

**ONLINE REPOSITORY****Human Atopic Dermatitis Complicated by Eczema Herpeticum is Associated with Abnormalities in Gamma Interferon Response**

Donald YM Leung MD, PhD,<sup>a,b,i</sup> Pei-Song Gao MD, PhD,<sup>c</sup>

Dmitry N Grigoryev MD, PhD,<sup>c</sup> Nicholas M Rafaels MS,<sup>c</sup> Joanne E Streib BA,<sup>a</sup>

Michael D Howell PhD,<sup>a</sup> Patricia A Taylor NP,<sup>a</sup> Mark Boguniewicz MD,<sup>a,b</sup>

Jennifer Canniff BS,<sup>b</sup> Brian Armstrong MPH,<sup>d</sup> Daniel J Zaccaro MS,<sup>d</sup>

Lynda C Schneider MD,<sup>e</sup> Tissa R Hata MD,<sup>f</sup> Jon M Hanifin, MD,<sup>g</sup> Lisa A Beck MD,<sup>h</sup>

Adriana Weinberg MD, PhD,<sup>b</sup> Kathleen C Barnes PhD<sup>c</sup>

<sup>a</sup>Department of Pediatrics, National Jewish Health, 1400 Jackson St, Denver, CO 80206

<sup>b</sup>Department of Pediatrics, University of Colorado Denver, 13123 E. 16<sup>th</sup> Ave,

Aurora CO 80045

<sup>c</sup>Johns Hopkins Asthma & Allergy Center, Johns Hopkins University School of Medicine, 5501

Hopkins Bayview Circle, Baltimore, MD 21224

<sup>d</sup>Rho Inc., 6330 Quadrangle Dr, Suite 500, Chapel Hill, NC 27517

<sup>e</sup>Children's Hospital Boston, 300 Longwood Avenue, Boston, MA 02115

<sup>f</sup>UCSD Medical Center, 200 West Arbor Drive MC 8201, San Diego, CA 92103

<sup>g</sup>Oregon Health & Science University, 3303 SW Bond Ave, Portland, OR 97239-4501

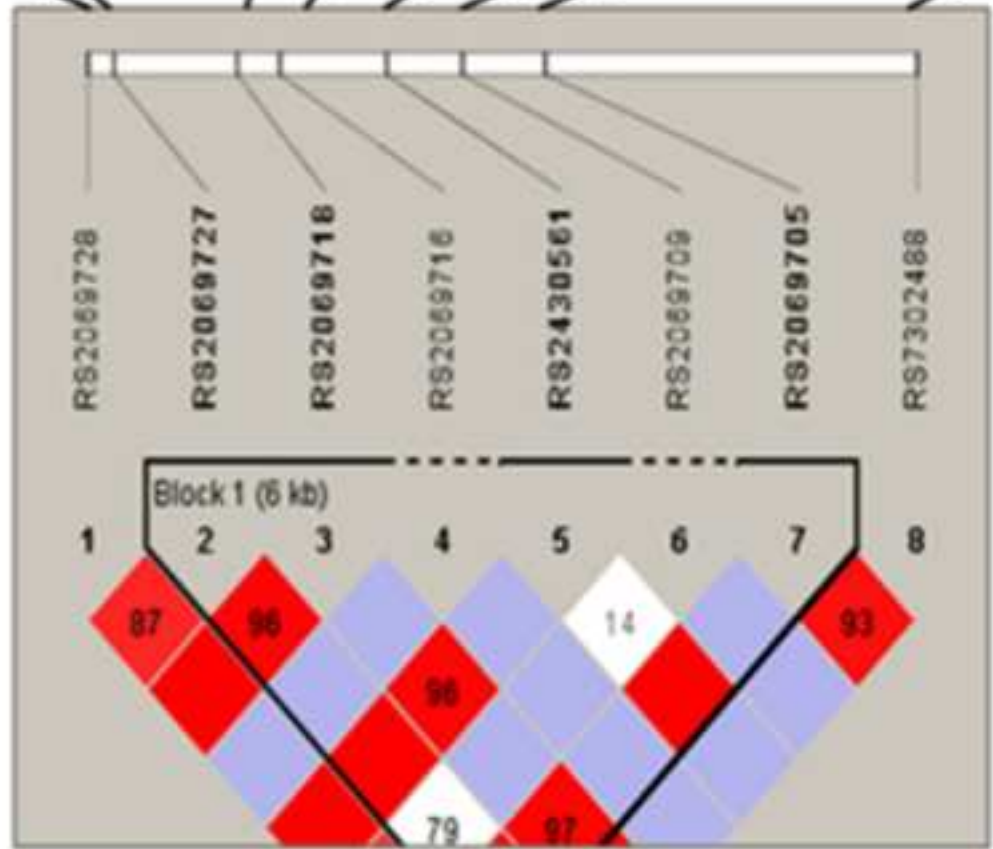
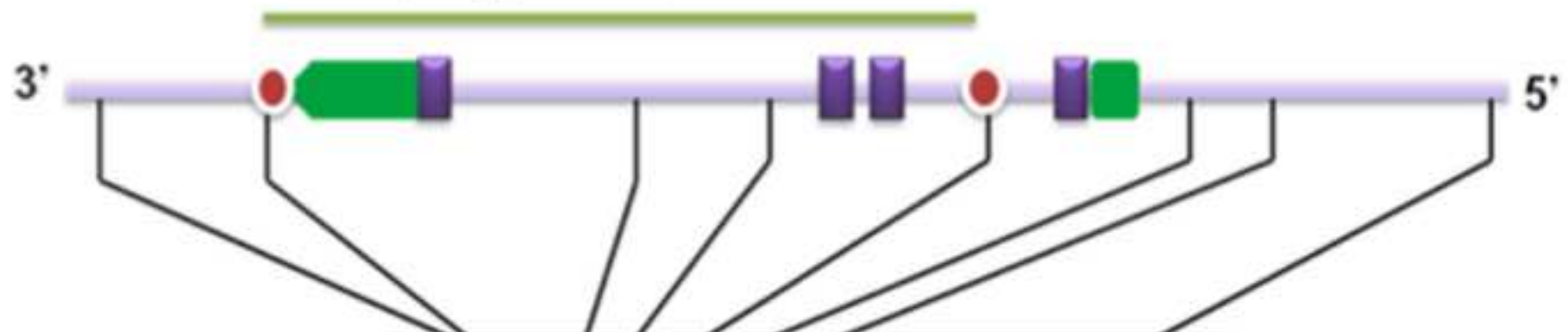
<sup>h</sup>Department of Dermatology, University of Rochester Medical Center, Rochester, NY 14642

