

BOOK OF PROGRAMS



18TH

July 18 - 21, 2026 Sanya, China

INTERNATIONAL CONFERENCE ON PHOTONICS AND IMAGING IN BIOLOGY AND MEDICINE

► **Host**

Hainan Society of Biomedical Engineering

► **Organizers**

State Key Laboratory of Digital Medical Engineering
School of Biomedical Engineering, Hainan University
Overseas Expertise Introduction Center for Discipline Innovation of Brainmatics and Brain-inspired Intelligence (111 Center), Hainan University
Key Laboratory of Biomedical Engineering of Hainan Province
Hainan Technology Innovation Center for Brainmatics and Brain-Computer Interface
Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology
Key Laboratory of Biomedical Photonics of Ministry of Education of China

► **Technical Sponsored by**

SPIE, The International Society for Optics and Photonics
Journal of Innovative Optical Health Sciences
Biomedical Photonics Committee of Chinese Society of Biomedical Engineering
Biomedical Photonics Committee of Chinese Optics Society

PIBM
'26

PIBM 2026 Daily Schedule

Sat 18 Jul	Sun 19 Jul	Mon 20 Jul	Tue 21 Jul
	Yazhou 崖州	Poster Areas 海报区	Yazhou 崖州1+2Fushan 富山
	Opening & Plenary 8:45-10:00	Poster Session 9:00-11:30	T5 8:50-10:55
	Break		A3 9:00-10:25
	Plenary 10:30-12:00		Plenary 11:00-11:30
	Lunch	Lunch	Award & Closing Ceremony 11:30-12:00
	Yazhou 崖州1+2	Fushan 富山	Yazhou 崖州3
Registration 14:00-22:00	T1 14:00-15:35	A1 14:00-15:35	N1 14:00-15:20
			T3 13:00-14:25
			I-1 13:00-14:25
	Break / Poster Session		
	T2 16:00-17:20	A2 16:00-17:45	N2 15:50-17:10
			T4 14:55-16:55
			I-2 14:55-16:20
			AI 14:20-16:16
Dinner Buffet 17:30-19:30	Welcome Reception 18:30-21:00		
		Dinner Buffet 17:30-19:30	

- N – Neurophotonics
- I – Immunophotonics
- A – Analytical Biophotonics & Agri-Photonics
- T – Translational Biophotonics
- AI – AI for Biophotonics

★ This session includes Best Student Paper Award Candidates' Flash-Oral Presentations (in 4 Groups)

PIBM 2026

18th International Conference on Photonics and Imaging in Biology and Medicine

July 18 - 21, 2026 Sanya, China

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Welcome to PIBM 2026

Dear friends,

It is with great pleasure that we invite you to participate in the 18th International Conference on Photonics and Imaging in Biology and Medicine (PIBM 2026), which will be held in Sanya Yazhou Bay Science and Technology City, China, from July 18 to 21, 2026.

PIBM is the premier international conference series in biomedical photonics hosted in Asia. Originally proposed by Dr. Britton Chance, known as the father of biophotonics, PIBM was launched by Huazhong University of Science and Technology and held biennially from 1999 to 2005, before transitioning to an annual event from 2006 to 2014. The conference serves as a forum for scientists, engineers, and clinical researchers from multidisciplinary fields to exchange ideas and advance optical and imaging solutions for challenges in biology and medicine. Its scope spans from basic research to applications and demonstrations, covering topics including but not limited to neurophotonics, immunophotonics, agri-photonics, analytical biophotonics, translational biophotonics, and AI for biophotonics.

PIBM 2026 will continue to present the Best Student Paper Award and the Best Poster Award to recognize outstanding contributions by students and young researchers. Authors of accepted presentations may choose to publish a conference paper in the Proceedings of SPIE (EI-indexed) or submit their work to the peer-reviewed journal Journal of Innovative Optical Health Sciences (JIOHS, a full Open Access journal indexed by SCI, EI and Scopus). Located on southern Hainan Island, Sanya offers a unique geographical environment as the only city in China where one can enjoy both tropical rainforest and ocean scenery simultaneously. The city is surrounded by mountains on three sides, allowing the beautiful landscapes of mountains, sea, and rivers to merge naturally. Many of its hilltops provide sweeping views of the sea, river bays, and the urban landscape. This natural scenery and excellent ecological environment make Sanya a paradise for daily living, travel, and vacations.

