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12/01/2017

Division of Receipt and Referral
Center for Scientific Review
National Institutes of Health
6701 Rockledge Drive, Suite 2030, MSC 7720
Bethesda, MD 20892-7720

Dear Scientific Review Officer,

I am submitting this proposed application, entitled: ***"A Real-Time Computational System for Detecting ARDS Using Ventilator Waveform Data"*** in response to the PA-16-309 Parent F31 as a new application.

Please assign this application to the following:
> **Institutes/Centers**
> *National Heart, Lung, and Blood Institute – NHLBI*

The reasons for this request are to provide a real-time computational platform that is capable of detecting the occurrence, and worsening severity of acute respiratory distress syndrome (ARDS) in patients using only ventilator waveform data.

The disciplines that should be considered when reviewing this application are expertise in ARDS, machine learning, and mechanical ventilation.

I plan to receive letters of recommendation from the following persons
- Dr. Chen-Nee Chuah PhD
- Dr. Books Kuhn MD, MAS
- Dr. Michael Johnson MD PhD

I have spoken about this project with Dr. Lora Reineck.

We look forward to the review process.

Sincerely,
Gregory B. Rehm