**SUPPLEMENTAL FIGURES**

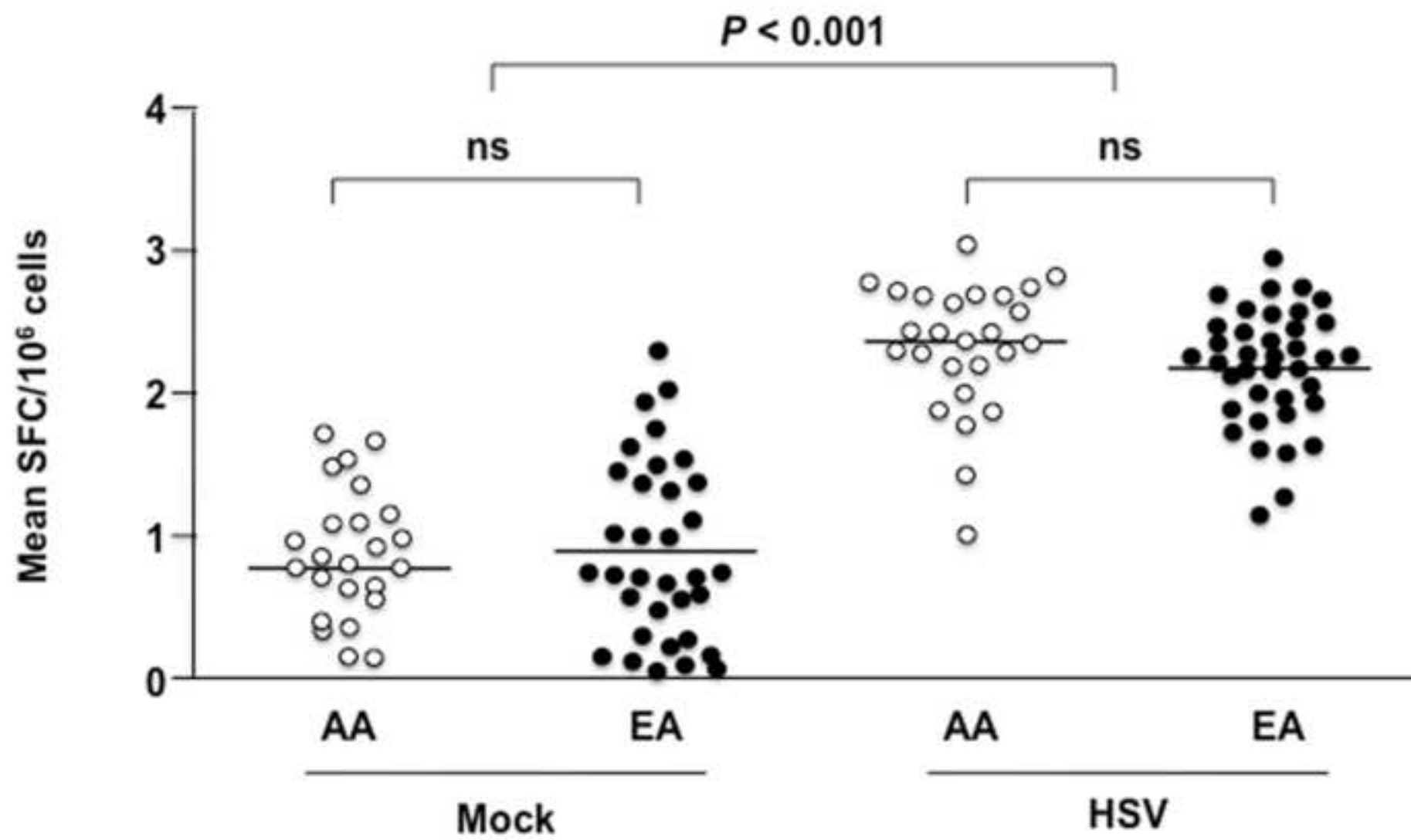
**FIG E1.** Gene structure and LD estimation for 8 *IFNG* SNPs in a European American population. The top panel is the *IFNG* structure containing 4 exons (in purple) spanning a region of 13.1 kb. (Filled circles represent the SNPs associated with IFN $\gamma$  production). Diamonds without a number correspond to  $D'=1$ ; shading represents LD with a red to white gradient reflecting higher to lower  $D'$  values