We hope you enjoy the meeting in Sanya!

Qíngmíng LUO, Lihong V. WANG, and Valery V. TUCHIN
Chairs of PIBM 2026



Host



海南省生物医学工程学会
Hainan Society of Biomedical Engineering

Organizers



海南大学生物医学工程学院
Hainan University School of Biomedical Engineering



武汉光电国家研究中心
WUHAN NATIONAL LABORATORY FOR OPTOELECTRONICS



Britton Chance 生物医学光子学研究中心
Britton Chance CENTER FOR BIOMEDICAL PHOTONICS

State Key Laboratory of Digital Medical Engineering

School of Biomedical Engineering, Hainan University

Overseas Expertise Introduction Center for Discipline Innovation of Brainomatics

Key Laboratory of Biomedical Engineering of Hainan Province

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Journal of
**Innovative Optical
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Biomedical Photonics Committee of Chinese Society of Biomedical Engineering

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PIBM 2026 Committees

CONFERENCE CHAIRS

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Lihong V. Wang, California Institute of Technology (USA)

Valery V. Tuchin, Saratov State University (Russia)

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海南大学生物医学工程学院

海南大学生物医学工程学院成立于2020年1月，学院充分发挥学科交叉融合优势，致力于培养高素质科研教学师资和生物医学工程专业人才，打造特色鲜明、国内一流的生物医学工程学科。学院规划师资规模为160人，由40名学科带头人领衔。

自成立以来，生物医学工程学院已建立多个研发平台，包括研究中心（51,615平方米）、数字医学工程全国重点实验室、海南省生物医学工程重点实验室、与华为等国内知名企业共建的联合实验室等。

中心设有生物影像平台、数字生命与生物医学健康数据中心、生物传感与可穿戴医疗器械平台、类器官研究平台、教学培训中心、科技成果转化平台、非人灵长类动物研究基地等，旨在打造国家级跨学科应用研发平台。

School of Biomedical Engineering, Hainan University

Hainan University School of Biomedical Engineering was established in January 2020. The School brings into play the advantages of cross-disciplinary hybridity in order to develop a high-caliber research and teaching faculty, biomedical engineering professionals, and a distinctive and first-class biomedical engineering discipline of China. The School plans to have a faculty of 160 full-time members who will be led by 40 academic leaders.

Since its inauguration in January 2020, the School of Biomedical Engineering has established several research and development platforms, including a Research Center (51,615 square meters), State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, and joint laboratories co-established with Huawei and other well-known Chinese enterprises.

The Center have a bioimaging platform, a digital life and biomedical health data center, a biosensing and wearable medical device platform, an organoid research platform, a teaching and training center, a science and technology achievement commercialization platform, and a non-human primate research base. It aims to create a national research and development platform for interdisciplinary applications.



学科发展

国家级一流本科专业建设点
一级学科硕士点
一级学科博士点
博士后科研流动站
海南省特色学科 (A类)

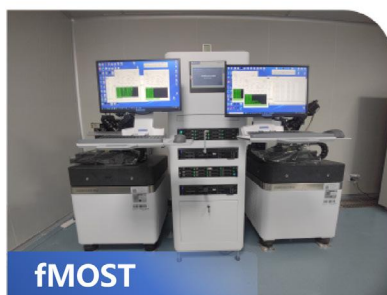
平台建设

数字医学工程全国重点实验室
“111”创新引智基地
海南省生物医学工程重点实验室
海南大学国家医疗健康大数据研究院
海南省脑空间信息学与脑机接口技术创新中心
华为运动健康实验室
海南真实世界数据研究院
海南省生物医学工程学会
海南大学三亚研究院
联影医疗器械与科学仪器联合研究中心

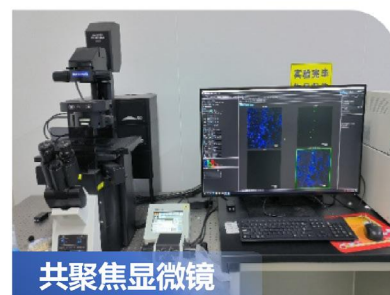
大型仪器设备



5T-MRI



fMOST



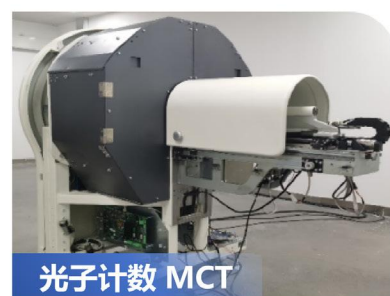
共聚焦显微镜



9.4T-MRI



MOST



光子计数 MCT



酒店平面示意图

Hotel Floor Plan



会场平面示意图

Floor Plan of the Venue

1F



PRESENTATIONS

Invited and oral presentation

The specific time for each invited and oral presentation is indicated in the program, which includes Q & A part. Presenters are encouraged to save their presentation PPTs or PDFs to conference computers before the session start.

Poster presentation

Poster presenters must set up the posters in person before the Poster Session.

The poster must not exceed the boundaries of the poster board and 80 cm (width) × 120 cm (height) is recommended.

Each poster has been assigned a NEW number, re-ordered by the topics. This number is also pasted on the poster board. Please check the Poster List for the NEW number, and set up the poster on the exact board.

Presenters are required to be standing by their posters for the duration of this session to answer questions and further discuss their work with attendees.

No shows will be reported to Conference management and these papers will not be published in the Proceedings of SPIE.

Posters will be shown during the whole conference days before 12:00 July 21. After this time, posters not removed will be discarded.

BEST POSTER AWARD

Only the posters whose authors applied for the Poster Award Competition will be evaluated by the Poster Award Evaluation Committee for Best Poster Award. Please make sure your poster is SHOWN from 13:00 July 19 to 18:30 July 20.

Especially, the first author of the Poster should stand by the poster in the Poster Session during 9:00–11:30 to answer questions.

The winners of the Best Poster Award will be announced in the Closing Ceremony and awarded the certificate.

BEST STUDENT PAPER AWARD

To be eligible for consideration, a student candidate must register for the conference and be listed as the first author on a presented poster.

Each candidate needs to set up his/her poster during the conference and do a 3-min flash oral presentation in groups in the related topical sessions scheduled on the afternoons of July 19 and 20. The Award Evaluation Committee will ask the presenter questions and select the winners based on scientific merit, impact, and clarity of the presentation (not the manuscript).

The winners of the Best Student Paper Award will be announced in the Closing Ceremony and awarded the certificate and cash prize.

MANUSCRIPT SUBMISSION

Full Manuscript Publication

All the authors who have presented at the conference may choose one of the ways to publish their work.

1) Conference paper included in the Proceedings of SPIE (EI indexed). The full manuscript should be submitted before September 15 through SPIE submission system (open soon). Each manuscript must be (a) original research on an SPIE topic; (b) written in clear English; (c) accompanied by necessary references only; (d) at least four full pages, single spaced

and single column; with figures no larger than necessary, and (e) use the SPIE template.

2) Journal paper published by Journal of Innovative Optical Health Sciences (JIOHS, SCI impact factor 2.5, also indexed by EI and Scopus). No submission deadline. The full manuscript should be submitted through JIOHS web and follow peer-review procedures. Publication fee is required following JIOHS guidelines.

Authors who have the right to submit manuscripts for Proceedings of SPIE must:

1. Register and attend PIBM 2026.
2. Present the work as scheduled in the Program.
3. Pay the manuscript processing fee.

Manuscript Requirements:

- i. Cover research relevant to the PIBM 2026 call for papers.
- ii. Be at least four full pages long with figures no larger than necessary.
- iii. Contain technical data, methodology, and description to explain results and support conclusions, and proper references and figure credits.
- iv. Be written in clear English, including figure legends and references.
- v. Include only citations that are necessary to the paper.
- vi. Use the SPIE template. Click for Guidelines for manuscript preparation.

