

CURRICULUM VITAE

Ayman Sabry, Ph.D.

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EDUCATION

- 1985 **BSc. Animal Production**, Faculty of Agriculture, Monouefia University, Monouefia, Egypt
- 1991 **MSc. Animal breeding**, Faculty of Agriculture, Cairo University, Cairo, Egypt
Thesis: *Effect of Crossing on Some Economical Traits in Cattle*;
- 2002 **Ph.D. Animal breeding & Genetics**, Agricultural University of Norway, Ås, Norway
- Project title: *The use of Genetic Markers to Identify Quantitative Trait Loci*;

THESIS

In my Ph.D. thesis I focused on investigating some theoretical issues in linkage mapping and QTL fine mapping as well as the detection of QTL affecting clinical mastitis and somatic cell count in dairy cattle.

WORKING EXPERIENCE

In the period 10/2005- NOW Researcher, at the Academy of the Scientific Research & Technology. Cairo, Egypt.

I am involved in mapping QTL of economic traits in the Egyptian Buffalo.

In the period 10/2002 to 09/2005 Postdoctor researcher, at the Department of Genetics & Biotechnology , Danish Institute of Agricultural Sciences, Foulum, Denmark

I was involved in mapping QTL affecting mastitis resistance in Nordic Cattle (publication is currently prepared). This work was done in collaboration with research groups from MTT Finland, SLU Sweden and Roslin Great Britain. I also have got a patent on *DNA-testing for QTL for mastitis resistance at Chromosome 9 in Dairy Cattle*.

In the period 08/1998 to 09/2002 Ph.D. Student. at the Department of Animal Science, Agricultural University of Norway, Ås, Norway, where I started in August 1998.

I carried out research on linkage analysis and QTL mapping. From February 2001 until now, I have worked on my Ph.D. project at the Department of Animal Breeding and Genetics, Danish Institute of Agricultural Sciences. During this period I my Ph.D. I have developed good skills in programing and computing works. Furthermore, I have worked closely with variance components finemapping methods. Moreover, I co-authored a preliminary report on the detection of QTLs for health traits in pigs.

In the period 07/1992 to 07/1998 Research Assistant, Cattle information system, Faculty of Agriculture, Cairo University, Egypt.

I was involved in establishing the first recording system in Egypt for small holders as well as the large privet holders.

In the period 09/1985 to 10/1991 Agricultural Engineer: South Tahrir Agricultural Company, Bohira, Egypt.

During this period I experienced the field work in the state farms in semi-desert regions. These farms comprised large herds (≈ 1000 heads) of Egyptian native cattle, buffalo and sheep. I gained quite experience in farm managing, reproductive and veterinary treatment.

COMPUTER SKILLS

- I have good programming skills using Fortran 90/95, Perl and R.
- I am also familiar with the use of the DMU and SAS statistical packages, as well as various Microsoft products, L^AT_EX and the emacs editor.
- I can work with Windows-based as well as Unix & Linux operating systems.

LANGUAGE KNOWLEDGE

Arabic native
English speak fluently and read & write with high proficiency

ATTENDED CONFERENCES

- 12th Conference of the Egyptian Society of Animal Production (**Invited Speaker**). Mansoura, Egypt. 30 Nov.–2 Dec.2004.
- 55th Ann. Meet. EAAP, Bled, Slovenia,September 4–9, 2004
- 7th World Congress on Genetics Applied to livestock, Montpellier, France, August, 19–23, 2002.
- 52nd. Ann. Meet. EAAP, Budapest, Hungary, August, 26-29, 2001.
- Nordic Workshop on fine mapping of QTL in cattle, Lillehammer, Norway. January 25–27, 2001.
- 6th QTL/MAS workshop September 7–8, 2000, Tune, Denmark.

THEORETICAL COURSES

I. Animal Breeding & Genetics

Course Title	Place &Date	Instructor
Advanced computational methods in animal breeding	Dept. Animal Breeding & Genetics, Danish Institute of Agricultural Science, 2004	Ignacy Misztal
Estimation of genetic parameters using likelihood and Bayesian methods	Animal Breeding Center Denmark,2004	Daniel Sorensen
Quantitative genetics in animal breeding	Dept. Animal Science, University of Helsinki,2003	Bruce Walsh & William Muir
Quantitative Trait Locus Mapping I	Bioinformatics Research Center N. Carolina State Univ. 2001	
Quantitative Trait Locus Mapping II	Bioinformatics Research Center N. Carolina State Univ. 2001	
Use and analysis of QTL effects in animal breeding	Internordic postgraduate course, Denmark, 2000	Christian Stricker
Statistical Genomics	Dept. Animal Science, Agricultural University of Norway,2000	Tormod Ådnøy
QTL markers and mapping	Univ. of Guelph , Ontario,Canada, 2000	Michel Georges
Statistical approaches for the utilisation of DNA	Univ. of Guelph , Ontario,Canada, 2000	Luc Janss
Linear Models in Animal Breeding (block II)	Dept. Animal Science, Agricultural University of Norway,1999	Tormod Ådnøy
Genetic markers in livestock improvement	Dept. Animal Science, Agricultural University of Norway ,1998	Luis Gomez-Raya

II. Statistics

Course Title	Place &Date	Instructor
Analysis of Variance & Design Experiment II	Dept. Mathematics Agricultural University of Norway 1998	
Statistical Data Analysis	Dept. Mathematics, Agricultural University of Norway 1999	
Generalized Linear Models	Dept. Animal Science, Iowa State University,2001	