**FIG E2.** Mean levels of the  $\log_{10}$ -transformed SFC/ $10^6$  cells in mock- and HSV-treated PBMCs from European Americans (EA) and African Americans (AA).

Haplotype TGTA,  $P = 0.0027$



IFN-gamma, 13.1-Kb



**TABLE EI.** Clinical characteristics of participants in cell mediated immunity studies

		<b>ADEH+</b>	<b>ADEH-</b>	<b>NA</b>
Age (yrs)	<b>N</b>	<b>24</b>	<b>20</b>	<b>20</b>
	Mean SD	21.65 (15.42)	42.3 (10.35)	40.55 (10.50)
	Median	17.7	44.3	38.25
	(Min, Max)	(1.62,59.2)	(22.2, 54.7)	(27.3, 56)
<hr/>				
Female	N (%)	11 (45.8%)	15 (75.0%)	12 (60.0%)
Male	N (%)	13 (54.2%)	5 (25.0%)	9 (45.0%)
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African American	N (%)	5 (20.8%)	10 (50.0%)	11 (55.0%)
Caucasian	N (%)	19 (79.2%)	10 (50.0%)	9 (45.0%)

**TABLE EII.** Clinical characteristics of participants in genetics association studies  
of *IFNG* SNPs

Characteristic	European American		
	ADEH+	ADEH-	NA
Sample size	112	166	157
Males; N (%)	58 (53.7%)	49 (29.7%)	63 (40.1%)
Age; mean (SD)	22.9 (22.1)	38.4 (14.6)	36.5 (13.2)
Total IgE, Mean* (95% CI)	2,083 (1399-3100)	366.7 (261-516)	55.5 (44-69)
EASI, Mean† (95% CI)	7.4 (6.0-9.1)	3.5 (2.9-4.3)	ND

The following abbreviations are used: ADEH-, atopic dermatitis without eczema herpeticum; ADEH+, atopic dermatitis with eczema herpeticum; EASI, Eczema area and severity index; and ND, not done.

\*Geometric mean serum levels of total IgE.

†EASI determined by the percentage of eczema area on a 7-point ordinal scale: 0 =<10%; 1=10%-29%; 3=30%-49%; 4=50%-69%; 5=70%-89%; and 6=90%-100%.

and *IFNGRI* in the European American healthy controls (n=157).

**TABLE EIII.** SNP position, allele, role and minor allele frequency (MAF) of *IFNG* and *IFNGRI* in the European American NA controls (n=157)

SNP	SNP position	Distance from previous SNP	Alleles	Location	Minor allele frequency
<b><u>IFNG (chr12q14)</u></b>					
rs7302488	66847146		G/T	Promoter	0.23
rs2069705	66841278	5868	C/T	Promoter	0.36
rs2069709	66839970	1308	G/T	Promoter	0.02
rs2430561	66838787	1183	A/T	Intron	0.36
rs2069716	66837082	1705	A/G	Intron	0.05
rs2069718	66836429	653	C/T	Intron	0.48
rs2069727	66834490	1939	A/G	Downstream	0.34
rs2069728	66834051	439	A/G	Downstream	0.15
<b><u>IFNGRI(chr6q23.3)</u></b>					
rs2234711	137582213		C/T	Promoter	0.44
rs7749390	137582063	150	A/G	Intron (boundary)	0.44
rs10457655	137581503	560	A/G	Intron	0.23
rs9376269	137581198	305	C/G	Intron	0.20
rs1327475	137578148	3050	C/T	Intron	0.14
rs3799488	137561473	16675	C/T	Intron (boundary)	0.07