Please note that the manuscript might be rejected by SPIE if

1. The manuscript is not in adherence with SPIE format specifications or does not reach SPIE on time. (SPIE will contact authors whose manuscripts have formatting problems. The authors shall be responsible for correcting any problems and submitting revisions in a timely manner.)
2. The manuscript with too high similarity according to Crossref Similarity Check.
3. Any no-show paper will not be published or indexed.

SPIE Proceedings Manuscript Specifications

- The required file format is PDF.
- Manuscripts should be at least four pages in length. The manuscript must contain all elements of a full-length technical manuscript (abstract, intro, conclusion, references, etc.)
- Single-space all text in one column, allowing extra space between paragraphs.
- All text—including footnotes and author information—and illustrations must appear within a 6.75x8.75 in. (17.15 x 22.23 cm) area.
 - If you use a U.S.-standard page (8.5 x 11 in./21.59 x 27.94 cm), set margins to .875 in. (2.22 cm) left and right, 1.0 in. (2.54 cm) top and 1.25 in. (3.17 cm) bottom.
 - If you use an A4 page, set margins to 1.925 cm left and right, 2.54 cm top, and 4.94 cm bottom.
- Use Times Roman or equivalent font for all text. Use boldface or italic for emphasis only. The proper fonts (all Times Roman) for various elements are as described and shown below along with more detail on how to handle elements of your paper.

Article title is 16 pt bold. Center the paper title at the top of the page. Capitalize only the first word, proper nouns, and acronyms. Keep titles brief and descriptive. Avoid starting with articles or prepositions, e.g., "The study of ...," "On the" Spell out acronyms unless they are widely known.

Author Names and Affiliations are 12 pt and centered. Capitalize proper nouns. Leave extra space between authors and affiliations/address. Omit titles or degrees such as Dr., Prof., Ph.D., etc. Avoid acronyms that are not internationally known.

ABSTRACT is on a line by itself, all capitals, centered, 11-point type and boldfaced, two lines below author affiliation(s). Start the text of the abstract on a separate line. The text is 10 pt with standard capitalization. Limit the abstract to 250 words.

Keyword list is an untitled list of up to 10 keywords of your choice in 10 pt with standard capitalization. Do not put a heading on this list of keywords. Insert it between the abstract and the body of the paper. This list will ensure that your paper is indexed appropriately.

SECTION HEADINGS are 11 pt bold capital letters throughout the words centered on separate lines. Number sections sequentially (i.e., 1, 2, 3,...).

Subsection headings are 10 pt bold with capitalization of the first letter of the first word and proper names only. Type on a separate line flush with the left margin. Number subsections according to the following example: Sec. 3.1 is the first subsection of Sec. 3; Sec. 3.2.1 is a subsection of Sec. 3.2.

Paragraphs

Leave additional space between paragraphs. Indentation is optional.

Body text is 10 pt with standard capitalization.

Figures and tables

Figures and tables should be clear and legible but sized to make economical use of space, and must fit entirely within the manuscript image area. Similar or related figures should be of uniform size with uniform lettering. All figures should be called out in the text as well as properly labeled and captioned. Number figures sequentially using Arabic numerals, and place a numbered caption near each figure or table. Figures may be positioned within the text or at the end of the manuscript.

Figure and table captions are 9 pt with capitalization of the first letter of the first word and proper nouns only. Begin each caption with figure or table number.

Footnotes

Additional author information, such as email addresses and web site location should be given in a footnote. Footnotes must appear within the page image area.

Footnote text is 9 pt with capitalization of the first letter of the first word and proper nouns only.

Acronyms

For the first occurrence (other than for commonly used acronyms such as IR, CCD, MTF, etc.), spell out each word followed by the acronym in parentheses, e.g., liquid phase epitaxy (LPE) or Extreme Ultraviolet Explorer (EUV).

Equations

Type all equations. Punctuate as a sentence. Type display equation numbers in Arabic numerals in parentheses flush with the right margin. Number display equations consecutively.

Reference citations

Type reference citations within the text as superscripts.

Acknowledgments

All acknowledgments for technical and financial support and government contract or copyright information should go in this section, which follows the text but precedes the references.