REFERENCES

These persons are familiar with my professional qualifications and my character:

Dr. Per Madsen

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Dr. Bernt Guldbrandtsen

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LIST OF PUBLICATIONS

I. Published & Submitted Articles

I. Articles

- * **Ayman Sabry** and Luis Gomez-Raya, 2007.
Heterogeneity of bulls recombination fraction using the granddaugh-
ter design (Submitted to J. Animal Breeding & Genetics)
M.S. Lund, G. Sahana, L. Andersson-Eklund, N. Hastings, A. Fernan-
dez, N. Schulman, B. Thomsen, S. Viitala J.L. Williams, **A. Sabry**,
H. Viinalass, and J. Vilkki(2007)
Joint Analysis of Five Chromosomes Affecting Clinical Mastitis and
Somatic Cell Score in Three Nordic QTL Experiments(Submitted to
J. Animal Science)
- * Elsaid, R., **Sabry, A.**, Lund, M. & Madsen, P., 2005. Genetic Anal-
ysis of Somatic Cell Score in Danish Dairy Cattle Using Random Re-
gression Test-Day Model. Proc. EAAP, Uppsala, Sweden, June. Book
of abstracts 11, 48.
- * **Sabry, A.**, Lund, M.S., Guldbbrandtsen, B., Thomsen, B. & Madsen,
P., 2004. Mapping QTL affecting somatic cell count (SCC) using a
longitudinal model in Danish dairy cattle. Book of Abstracts from
55th EAAP, Bled, Slovenia, 22.
- * Vilkki, J., Schulman, N., Anderson-Eklund, L., Fernandez, A., Vi-
inalass, H., **Sabry, A.**, Williams, J.L., Hastings, N., Veerkamp, R.F.,
Eding, H.J. & Sando Lund, M., 2004. New breeding tools for improv-
ing mastitis in European dairy cattle. Book of Abstracts from 55th
EAAP, Bled, Slovenia, 13.
- * Lund, M.S., Vilki, J., Andersson-Eklund, L., Williams, J.L., Janns,
L., Fernandez, A., Viinalass, H., **Sabry, A. M.**, Schulman, N., Hast-
ings, N. & Eding, H.J., 2004. Strategy and statistical methods in
fine mapping QTL affecting clinical mastitis and somatic cell count.
9th Quantitative Trait Locus Mapping and Marker-Assisted Selection
Workshop, Rostock. Schriftenreihe 14, 27. ISSN 0946-1981.
- * **Sabry, A.**, 2004. Utilization of Molecular Technology in The Genetic
Improvement of Livestock. *Egyptian. J. Anim. Prod.* **41**Suppl: 1-6.
- * Helge Klungland, **Ayman Sabry**, Bjorg Heringstad, Hanne Gro Olsen,
Luis Gomez-Raya, Dag Inge Vage, Ingrid Olsaker, Jorgen Odegard,
Gunnar Klemetsdal, Nina Schulman, Johanna Vilkki, John Ruane,
Monica Åsland, Knut Rønningen, and Sigbjørn Lien 2001. Quantita-
tive trait loci affecting clinical mastitis and somatic cell count in dairy
cattle. *Mammalian Genome*, **12**: 837-842
- * **Ayman Sabry**, Mogens Sandø Lund and Bernt Guldbbrandtsen,2002.
Robustness of a variance components QTL fine mapping method. (*In
the Proceeding of 7th World Congress on Genetics Applied to livestock,
Montpellier, France, August, 19-23*)
- * **Ayman Sabry**, Mogens Sandø Lund, and Bernt Guldbbrandtsen,
2001. Robustness of a fine mapping method of QTL based on closely
linked markers. Proc. 52nd. Ann. Meet. EAAP, Budapest, Hungary,
August,26-29,2001.

- * H. G. Olsen, L. Gomez-Ray, D. I. Våge, I. Olsaker, H. Klungland, M. Svendsen, T. Ådnøy, **A. Sabry**, G. Klemetsdal, N. Schulman, G. Thaller, W. Krämer, K. Rønningen and S. Lien. 2002, A Genome Scan for Quantitative Trait Loci Affecting Milk Production in Norwegian Cattle. *J. Dairy Sci.* **85**: 3124-3130.
- * **Ayman Sabry**, Sigbjørn Lien and Luis Gomez-Raya, 2000. Genome-wide testing of heterogeneity of the recombination fraction using half-sib families and single sperm typing. *In the Proceeding of 6th QTL/MAS workshop September 7-8, 2000, Tune, Denmark*

II. Patent

- * DNA-Test for QTL affecting mastitis resistance at Dairy Cattle.2006 Christian Bendixen, Mogens Sandø Lund, Søren Svendsen, Bo Thomsen, Benta Flügel Majgren, Goutam Sahana, **Ayman Sabry**, Peter Sørsen, Ingrid Lena Andersson-Eklund, Helmi Johanna Vilkki, Terhi katariina Iso-Touru, Sirja maria Viitala, Nina Ferdrika Schulman, Nicloa Hastings, John Woolliam Williams, John Woolliams, and Ana Fernandez.

III. Theses

- * **Ayman Sabry**, 2002. The use of Genetic markers to Identify Quantitative Trait Loci. Ph.D. Animal Science Department, Agricultural of Norway, Ås, Norway
- * **Ayman Sabry**,1991. Effect of crossing on some economical traits in cattle. M.Sc. Dept. of Animal Science, Faculty of Agriculture, Cairo University, Egypt

Cairo, May 6, 2007