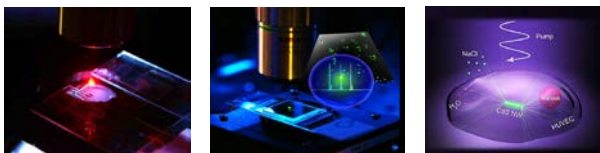




Research topics for PhD students/postdocs

- Development of novel, multifunctional biolasers, this includes the engineering of optical cavities, nanophotonics structures, or the design of different micro-particles using various materials. Required backgrounds: PhD in Photonics, Physics, Material science, or Electronics.
- Applications of biolaser including imaging and biosensing. Backgrounds related to Biomedical Engineering or biomedicine is preferred.
- Bio-integrated/bio-intelligent laser devices and optical robotics using nano-plasmonics, metasurface, 2D materials, and photonic crystals. Experiences in nanofabrication and optical system is required for postdocs.
- Analysis of laser modes by applying different photonic structures. Study of the interaction between biological science and lasers. This involves fundamental laser science. We will also apply imaging analysis, and machine learning in the near future.



新加坡 南洋理工大學 生物智能與光子醫學實驗室

Bio-integrated + Bio-intelligent Medical Photonics Lab

誠徵短期博士後學者/ 全額獎學金博士生。歡迎對於光電醫學與生醫電子元件感興趣的，來一同開發探索新科學新應用。

主持人：陳又誠 助理教授

單位：電子工程學院/ 生醫工程學院/ 生物訊號系統中心

博士後待遇：月薪 4500 SGD 申請期限：2018/10/31

資格：畢業 3 年內，詳細背景與題目如左邊介紹

我們實驗室目標在於開發各種新穎雷射/光電元件，應用於生物光子晶片，醫學影像與檢測。該新領域適合背景：電子工程、光電物理，醫學工程，生醫材料，微機電博士。具有光學系統架設與量測 或生醫跨領域研究經驗更佳。工作內容：請看以下研究題目介紹，可以根據申請者專長背景做討論與調整。

About Us

We are a new lab under the School of Electronics and Electrical Engineering & School of Chemical and Biomedical Engineering in NTU, Singapore. Our lab is dedicated to developing novel micro-nano bio-integrated lasers for the next generation biomedical applications, including nanophotonic biochips, bioimaging, and medical diagnosis. This is an emerging field which integrates the beauty of lasers, optofluidics, biophotonics, nanophotonics, electronics, machine learning, devices, and biomedicine.

Please email Prof. Chen if you are interested.

Email: yucchen@ntu.edu.sg

Lab site: www.ntubimp.com

Or search for [Asst Prof Chen Yu-Cheng](#)



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