

Health Science and Medical Engineering Lab 健康医工学研究室简介



P.I. Yumie Ono, Ph. D.(小野弓絵) Dept. of Electronics and Bioinformatics Meiji University

Biological signal measurement and medical application 1

Cardiac cycle 心脏活动周期

准确高效医疗技术

□ 生物信号测量和医学应用

Brain activity 大脑活动 Autonomic nervous activity mental stress evaluation Cognition, memory 自主神经活动 motor intent, emotion 心理压力评估 认知,记忆 运动意图,情绪 **Biosignal measurement** technology 生物信号测量技术 Muscle activity 肌肉活动 Muscle power, fatigue blood microcirculation Advanced biosignal processing 先进的生物信号处理 肌肉力量,疲劳 血液微循环 Ш Accurate & efficient medical technology

M Brain machine interface (BMI)

Technology that automatically interprets one's intention or mind to directly operate a machine 自动分析意图或者思想去直接操作机器的技术



 Development of living support tools for handicapped people
开发残疾人生活支持设备,用 脑电波控制机械手等

 Development of rehabilitation device for stroke patients with hand paralysis 中风患者 手的瘫痪康复器的研制

✓ Brain-controlled car 脑控电子车



✓ Digital mirror box therapy 数码镜盒疗法

