教师介绍

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2017.06-2019.06 美国加州大学旧金山分校 生理学博士 博士后
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研究内容

研究神经重症监护中常规开颅手术后脑代谢、脑血流和脑电信号的变化，探究脑损伤和神经功能恢复的过程和机理，为一级医生提供更精准的治疗手段及策略。改善重症脑损伤患者的预后。主要研究内容有脑氧代谢、脑血流、脑电信号的新技术开发，脑损伤患者及心脏骤停术后患者的脑功能恢复的机理研究，研究内容涉及神经科学、心理学、生理学、脑科学、生物医学工程、信号处理、统计学等多学科。

科研项目、成果和专利

1. 国家重点研发计划——非侵入神经电生理信号高精度采集与计算芯片关键技术研究及应用 青年，2021.12-2024.11
2. 天津大学自主创新基金——脑血压参数中个性化动脉压波动特征研究，负责人，2021.1-2021.11

论文、专著

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4. The Association of Bispectral Index Values and Metrics of Cerebral Perfusion During Cardiopulmonary Bypass. **Xiuyun Liu**, Mitsunori Nakano, Atsushi Yamaguchi, Brian Bush, Ker Aksyonik, Jennifer K. Lee, Raymond C. Koehler, Charles W. Hogue, Charles H. Brown. Journal of Clinical Anesthesia, 2021
5. Comparison of frequency and time domain methods of assessment of cerebral autoregulation in traumatic brain injury. **Xiuyun Liu**, Marek Czosnyka, Joseph Donnelly, Karol P Budohoski, Georgios V Varsos, Nathalie Nasr, Ken M Brady, Matthias Reinhard, Peter J Hutchinson, Peter Smielewski. Journal of Cerebral Blood Flow & Metabolism 35 (2), 248-256, 2015
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