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A Statement of Transfer of Copyright must be signed and returned to SPIE for publication in the Proceedings of SPIE. The intent of this agreement is to protect the interests of both SPIE and authors/employers, and to specify reasonable rights for both parties related to publication and re-use of the material. Complete details of the agreement are outlined on the form. <http://spie.org/x14109.xml>

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Submit to SPIE Journals

SPIE publishes peer-reviewed journals in optics and photonics, each covered by the Web of Science, Scopus, and other relevant indexes. These journals welcome submission of journal-quality manuscripts on relevant research presented at this conference. Each accepted article is published on the SPIE Digital Library promptly after peer review, copyediting, and typesetting. Details on the journals and the submissions process are available via these links:

[Optical Engineering \(OE\)](#)

[Journal of Biomedical Optics \(JBO\)](#)

[Journal of Electronic Imaging \(JEI\)](#)

[Journal of Micro/Nanolithography, MEMS, and MOEMS \(JM3\)](#)

[Journal of Applied Remote Sensing \(JARS\)](#)

[Journal of Nanophotonics \(JNP\)](#)

[Journal of Photonics for Energy \(JPE\)](#)

Registration Desk Open Hours

14:00–22:00, July 18, Lobby, 3F

8:00–18:00, July 19, Lobby, 3F

8:30–18:00, July 20, Lobby, 3F

8:30–12:00, July 21, Lobby, 3F

Breaks

10:00–10:30, July 19, 1F

15:30–16:00, July 19, 1F

14:30–15:00, July 20, 1F

Lunches

11:30–14:00, July 19–21, Harvest Restaurant (1F) 一楼丰收西餐厅

Dinner Buffet

17:30–19:30, July 18, July 20, Harvest Restaurant (1F) 一楼丰收西餐厅

Welcome Reception

18:30–21:00, July 19, Outdoor Lawn (1F) and Harvest Restaurant (1F) 一楼户外草坪、一楼丰收西餐厅

Program & Abstract Links



Photo Gallery



Internet Connection

Conference WIFI: Hilton Honors Room: 9999 Name: 9999

PIBM 2026 Social Event | Conference Tour

Location: Bougainvillea Science and Expo Park (三角梅科博园)

Date: July 21, 2026

Available Time Slots:

① Session 1: 14:30

② Session 2: 15:30

Capacity & Registration:

Each session is strictly limited to 80 participants. Please scan the QR code to register and select your preferred time slot.

Limited availability! Reservations are made on a first-come, first-served basis.



PIBM 2026 Plenary Sessions

Morning Sunday 19 July

Location: Yazhou Ballroom 崖州厅	
Opening Ceremony <i>Chair: Valery V. Tuchin, Saratov State University (Russia)</i>	
8:45-9:00	PIBM 2026 Program Introduction Hua Shi, Hainan University (China)
<i>Chairs: Valery V. Tuchin, Saratov State University (Russia); Ling Fu, Hainan University (China)</i>	
9:00-9:30	From optical to optoacoustic imaging: the time has come for broad clinical application Vasilis Ntziachristos, Technical University of Munich (Germany)[PL- 1]
9:30-10:00	AI Enhanced Ultrahigh-Resolution Optical Coherence Tomography for 3D Cerebrovascular Imaging in Rodent Brain <i>in vivo</i> Yingtian Pan, Stony Brook University (USA)[PL- 2]
10:00-10:30	Group photo & Break
10:30-11:00	Low-coherence Biophotonics Imaging for the Brain Xingde Li, Johns Hopkins University (USA)[PL- 3]
11:00-11:30	Neurophotonic imaging to study drug addiction Congwu Du, Stony Brook University (USA)[PL- 4]
11:30-12:00	Advances in tissue optical clearing Valery V. Tuchin, Saratov State University (Russia)[PL- 5]

Morning Tuesday 21 July

Location: Yazhou Ballroom 崖州厅	
<i>Chair: Qingming Luo, Hainan University (China)</i>	
11:00-11:30	Photoacoustic, Light-Speed, and Quantum Imaging/Physics Lihong V. Wang, California Institute of Technology (USA) [PL- 6]
Award and Closing Ceremony <i>Chair: Pengcheng Li, Hainan University (China)</i>	
11:30-12:00	Best Poster Award Best Student Paper Award Closing Remarks

