet.
8. Rothschild, M. F., C. M. Warner and L. L. Christian. 1984. Genetic differences of pigs in levels of immune response following vaccination with AR and PRV vaccine. Iowa State University Swine Research Reports, AS-549M.
9. Rothschild, M. F. Selection for disease resistance. 1984. Veterinary Medicine Update (Cont. Educ.), Ames, Iowa, Nov.
10. Rothschild, M. F. Genetics of leg conformation. 1984. Veterinary Medicine Update (Cont. Educ.), Ames, Iowa, Nov.
11. Rothschild, M. F. and C. M. Warner. 1985. DNA typing: A new tool for swine breeding. Iowa State University Swine Research Reports, AS-570-K.
12. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner and H. T. Hill. 1985. Maternal genetic, maternal environment and breed effects on immune response following vaccination with AR and PRV vaccine. Iowa State University Swine Research Reports, AS-570-I.
13. Meeker, D. L., J. Li, M. F. Rothschild, L. L. Christian and C. M. Warner. 1985. Response to selection for immune response following vaccination with atrophic rhinitis vaccine. Iowa State University Swine Research Reports, AS-570-H.
14. Lawrisuk, L., M. F. Rothschild, L. L. Christian and R. F. Ross. 1985. Levels of *Mycoplasma hyosynoviae* infection in lines of pigs selected for front leg soundness. Iowa State University Swine Research Reports, AS-570-J.
15. Blanchard, W. W., L. L. Christian and M. F. Rothschild. 1986. Predicting sale price of centrally tested Hampshire boars. Iowa State University Swine Res. Rep. AS-570-P.
16. Boggess, M. and M. F. Rothschild. 1986. Economic and genetic effects of reciprocal translocations in boars. Iowa State University Swine Research Reports. AS-570-N.
17. Lu, M., L. L. Christian and M. F. Rothschild. 1986. Evaluation of crossbreds female replacement systems. Iowa State University Swine Research Reports, AS-570-O.

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