

January 6, 1992

Summary of Basic Research Activities  
Department of Anesthesia  
BWH Site

I. **Molecular Pharmacology** - local anesthetics and antiarrhythmics

A. Strichartz - *Harvard Anesthesia Center Grant* - NIH

Drugs and membranes - Desai, Hadlock, Lavoie

Neuronal ion channels and LAs - Guo, Bolotina

Locus of LA action - LeeSon, McHugh

*Saxitoxin and Veratridine as LAs* - BWHAF

Neurophysiology - T. Perry

Chemistry - T. Gebreyesus

(*Anaquest, inter alia, funding sought*)

B. G. K. Wang - *Molecular Pharmacology of LAs* - NIH

Single Channels - D. Bell

Patch clamp - L. Lin

Patch clamp - A. O'Connell

*Molecular Biology of Ion Channels* - NIH (pending)

S. Y. Wang - SUNY Albany

N. Castle -

C. N. Castle - *Cardiac and Vascular Pharmacology* Am. Heart (pending)

M. Slaskey, MD (Fellow) (NIH - Feb Submission)

II. **Local Anesthesia/Analgesia**

A. Strichartz - *Modulation of Neuronal Functions* - NIH

*in vivo* sensory studies - J. Thalhammer, M. Rappaport

*in vitro* neurophysiology - H. C. Shin

Modelling of peripheral nerves - S. Raymond

Local Anesthetic modulation by CO<sub>2</sub> - K Wong

B. S. Datta - *Changes of peripheral neurophysiology by Pregnancy*

C. D. Lambert - *Neurotoxicity of LAs* - Kendall Health Care

D. R. Moller - *Modulation of Cardiac Pharmacology by Pregnancy*

- E. Strichartz - *Changes in DRG in Chronic Pain*  
M. Holman - NIH - Neuronal Development Training Grant  
(collaboration with C. Berde, CHMC)

### III. General Anesthesia

- A. N. Krieger - Active Species of Steroid Anesthesia and Receptor Locus - NIH  
(W. M. Mok, C. Bukusogiu)

Micro injection of steroids - (J. Thalhammer)  
*Steroids and Ethanol* - (NIAA pending)

- B. R. Study - *General Anesthetics and Ca<sup>2+</sup> Channels* - ASA (planned)

### IV. Muscle Physiology

- A. F. Julian - *Negative Inotropy of General Anesthesia* NIH (Submitted)

- B. D. Clafin - *Skeletal muscle contraction* - NIH (Submitted)

- C. P. Allen - *Cloning Muscle Proteins* - MDA  
S. Mukherjee (NIH planned)

- E. Weiss - *Pulmonary Smooth Muscle*

D. Wingrove - Ca<sup>2+</sup> Anesthesia Center Fellow - NIH

V. Bolotina - Patch clamp - Harvard Anesthesia Center Grant