

| Exhibit R-2, RDT&E Budget Item Justification | | | | | | | Date: February 2003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|----------------|----------------|---|---------|---------|---------------------|---------|--|----------------|----------------|----------------|----------------|-----------------------------|-------|-------|-------|-------|-----------------------------------|-------|-------|---|---|-------------------|--|--------|--------|--------|----------------------------------|--|--------|--|--|---------------------------|--|--|--|--|-------------------------|--|--|--|--|----------------|--|--|--|--|--------------------|--|--|--|--|-------|--|--|--------|--------|
| Appropriation/Budget Activity RDT&E,D BA1 | | | | R-1 Item Nomenclature: *In-house Laboratory Independent Research, PE 0601101D8Z | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cost (\$ in millions) | FY 2002 | FY 2003 | FY 2004 | FY2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total PE Cost | 2.081 | 2.047 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ILIR/P503 | 2.081 | 2.047 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>* Beginning in FY2004, In-house Laboratory Independent Research will transfer to the Navy under PE-0601152N. The transfer will enable closer coordination with Service independent research efforts and will result in a more appropriate policy-level role by OSD.</p> <p>A. Mission Description and Budget Item Justification:</p> <p>(U) This project supports basic medical research at Uniformed Services University of the Health Sciences (USUHS); aids recruitment and retention of faculty; supports unique research training for military medical students and resident fellows; and allows faculty researchers to collect pilot data leading to extramural research funds. Eighty to 100 intramural projects are active each year, including 20-25 new starts. Projects are funded on a peer-reviewed, competitive basis. Results contribute to knowledge that enables technical approaches and investment strategies within Defense Science and Technology programs.</p> <p>(U) The ILIR program is designed to answer fundamental questions of importance to the military medical mission in areas aligned with major thrusts of the DoD Biomedical Science and Technology Program. The portfolio of research projects will vary annually because this research is investigator-initiated. Examples of typical research efforts are, as follows:</p> <p>(U) <i>Combat Casualty Care</i>: Ischemia and reperfusion injury, traumatic brain and peripheral nerve injury, neural control of pain, endotoxic shock, cryotherapy, malignant hyperthermia, inflammation, and wound healing.</p> <p>(U) <i>Infectious Diseases</i>: Immunology and molecular biology of bacterial, viral and parasitic disease threats to military operations. These threats include E. coli and their shiga toxins, HIV, HTLV-1, strongyloides, gonorrhea, streptococcus, staphylococcus, hepatitis A, helicobacter pylori, typhoid, influenza A, Venezuelan equine encephalitis (VEE), malaria, and bartonellosis.</p> <p>(U) <i>Military Operational Medicine</i>: Sustainment of individual performance; mapping and managing deployment and operational stressors; cognitive enhancement; and military & medical training readiness.</p> <p>B. Program Change Summary: (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)</p> <table border="1"> <thead> <tr> <th></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget</td> <td>2.081</td> <td>2.126</td> <td>2.187</td> <td>2.387</td> </tr> <tr> <td>Current FY2004 President's Budget</td> <td>2.081</td> <td>2.047</td> <td>0</td> <td>0</td> </tr> <tr> <td>Total Adjustments</td> <td></td> <td>-0.079</td> <td>-2.187</td> <td>-2.387</td> </tr> <tr> <td> Congressional program reductions</td> <td></td> <td>-0.079</td> <td></td> <td></td> </tr> <tr> <td> Congressional rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional increases</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Reprogrammings</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> SBIR/STTR Transfer</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Other</td> <td></td> <td></td> <td>-2.187</td> <td>-2.387</td> </tr> </tbody> </table> | | | | | | | | | | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | Previous President's Budget | 2.081 | 2.126 | 2.187 | 2.387 | Current FY2004 President's Budget | 2.081 | 2.047 | 0 | 0 | Total Adjustments | | -0.079 | -2.187 | -2.387 | Congressional program reductions | | -0.079 | | | Congressional rescissions | | | | | Congressional increases | | | | | Reprogrammings | | | | | SBIR/STTR Transfer | | | | | Other | | | -2.187 | -2.387 |
| | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Previous President's Budget | 2.081 | 2.126 | 2.187 | 2.387 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current FY2004 President's Budget | 2.081 | 2.047 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Adjustments | | -0.079 | -2.187 | -2.387 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congressional program reductions | | -0.079 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congressional rescissions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congressional increases | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reprogrammings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SBIR/STTR Transfer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other | | | -2.187 | -2.387 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |