

CURRICULUM VITAE

PERSONAL INFORMATION

Enrico Carlo Santus

Born in Brescia 6 April 1965

WORK EXPERIENCE

2021 - present

General manager of ANAJER Italian Jersey Breeder's Association

2020 - present

President of "Unione per i servizi alla selezione e biodiversità" (Synergy)

2018 - present

Chairman of Interbull SNP MACE working group

2009 - present

Chairman of INTERGENOMICS management committee

2005 - present

General manager of the "Disolabruna" consortium among cheese factories in Italy

1999 –present

General manager of ANARB and responsible for the "la razza Bruna" magazine

2009-2010

Chairman of ANAFI working group on genetic evaluations

2008-2012

Secretary general of The European Federation of Brown Swiss Breeders

2004-2014

Member of the board of Agronomist council under the supervision of the Italian Ministry of Justice

2001 and again in 2011

Chairman of the Interbull working group on business model for Type evaluation

1997- 1998

Chairman of the Universities / Industry working group on genetic improvement

1996 - 2020

Member of the Interbull Steering Committee

1996-1998

Head of the IT dept at ANARB

1992-1998

Head of the Genetic services dept at ANARB

1993-1998

Head of the Experimental station at ANARB

EDUCATION

1992

Cornell University (USA). Master of Science Thesis title "Genetic Parameters of Italian Brown Swiss for Levels of Herd Yield"

1988

UCSC University Piacenza (Italia). Graduated in Agronomy with Zootecnical specialization with top score of 110/110 cum laude, Thesis title: "Genetic evaluation of type traits in dairy cattle using BLUP techniques"

1987

Dairy cattle Type appraisal certification

1983

Graduated as Agronomic technicians in brescia

OTHER COURSES

2016

Harvard University edX Verified Certificate "High-Dimensional Data Analysis"

Harvard University edX Verified Certificate "Statistical Inference and Modeling for High-throughput Experiments"

2015

University of Melbourne Coursera Honor Certificate "Epigenetic Control of Gene Expression"

Duke University Coursera Verified Certificate "Introduction to Genetics and Evolution"

Harvard University edX Honor Code Certificate "Data Analysis for Life Sciences 2: Introduction to Linear Models and Matrix Algebra"

Università di Piacenza "An Introduction To Bayesian Analysis And Mcmc" -

2014

Harvard University edX Honor Code Certificate "Data Analysis for Life Sciences 1: Statistics and R"

2013

Università di Piacenza "Gene2Farm Winter School 2013: Theory and Methods for Genomic Prediction"

Università di Piacenza "Innovagen Winter School 2013"

2012

ANARB "R fundamentals"

ANARB "Python fundamentals"

Language skills

Native

Italian

Fluent

-

English

Programming skills

Python

R

SAS

Fortran

Scientific Papers

2020

New Insights in Cheese Yield Capacity Between Italian Brown and Italian Friesian Milks in the Production of High Moisture Mozzarella

January 2020 Food Technology and Biotechnology 58(1)

DOI: 10.17113/ftb.58.01.20.6386

2019

Heat stress in Italian Brown Swiss

June 2019

Conference: 23rd ASPA Congress At: Sorrento

2018

TESTKAPPA 2.0 NUOVA VERSIONE DEL TEST ELISA PER LA MISURAZIONE DEL CONTENUTO DI k-CASEINA B NEL LATTE DI MASSA BOVINO

September 2018

DOI: 10.13140/RG.2.2.15686.93765

Conference: 6° Congresso lattiero-caseario AITeL Associazione Italiana Tecnici del Latte

2018

LATTeCo: Migliorare Biodiversità, Benessere e Ambiente garantendo Redditività

September 2018

DOI: 10.13140/RG.2.2.12331.49445

Conference: 6° Congresso lattiero-caseario AITeL Associazione Italiana Tecnici del Latte

2018

Exploiting the network-based association weight matrix approach for the genetic dissection of milk nitrogen fractions in dairy cattle

August 2018

Conference: World Congress on Genetics Applied to Livestock Production At: Auckland, New Zealand

2018

Integrating genomic information and large-scale FTIR-based phenotyping for the genetic improvement of cheese-making traits in Brown Swiss cattle

June 2018

Conference: 2018 Annual Meeting of the American Dairy Science Association® (ADSA®) At: Knoxville, Tennessee

2016

Genome-wide association study for cheese yield and curd nutrient recovery in dairy cows
November 2016 *Journal of Dairy Science* 100(2):1259-1271
DOI: 10.3168/jds.2016-11586

2016

Prinsen RTMM, Strillacci MG, Schiavini F, et al. A genome-wide scan of copy number variants using high-density SNPs in Brown Swiss dairy cattle. doi:10.1016/j.livsci.2016.08.006

2016

Jorjani H, Zumbach B, Santus E, et al. Joint Genomic Evaluation of BSW Populations. *Search*. 2009;(September 2016):1-6.

2016

Use of multivariate statistical analyses to preselect SNP markers for GWAS on residual feed intake in dairy cattle. C. Dimauro, E. Manca, A. Rossoni, E. Santus, M. Cellesi and G. Gaspa ASAS – ADSA – CSAS – WSASAS Joint Annual Meeting JULY 19 - 23, 2016 SALT LAKE CITY, UTAH

2013

Mancini G, Nicolazzi EL, Valentini A, et al. Association between single nucleotide polymorphisms (SNPs) and milk production traits in Italian Brown cattle. *Livest Sci*. 2013;157

2013

McClure M, Kim E, Bickhart D, et al. Fine Mapping for Weaver Syndrome in Brown Swiss Cattle and the Identification of 41 Concordant Mutations across NRCAM, PNPLA8 and CTTNBP2. *PLoS One*. 2013;8(3). doi:10.1371/journal.pone.0059251.