PIBM 2026 Topical Sessions

Afternoon Sunday 19 July

Location: Yazhou 崖州厅 1+2	Location: Fushan 富山厅	Location: Yazhou 崖州厅 3
Translational Biophotonics 1	Analytical Biophotonics 1	Neurophotonics 1
<i>Chairs:</i> Ping Xue , Tsinghua University (China); Buhong Li , Hainan University (China)	<i>Chairs:</i> Zhihua Ding , Zhejiang University (China); Dan Zhu , Huazhong University of Science and Technology (China)	<i>Chairs:</i> Shaoqun Zeng , Huazhong University of Science and Technology (China); Xiaoquan Yang , Hainan University (China)
14:00-14:30 [TK- 1] Evaluation of transplant liver viability with optical coherence tomography (Keynote) Yu Chen , Fujian Normal University (China)	14:00-14:20 [AI- 1] Upconverting nonlinearity enabled deep tissue super-resolution imaging (invited) Fan Wang , Beihang University (China)	14:00-14:20 [NI- 1] Ultrasound-triggered nitric oxide boosts neuromodulation efficacy (invited) Zhen Yuan , University of Macau (Macau, China)
14:30-14:50 [TI- 1] Influence of biomechanics on postoperative corneal asphericity after femtosecond laser refractive surgery (invited) Feng Xu , Huazhong University of Science and Technology (China)	14:20-14:40 [AI- 2] Sparse scanning structured illumination microscopy (SS-SIM) for super-resolution imaging of thick samples (invited) Peng Gao , Xidian University (China)	14:20-14:35 [NO- 1] Ultrasound Modulation of Visual Circuits in Mice Independent of Auditory Confound Jiaru He , Guangdong Institute of Intelligence Science and Technology (China)
14:50-15:05 [TO- 1] Dual-mode endoscopic probe for optical coherence tomography and plasma ablation Minghui Chen , University of Shanghai for Science and Technology (China)	14:40-15:00 [AI- 3] Ultrasound and photoacoustic dual-modal imaging-guided deep penetration acoustic volumetric bioprinting (invited) Qiangzhou Rong , Xi'an Jiaotong University (China)	14:35-14:50 [NO- 2] Polarization-sensitive photoacoustic imaging Zhenhui Zhang , South China Normal University (China)
15:05-15:20 [TO- 2] Advanced in Non-contact Optical Coherence Elastography Yirui Zhu , Nanchang Hangkong University (China)	15:00-15:20 [AI- 4] A Study on a Highly Sensitive CRISPR-Based Single-Tube Dual-Gene Detection Method Using FWHT (invited) Niancai Peng , Xi'an Jiaotong University (China)	14:50-15:05 [NO- 3] Photoacoustic imaging and modulation of the brain lymphatic system Zhiyang Wang , South China Normal University (China)
15:20-15:35 [TO- 3] A novel fast and high resolution IVOCT image reconstruction method Haiyi Bian , Huaiyin Institute of Technology (China)	15:20-15:35 [AO- 1] Development of a High-Sensitivity Piezoelectric Ultrasonic Transducer Based on PZT Thin Films for Deep-Sea Sonar Detection Xiang Shi-Li , Hubei Jiufengshan Laboratory (China)	15:05-15:20 [NO- 4] A High-Synchronization Wearable fNIRS-EEG System for Investigating Neurovascular Coupling Dynamics at Millisecond Temporal Resolution Dongyuan Liu , Tianjin University (China)

