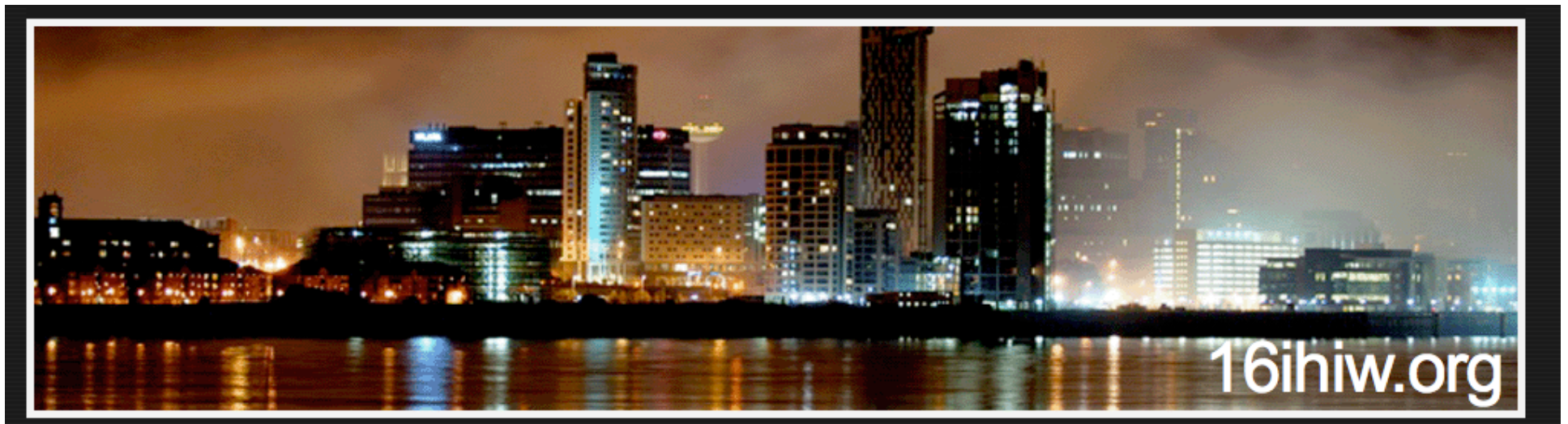


KIR Anthropology Component of the 16th IHIW

Population global distribution of KIR and ligands



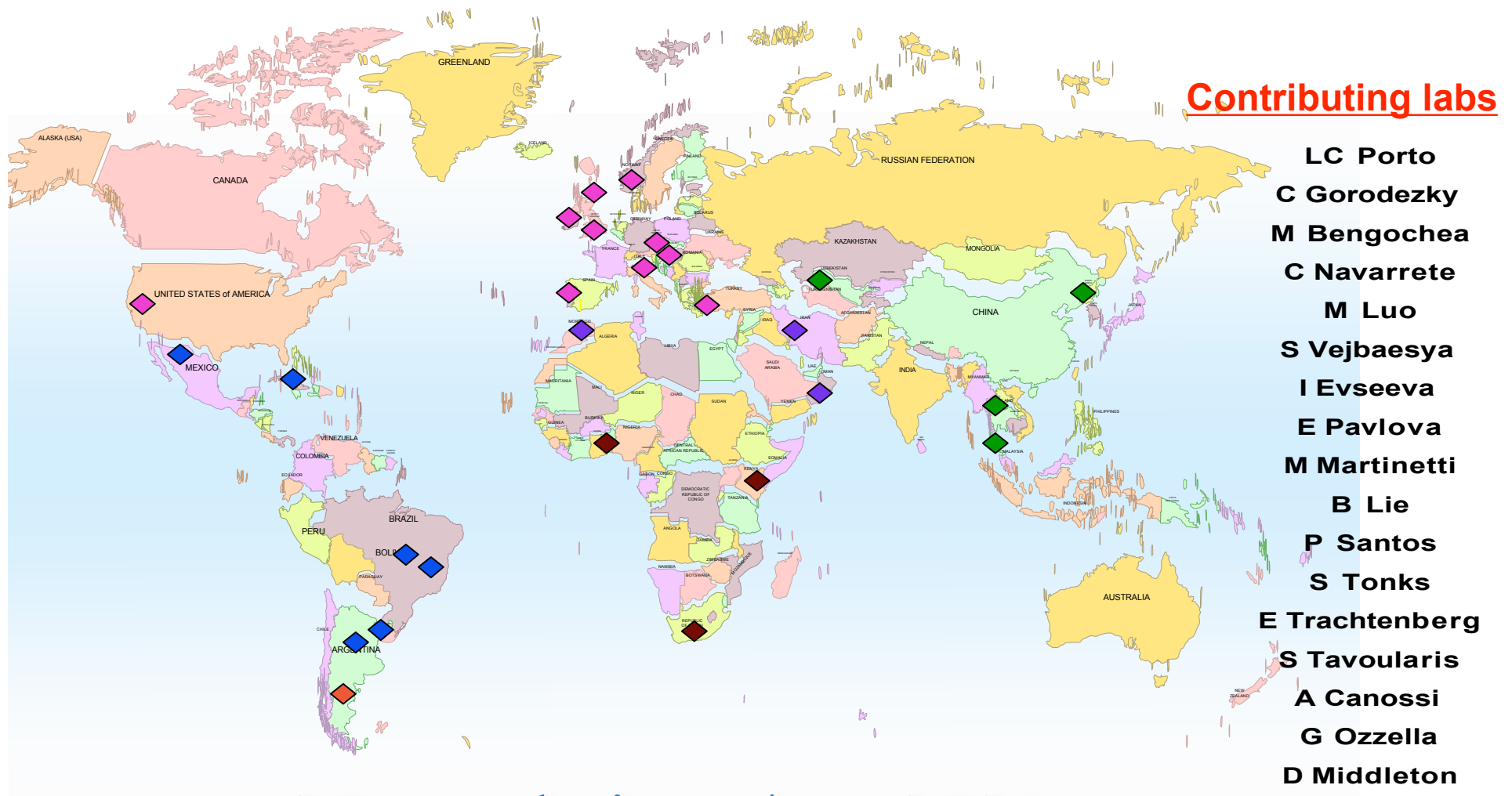
**Jill Hollenbach
Raja Rajalingam
Derek Middleton**

GOALS

16th IHIW KIR Anthropology Component

- Continue survey of worldwide KIR diversity
 - Ongoing recruitment of populations, particularly non-European, non-Admixed
- Continue survey of KIR allelic variation
 - KIR2DL2 and KIR3DL1 in additional populations
 - Expand allelic typing to KIR2DL3 and KIR3DS1
 - More detailed examination of allelic variability and haplotypic associations
- Continue examination of co-evolution of KIR and HLA
 - Type for KIR loci and HLA ligands in additional populations

15th Workshop KIR anthropology component: Population global distribution



27 populations / n = 3721

15th Workshop KIR anthropology component: Population and typing details

| Population | Ethnicity | n | KIR Method | KIR Alleles | HLA |
|-------------------|--------------|-------|------------|-------------|-------|
| Argentina | AdmixedAm | 338 | SSOP | No | C1/C2 |
| Brazil Belo H | AdmixedAm | 90 | SSOP | Yes | Yes |
| Brazil Rio de J | AdmixedAm | 166 | SSOP | Yes | Yes |
| Cuba Caucasian | AdmixedAm | 70 | SSOP | Yes | Yes |
| Mexico | AdmixedAm | 100 | SSOP | No | Yes |
| Uruguay | AdmixedAm | 41 | SSOP, SSP | Yes | Yes |
| Ghana | African | 41 | SSOP | No | Bw4 |
| Kenya | African | 1033* | SBT | No | Yes |
| Xhosa | African | 50 | SSOP | Yes | Yes |
| Chiriguano | S.Amerindian | 52 | SSOP | No | Yes |
| Hong Kong | Asian | 100 | SSOP | Yes | Yes |
| Singapore Chinese | Asian | 47 | SSOP | No | Yes |
| Thailand | Asian | 100 | SSP | Yes | Yes |
| Uzbekistan | Asian | 68 | SSP | No | Yes |
| Czech Republic | European | 121 | SSOP, SSP | No | Yes |
| UK | European | 99 | SSOP | No | Yes |
| Italy Pavia | European | 50 | SSP | Yes | Yes |
| Northern Ireland | European | 223 | SSOP | Yes | Yes |
| Norway | European | 363 | SSP | No | Yes |
| Portugal | European | 38 | SSP | Yes | Yes |
| Scotland Orkney | European | 90 | SSP | Yes | Yes |
| Spain | European | 100 | SSOP | No | Yes |
| Turkey Istanbul | European | 154 | SSOP | No | Yes |
| USA | European | 255 | MALDI | No | Yes |
| Canada Persians | MidEast | 68 | SSOP | Yes | Yes |
| Morocco | MidEast | 67 | SSOP, SBT | Yes | Yes |
| Oman | MidEast | 99 | SSOP | Yes | Yes |

Participating labs

16th IHIW KIR Anthropology Component

Sofia Tavoularis

HLA Laboratory Canadian Blood Services

Monica Tambutti

Jefa de Histocompatibilidad e Inmunogenica Hospital Italiano, Italy

Janelle Noble

Children's Hospital Oakland Research Institute, CA, USA

Elizabeth Trachtenberg

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Federal University of ParanaCuritiba, Brazil

Marcelo Fernandez-Vina

Stanford University, CA, USA

Chrissy Roberts

London School of Hygiene and Tropical Medicine, UK

Yufeng Yao

Sciences and Peking Medical College, China

Clara Gorodezky

Department of immunology & Immunogenetics, Mexico

Raj Rajalingam

University of California Los Angeles, CA, USA

Global coverage
16th IHIW KIR Anthropology Component

South America

North America

East Asia

Central Asia

South Asia

Europe

Africa

Timeline

16th IHIW KIR Anthropology Component

**Register your interest in this project--
ASAP!**

**Ongoing through December 31 2011--
complete genotyping and submit data**

January-April 2012--data analysis

May 28--Liverpool

Participation

16th IHIW KIR Anthropology Component

- Populations
 - Relatively homogeneous
 - At least 50 individuals
 - Healthy
 - Unrelated
- KIR and ligand typing
 - In-house using own reagents
 - Donated reagents- thanks to One Lambda Inc.
 - In-house typing or
 - Reference center

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