



The Graduate School of Medical Sciences  
Training and Educational Program for Eradication of AIDS Course  
- **Practice on AIDS VI** -

## **Center for AIDS Research Seminar**

**Wednesday, 24 May 2017, 16:30-17:30**  
2F Seminar Room, Center for AIDS Research

### **Dr. Mary Nuessen Carrington**

Director, Basic Sciences Program, SAIC-Frederick, Inc., NCI-Frederick, USA  
(Visiting Professor, Center for AIDS Research, Kumamoto University)

#### **Elevated HLA-A expression impairs HIV control through increased Natural Killer cell inhibition**

HLA-A mRNA is expressed at differing levels in an allele-dependent manner. We show that higher HLA-A expression levels associate with poor HIV control in a manner that is reproducible across disease outcomes studied. We also show that higher HLA-A expression leads to enhance HLA-E expression on the cell surface, including on HIV infected cells, and propose that this in turn leads to greater inhibition of natural killer cells that express the HLA-E specific inhibitory receptor CD94/NKG2A. Antagonizing NKG2A and HLA-E interaction may be advantageous, perhaps in combination with other therapies against HIV.

#### **Organized by**

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