STRENGTHENING ALCOHOL AND HIV/AIDS BIOMEDICAL RESEARCH

CONTENTS

Foreword and Acknowledgment i
Mandate and Meeting Goals iii
Content of EAB Document v
Contributors List vi

I. AIDS Epidemic: Overview and Introduction 1
   A. Dimensions of the Epidemic 2
   B. Context for Research: Major Themes of the NIH Plan 3
   C. Alcohol Consumption 4
      1. Table 1: Prevalence of Alcohol Consumption HIV+ 5

II. NIAAA Alcohol and HIV/AIDS Biomedical Research 6
    A. Introduction and Background 7
    B. Past Biomedical and Research Priorities 16
    C. Summary Funded Research 17
    D. Research Opportunities: A New Research Approach: From Bedside to Bench (and back again)

III. Strategic Plan Area: Natural History and Epidemiology 25
     A. Scientific Issues 26
     B. Research Priorities of the NIH FY 2007 Plan 27
     C. Special Emphasis Area: Natural History and HAART 29
     D. Special Emphasis Area: Biomedical Aspects of Alcohol, HIV/AIDS, and Liver Disease 33
     E. Special Emphasis Area: Alcohol and HIV-related Anemia 35
     F. Special Emphasis Area: Modeling Alcohol-related Outcomes 37

IV. Strategic Plan Area: Etiology and Pathogenesis 41
    A. Scientific Issues 42
    B. Research Priorities of the NIH FY 2007 Plan 43
    C. Special Emphasis Area: Alcohol, HIV/AIDS-Induced Immune Modulation 45
    D. Special Emphasis Area: Mucosal Immunity 49
    E. Special Emphasis Area: Alcohol and Host Defense: A New Role for Mitochondria in Coordinating The Anti-Viral Immune Response 51
    F. Special Emphasis Area: Alcohol, HIV/AIDS and the
Central Nervous System (CNS)
G. Special Emphasis Area: Alcohol, HIV/AIDS-Induced Effects on the Microvasculature Endothelium
H. Special Emphasis Area: Alcohol Effects on Pulmonary Function in the HIV-Infected Patient

V. Strategic Plan Area: Prevention Science: Vaccines

VI. Appendix
A. References by Special Emphasis Area
B. Additional Papers