2014

Dolezal MA, Gredler B, Rossoni A, Seefried F, Schiavini F, Strillacci MG, Jorjani H, Santus E, Bagnato A Genome Wide Association Analysis on imputed high density SNP genotypes in the Italian and Swiss Brown Swiss dairy cattle population for milk somatic cell count. *Plant & Animal Genomes XXI Conference*, 11-15.1.2014, San Diego, CA

2014

Abstract : Genome Wide Association Analysis on Imputed High Density SNP Genotypes in the Italian and Swiss Brown Swiss Dairy Cattle Population for Milk Somatic Cell Count (*Plant and Animal Genetics* (January 2014):2014-2016.

2010

Nicolazzi E, Negrini R, Macciotta N, et al. Integrating Population Genomics and Genomic Selection. 2010;(41):39-42.

2009

Crepaldi P, Nicoloso L, Milanesi E, Colli L, Santus E, Negrini R. Towards the understanding of bull fertility: Phenotypic traits description and candidate gene approach. *Ital J Anim Sci*. 2009;8(SUPPL. 2):60-62. doi:10.4081/ijas.2009.s2.60.

2009

Ajmone-Marsan P, Marino R, Perini D, et al. Analysis of BTA6 in Bruna Italiana and Pezzata Rossa cattle assayed with 2,535 SNPs. 8:2009.

2007

Bagnato, A. Rossoni, C. Nicoletti and E. Santus Milkability and temperament MACE correlation and pilot study results in dairy cattle populations Proceedings of the interbull meeting Dublin, Ireland august 23-26, 2007 bulletin no. 37, 2007

2007

Rossoni, C. Nicoletti and E. Santus Genetic evaluation for body condition score in Italian Brown Swiss dairy cattle Proceedings of the interbull meeting Dublin, Ireland august 23-26, 2007 bulletin no. 37,

2007

Maltecca, A. Rossoni, C. Nicoletti, E. Santus, K. A. Weigel and A. Bagnato Estimation of Genetic Parameter for Perinatal Sucking Behavior of Italian Brown Swiss Calves J. Dairy Sci. 90:4814–4820

2007

Khatib H, Rosa GJM, Weigel K, Schiavini F, Santus E, Bagnato A. Additional support for an association between OLR1 and milk fat traits in cattle. Anim Genet. 2007;38(3):308-310. doi:10.1111/j.1365-2052.2007.01584.x.

2007

Maltecca C, Rossoni A, Nicoletti C, Santus E, Weigel KA, Bagnato A. Estimation of genetic parameters for perinatal sucking behavior of Italian Brown Swiss calves. J Dairy Sci. 2007;90(10):4814-4820 jds.2007-0183.

2007

Bagnato a, Rossoni a, Nicoletti C, Jakobsen J, Santus E. Milkability and Temperament MACE Correlation and Pilot Study in Dairy Cattle Populations. 2016;(August 2007):1-3.

2007

Bagnato A, Schiavini F, Mattina V La, Santus E, Soller M, Lipkin E. Mapping QTL affecting milk somatic Cell count in the Italian Brown Swiss dairy Cattle – the QuaLAT Project. 2007;6:43-45.

2007

Rossoni A, Nicoletti C, Bonetti O, Testa L, Santus E. Genetic evaluation for body condition score in Italian Brown Swiss cattle. Ital J Anim Sci. 2010;6(1s). doi:10.4081/ijas.2007.1s.198.

2005

Bagnato A, Schiavini F, Dolezal M, et al. The BovMAS Consortium: Identification of QTL for milk yield and milk protein percent on chromosome 14 in the Brown Swiss breed. Ital J Anim Sci. 2005;4(SUPPL. 2):13-15.

2005

Ghiroldi S, Nicoletti C, Santus E, Rossoni a, Bagnato a. ITE : The New Selection Index for the Italian Brown Swiss. Vet Med. 2005;(January).

2005

Santus E, Ghiroldi S. Milkability Genetic Evaluation in Brown Swiss : An International approach. (January 2005):25-27.

2004

Bagnato A., Schiavini F., Dubini S., Rossoni A., Maltecca C., Santus E., Medjugorac I., Solkner, Lipkin E., Soller M. The BovMAS Consortium: A

Complete Genome Scan of Brown Swiss Cattle for Milk Yield and Protein Percent Using Selective DNA Pooling With Milk samples. 29th International Society for Animal Genetics September 11-16, 2004 Tokyo, Japan.

2001

Bagnato A, Bagnato A, Ghioldi S, Santus E. Type Traits MACE Correlation Coefficients Estimation in Brown Swiss. 2001;(January).

1999

Cassandro M, Ghioldi S, Bagnato A, Santus E Genetic evaluation of longevity in Italian Brown Cattle Breed Genetic evaluation of longevity in Italian Brown Cattle Breed. 2016;(May 1999).

1998

Paper C, Miglior F, Dairy C, Anarb ES. WATER BUFFALOES : A PROPOSAL FOR INTERNATIONAL EXCHANGE AND. 2016;(June 1998):2-3.

1997

M. Cassandro , F. Miglior , P. Carnier , G. Bittante F. Canavesi, E. Santus , G. Banos Effect of standardisation of within country- year sire variance of deregressed proofs on international evaluations Effect of Standardisation of Within Country-Year Sire Variance of De-Regressed Proofs on International Evaluations; (January 1997).

1993

Santus EC, Everett RW, Quaas RL, Galton DM. Genetic Parameters of Italian Brown Swiss for Levels of Herd Yield. J Dairy Sci. 1993;76(11):3594-3600.