PIBM 2026 Topical Sessions

Afternoon Sunday 19 July

Location: Yazhou 崖州厅 1+2	Location: Fushan 富山厅	Location: Yazhou 崖州厅 3
Translational Biophotonics 2	Analytical Biophotonics 2	Neurophotonics 2
<i>Chairs: Junle Qu</i> , Shenzhen University (China); <i>Mingxing Ouyang</i> , Changzhou University (China)	<i>Chairs: Tongsheng Chen</i> , South China Normal University (China); <i>Fan Wang</i> , Beihang University (China)	<i>Chairs: Zhen Yuan</i> , University of Macau (Macau, China); <i>Jiong Ma</i> , Fudan University (China)
16:00-16:20 [TI- 2] Stimulated Raman Histology for Label-free Cancer Diagnosis (<i>invited</i>) Minbiao Ji , Fudan University (China)	16:00-16:20 [AI- 5] SERS Biosensing Technology and Liquid Biopsy Applications (<i>invited</i>) Duo Lin , Fujian Normal University (China)	15:50-16:10 [NI- 2] Specific control of calcium channels via two-photon excitation (<i>invited</i>) Hao He , Shanghai Jiao Tong University (China)
16:20-16:40 [TI- 3] Functional Dynamic OCT and Applications (<i>invited</i>) Jianbo Tang , Southern University of Science and Technology (China)	16:20-16:40 [AI- 6] Super-broadband stimulated Raman scattering spectroscopy and imaging (<i>invited</i>) Hanqing Xiong , Peking University (China)	16:10-16:30 [NI- 3] High-throughput two-photon microscope for multiparameter and quantitative brain function imaging (<i>invited</i>) Shiwei Ye , Shenzhen Institute of Advanced Technology, CAS (China)
16:40-16:55 [TO- 4] Accurate Extraction of OCE Elastic Waves and Motion Artifact Correction Based on Color Feature Segmentation and Double-Line Template Matching Gang Shi , Nanyang institute of Technology (China)	16:40-17:00 [AI- 7] What is hidden in water? Infrared-Raman-fluorescence microscopy reveals molecular signatures from nanoplastics to living systems (<i>invited</i>) Delong Zhang , Zhejiang University (China)	16:30-16:45 [NO- 5] Two-Photon 3D Imaging of Optically Evoked Neural Activity at 100 Hz Dongli Xu , Huazhong University of Science and Technology (China)
16:55-17:20 Best Student Paper Award Candidates' Flash-Oral Presentations (Group TP+IP)	17:00-17:20 [AI- 9] Optical micromanipulation: from in vitro trapping to in vivo actuation (<i>invited</i>) Hongbao Xin , Jinan University (China)	16:45-17:10 Best Student Paper Award Candidates' Flash-Oral Presentations (Group NP)
	17:20-17:44 Best Student Paper Award Candidates' Flash-Oral Presentations (Group AP)	

PIBM 2026 Topical Sessions

Morning Monday 20 July

Location: Poster Areas

Poster Session

9:00-11:30

Poster presenters must set up the posters in person before the Poster Session.

The poster must not exceed the boundaries of the poster board and 80 cm (width) × 120 cm (height) is recommended.

Each poster has been assigned a NEW number, re-ordered by the topics. This number is also pasted on the poster board.

Please check the Poster List for the NEW number, and set up the poster on the exact board.

Presenters are required to be standing by their posters for the duration of this session to answer questions and further discuss their work with attendees.

ALL the posters will be evaluated by the Poster Award Evaluation Committee for Best Poster Award.

Please make sure your poster is SHOWN from 13:00 July 19 to 18:30 July 20.

No shows will be reported to Conference management and these papers will not be published in the Proceedings of SPIE.

After 12:00 July 21, posters not removed will be discarded.

