CURRICULUM VITAE

Emily Y Deng

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EXPERIENCE

2006-2012 Senior Flow Cytometry Operator Flow Cytometry Core Facility Boston University Medical Campus, Boston, MA

. Flow cytometry equipments operation, maintenance, calibration, and trouble shooting, including Moflo, FACSAriaII, LSRII, FACSCalibur, and FACScan.

. High speed and single-cell sorting of up to eight colors, from various cell lines and cell types including human, mouse.

. Multi-color analysis using CellQuest, FlowJo, Summit and DiVa software.

. Management of the core, including scheduling, billing, and interaction with investigators of all levers.

. Training of new users in the use of the Flow Cytometry equipments in the core facility

. Assisting core users with analysis options, advising investigators on experimental design and data analyse/interpretation.

1998-2006 Senior Flow Cytometry Operator Flow Cytometry Core Facility Mount Sinai School of Medicine, NY, NY

. Daily Calibration, operation, and maintenance of two cell sorters: MoFlo by Cytomation, Vantage by Becton Dickinson and Influx by Cytopeia.

. Daily Calibration, operation, maintenance and repair of FACScan, FACSCalibur analyzers by Becton Dickinson.

. High speed and single-cell sorting of up to eight colors, from various cell lines and cell types including human, mouse.

. Multi-color analysis using CellQuest, FlowJo, Summit and DiVa software.

. Providing assistance and training to facility users in cell preparation, instrument operation, and data analysis.

1989-1994 Research Assistant, Wuhan Institute of Virology Wuhan China

Constructed several baculovirus transfer vectors by using polyhedron gene promotor. Expressed foreign genes at relatively higher level. Researched, analyzed and developed biological insecticide by using insect virus. Insect virus was reconstructed to express some toxic protein after it infected the insect. This insecticide eliminates the need for harmful chemical insecticides.

Performed scientific research in the area of Malaria vaccines. Expressed the Universal CD4 Epitope of the circumsporozoit (cs) protein by using influence virus as a vector. Measured the immune response against malaria induced by the recombinant virus in mice

EDUCATION		
1985-1989	B.S.	Department of Virology and Molecular Biology Wuhan University, China
1994-1997	M.S.	Department of Virology and Molecular Biology Wuhan University, China

Master's project on the Hepatitis B virus. Expressed the bi-function fusion Protein of Hepatitis B virus e antigen and mutant green fluorescent protein in E .coli BL21 strain. This created a green e antigen that could be easily traced and allowed for a new method of diagnosis of the immune system

<u>REFERENCE</u>

Available upon request.

Citizenship of USA