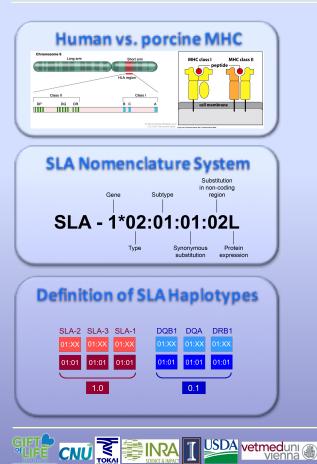


by the SLA Nomenclature Committee



# **Background & Objectives**

A systematic nomenclature for the genes, alleles and haplotypes of the swine MHC is critical to the research in swine genetic diversity, immunology, health, vaccinology, and organ or cell transplantation. The Swine Leukocyte Antigen (SLA) system is among the most well characterized MHC systems in non-human animal species. To date, there are 223 class I and 212 class II alleles officially designated, together with 60 class I (1-2-3) and 49 class II (DRB1-DQB1) haploty pes at the high-resolution (allele) level.

Recent evidence has suggested certain loci in the SLA system previously recognized as pseudogenes (e.g. SLA-9, SLA-11, DQB2 and DOB2) may be expressed at transcript level for some haplotypes. Continuous efforts on characterizing SLA alleles and haplotypes and exploring their diversity in various pig populations will deepen our understanding of the architecture and polymorphism of the SLA system and their role in disease, vaccine and allo- or xenograft responses.



#### **SLA Nomenclature Committee**

- Acts as a gatekeeper for maintaining high quality standards of accepted sequences
- Periodically updates of the IPD-MHC SLA Database
- Works with journal editors to make official nomenclature as a requirement for non-human MHC sequences

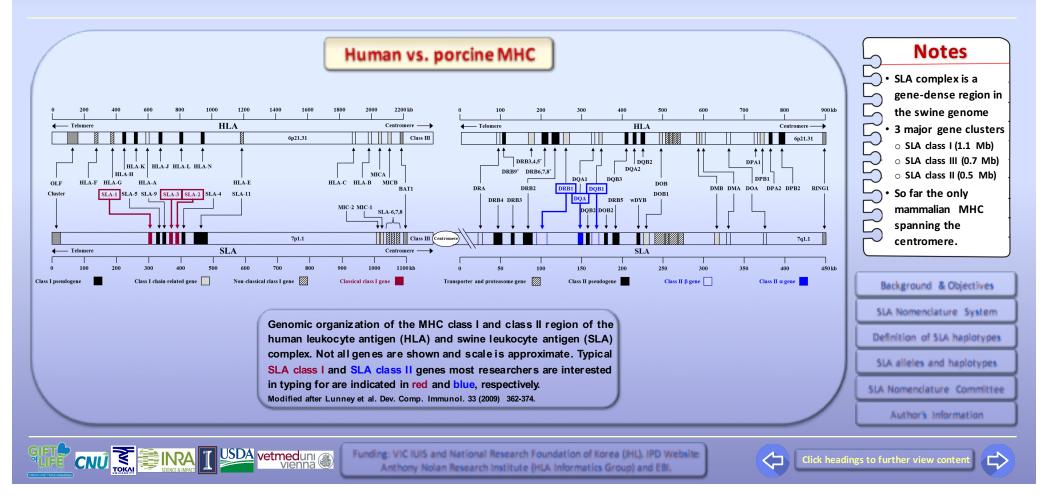


Funding: VIC IUIS and National Research Foundation of Korea (HL). IPD Website Anthony Nolan Research Institute (HLA Informatics Group) and EBI.

