**BUDGET JUSTIFICATION (two-page limit)**

The following items must be addressed. These are the only items to be addressed.

See page 2 for example. DELETE the example page.

After completing the form, convert it to Portable Document Format (pdf) and upload it.

**PERSONNEL**

* All personnel receiving salary or consultant fees from the project should be listed, such as the Principal Investigator, Technicians/Postdoctoral Fellows, Consultants, Collaborating Investigators and Other Professionals
* For each person include: Name, degree(s), role on the project, percent of time to be devoted to project, and a description of the role on the project.

**COMPUTER EQUIPMENT AND EQUIPMENT COSTS**

* The AHA does not, in general, favor project support requests wherein the budget is devoted primarily to equipment purchase. However, such costs may be allowed if the equipment is essential to the conduct of the proposed research, will be used for at least 6 months during the award period, and is well justified.
* The Principal Investigator may purchase computers, notebooks, smart devices and related computer equipment. Software and downloads that are essential to the project are allowed. All computer and equipment costs should be listed, with a brief justification.

**SUPPLIES**

In general, supplies are items that are consumable, expendable or of low unit cost, and are directly related to the functioning of the Research Project, such as chemicals, glassware, small pieces of equipment costing less than $100, etc.

**TRAVEL**

* Describe any travel expenses related to the Principal Investigator and other personnel involved in the Research Project for attending scientific meetings (domestic or foreign), airfare, cost of registration, transportation, meals, and lodging.
* Other travel fund requests should be for the essential conduct of the project and must be described. For example, if requesting travel costs to reimburse for human subjects, provide a rationale here.

**PUBLICATIONS/PRINTING**

Reasonable expenditures connected to publication of results of research, including research information services and library services, and purchase of reprints are acceptable charges

**OTHER PROJECT EXPENSES**

May include sub-categories such as Subcontracts, Patient Incentives\Reimbursement, and Animal Housing, amongst others.

**BUDGET JUSTIFICATION EXAMPLE**

**Personnel:**

Jane Smith, MD, PhD, Principal Investigator (30% effort) will be responsible for the overall administration and direction of the project. She will analyze reaction of soluble IV9-HLA-A\*0201 complex with TCR on 68A62 and Iv9CTL.

Helen Thomas, MS, Other Professional (Research Technician) (25% effort) will focus on investigating the ability of various SL9-specific CD88 CCI clones from various HIV infection indidviuals whose T-cell receptors bind with different strength to the cognate pepMHC complex (SL9-HLA-A\*0201) to supress viral replication in HIV infected cells *in vitro*. In addition, she will maintain initial preparaton of the CTL clones and will characterize them on a regular basis to ensure maintenance of their initial quality.

Thomas Club, PhD, Technician/Postdoctoral Fellow (100% effort) will be involved in all the measurement of SD50 and SD25 for RT- and gag-derived peptides required to induce various responses of anti-HIV CTL. Most of this effort will be directed towards measurement of the intervals of epitope densities on target cells required for various responses on anit-HIV CTL.

Jane Jones, PhD, Technician/Postdoctoral Fellow (100% effort) will be responsible for the isolation and characterization of recominant MHC class I modules using Drosophila Melanogaster and E.coli expression systems and measurement of kinetics and affinity of reactions between soluble complex of immunodominant peptide SL9 with HLA-A-\*0201 soluble protein and TCR on various clones of live anti-SK9 CTL. Dr. Jones will also measure levels of a,b-TCR and CD8 molecules on anti-SL9 CTL.

**Equipment:**

Purchase of a Thermoccler ($10,000) and HPLC Fraction Collector ($15,000) is requested during the first year. The requested equipment is necessary for this project and will be used extensively to analyze IV9-HLA-A\*0201 complex.

**Publications:**

A total of $5,000 is requested in Year 3 to support publication of research findings in peer-reviewed journals.