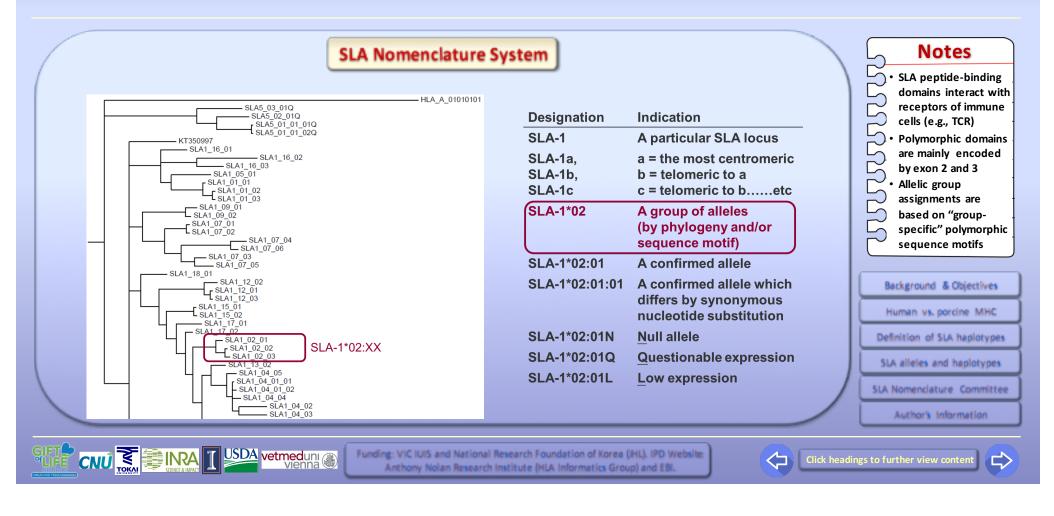
Click headings to further view conten



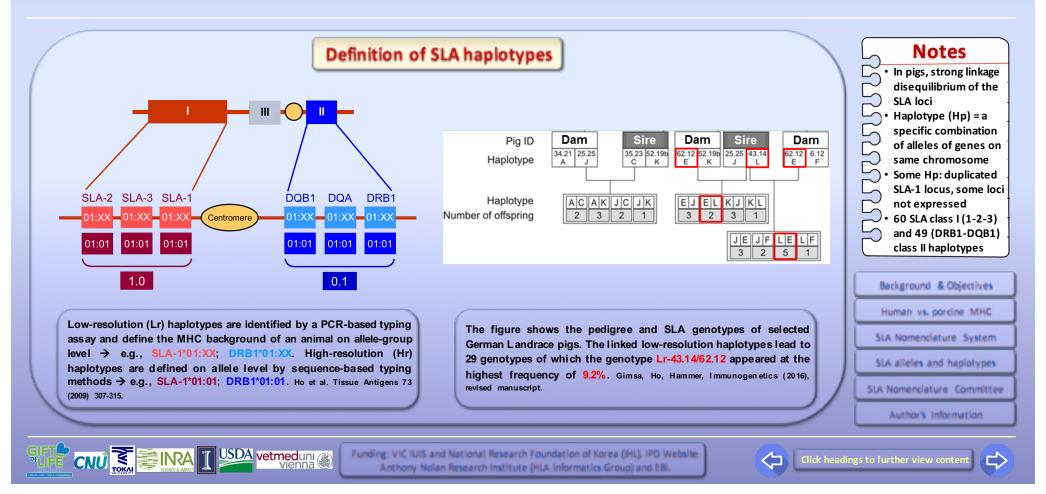




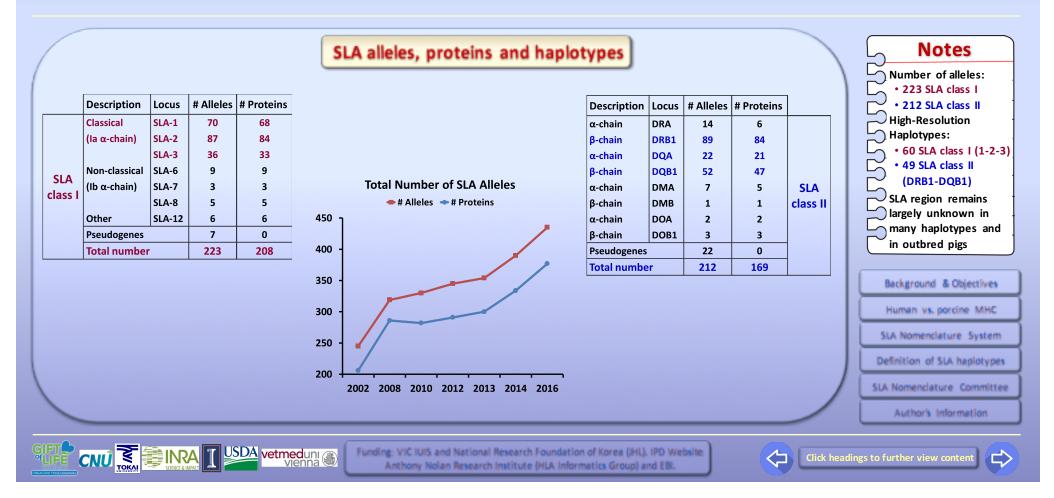














A

SLA Nomenclature Committee					Notes
The SLA Nomenclature Committee was established in 2002 at the 28th International Society of Animal Genetics (ISAG) Conference in Göttingen,		ism Database	Tranig ideotus	1 1 1 1 1 1	<ul> <li>Validation of new sequences = tedious &amp; time consuming</li> <li>Phylogeny has limited</li> </ul>
Germany. It subsequently became affiliated with the Veterinary Immunology Committee of the International Union of Immunological Societies (VIC IUIS). It is now a standing committee of both, ISAG and VIC IUIS and comprises eight members representing North American,	IPD-ML/Saf / seguence / measure IPD-MHC Swine (SLA) Reference 12.0 16/05/2008 Welcome to the Whork Simot Ladocytic Attigue (Bu) welches. The ta- tication of the Simot Ladocytic Attigue (Bu) welches. The full to many authors at the base compiled and estated by the maneters of the fi- cenetics (SMa).	resented represents work published or submitted to public databases by	PD-MHC Tools           c Cares           c False           c False	บบบ	capacity for allele- group assignment as number of alleles increases
Asian and European research institutions. <i>Objectives &amp; Responsibilities of the Committee</i> To validate newly identified SLA sequences according to the	IPD-MHC Announcement, December 2015 a The R <sup>+</sup> Me Chysics and underlarge physicscense is correctly support physic. The is to cape with the increase volume of data, to b The R <sup>+</sup> Me Chysics and underlarge properties with the publicited as either downloadils 00% of the connectance reports and tables or as set of ASTA files in the appropriate sublectivity of the TP event. Is an analysis of the connectance caused and analy data points (in the CP event). In the work is made possible by support from <u>The Internal Footback</u> , the <u>WERC</u> , and <u>durbury Inter</u> .		o Shrep o Kayments o Normendstare o Normendstare o Downloads o Phylogony o Submissions	JJJ	• The SLA system is among the most well characterized MHC
guidelines established for maintaining high quality standards of the accepted sequences. To assign appropriate nomenclatures for new alleles as they	Nonenecture The intervice presented here is based on the reports of the SLA Class I fluencetatives Workshops: • Smith OLL Lunnery XL Matteau GTV, Adda JL, Les JL, Ib CJ, Schook L, I. Intervich C, Classification of the SLA class I system, 2004 Tissue Anogenet CSLA, SLA Lines JL, Adda JL, Les JL, Schook L, Intervich C, Lunnery XL, Ibit CJ, Matteau CSL, Adda JL, Les JL, Schook L, I. Denvold C, Denvich P.	Curation For more investigation please contact: Chain, Suid 24, Anomenications Committee Chain, Suid 24, Anomenication Committee Mater Investor Trian Drive American, Mar 40100-2217 USA			systems
are validated. To serve as a curator of the <u>IPD-MHC SLA Database</u> and the repository of SLA sequences and haplotypes.	L meterior (, L. Unitorior) wynem, 200 mynem, 200 Tissou Antgans (2005), <b>66</b> /632-9 * to (S, Lummy JK, Ado JK, Rogil-Gallard C, Lee JK, School LB, smith dM Remeduture for factors of the SLA system, update 2008 Tassau Antgans (2009), 73:20-15 Both anticles are feedy available from Blackand-Suvergr com.	Tel + 17 (27) 922-094 Far + 17 (29) 92-092 F-mail: <u>91+094/til/femicligen.org</u>			luman vs. porcine MHC A Nomenclature System
Work with journal editors to make official nomenclature as a requirement for non-human MHC sequences.	The following additional information on the SLA region is also available: • Conditions for Acceptance of Here Abble Sequences • May of the SLA Case J Region • May of the SLA Case J Region • Mynophyny of SLA J, SLA + and SLA (Splf) • Mynophyny of SLA (Star J) • Mynophyny of SLA (Star J)				finition of SLA haplotypes A alleles and haplotypes
	e Hydgeny of SAL-OOL (pel) 9 Thydgeny of SAL-OOL (pel)	areas (full) (BD techulter)			Author's information