PIBM 2026 Topical Sessions

Afternoon Monday 20 July

Location: Yazhou 崖州厅 1+2	Location: Fushan 富山厅	Location: Yazhou 崖州厅 3
Translational Biophotonics 3	Immunophotonics 1	Neurophotonics 3
<i>Chairs:</i> Qin Li , Beijing Institute of Technology (China); Jianbo Tang , Southern University of Science and Technology (China)	<i>Chairs:</i> Feifan Zhou , Hainan University (China); Zheng Liu , Hainan University (China)	<i>Chair:</i> Xiangning Li , Hainan University (China)
13:00-13:20 [TI- 4] AI-Enabled Molecular Cytopathology Using Stimulated Raman Scattering Microscopy (invited) Shuhua Yue , Beihang University (China)	13:00-13:20 [II- 1] Monitoring circulating melanoma cells by in vivo photoacoustic flow cytometry (invited) Xunbin Wei , Peking University (China)	13:00-13:20 [NI- 4] Intervention of IL-6 signaling in the area postrema ameliorates cancer cachexia in mice (invited) Qingtao Sun , Institute of Genetics and Developmental Biology, CAS (China)
13:20-13:40 [TI- 5] Identifying molecular fingerprints for metabolic stress response and disease mechanisms by bond-selective microscopy (invited) Hyeon Jeong Lee , Zhejiang University (China)	13:20-13:40 [II- 2] Photobiomodulation Improves Cognitive Function in Sleep-Deprived Mice by Inhibiting the TLR4-Mediated Pyroptosis Pathway (invited) Hongli Chen , Institute of Biomedical Engineering, Chinese Academy of Medical Sciences & Peking Union Medical College (China)	13:20-13:35 [NO- 6] Synaptic level remodeling of basal forebrain PV projection in Alzheimer's Disease Jiaojiao Tian , The First Affiliated Hospital of Zhengzhou University (China)
13:40-13:55 [TO- 5] SERS-Enabled Liquid Biopsy for Precision Diagnostics Jing Wang , Fujian Normal University (China)	13:40-13:55 [IO- 1] Non-invasive modulation of meningeal lymphatics ameliorates ageing and Alzheimer's disease-associated pathology and cognition in mice Miao Wang , Hainan University (China)	13:35-13:50 [NO- 7] A dorsal subiculum-medial mammillary body pathway for spatial memory Jianping Zhang , The First Affiliated Hospital of Chongqing Medical University (China)
13:55-14:10 [TO- 6] Study on Correlation Indicators of Intestinal Barrier Function Based on the Combination of Multidimensional Metabolomic Data and Raman Spectroscopy Qi Zeng , Xidian University (China)	13:55-14:10 [IO- 2] Photobiomodulation: Regulation of Metabolic Function and Neuroinflammation in Diabetic Rats Hui Chen , Tianjin Medical University General Hospital (China)	
14:10-14:25 [TO- 7] Application of SERS-Based Multifactor Analysis of Extracellular Vesicles for Cancer Detection and Monitoring Quan Zhou , Fuzhou University (China)	14:10-14:25 [IO- 3] In Vivo Hyperspectral CARS Imaging Reveals Photobiomodulation-Driven Remodeling of Fatty Acid Homeostasis in AD Mouse Model Ziyi Luo , Shenzhen University (China)	

PIBM 2026 Topical Sessions

Afternoon Monday 20 July

Location: Yazhou 崖州厅 1+2	Location: Fushan 富山厅	Location: Yazhou 崖州厅 3
Translational Biophotonics 4	Immunophotonics 2	AI for Biophotonics
Chairs: Hongbao Xin , Jinan University (China); Pu Wang , Beihang University (China)	Chairs: Xunbin Wei , Peking University (China); Haiming Luo , Hainan University (China)	Chairs: Hao He , Shanghai Jiao Tong University (China); Anan Li , Hainan University (China)
14:55-15:15 [TI- 6] Label-free quantitative imaging of tissue chromophores with Spatial Frequency Domain Imaging (SFDI) <i>(invited)</i> Yanyu Zhao , Beihang University (China)	14:55-15:15 [II- 3] Adaptive optics two-photon microscopy for deep-tissue imaging of immune cell dynamics <i>(invited)</i> Sicong He , Southern University of Science and Technology (China)	14:20-14:40 [AII- 1] Molecular Knowledge-Driven Cross-Fusion Transformer: A Generalized Multimodal Neural Network for Biomedical Data Integration <i>(invited)</i> Jiong Ma , Fudan University (China)
15:15-15:35 [TI- 7] Upconversion nanoparticles in biological labeling, imaging, and therapy <i>(invited)</i> Irina Yanina , Saratov State University (Russia)	15:15-15:35 [II- 4] Photobiomodulation protects chronic kidney disease by inhibiting oxidative stress and inflammation <i>(invited)</i> Ji Bian , University of Sydney, Royal North Shore Hospital (Australia)	14:40-14:55 [AIO- 1] AI-assisted quantitative brightfield microscopy for label-free phenotyping of appendix-derived gut organoids Shaohua Ma , Tsinghua University (China)
15:35-15:55 [TI- 8] Nanoparticle-Mediated Targeting of Pulmonary Metastases through an In Vivo Coagulation Cascade <i>(invited)</i> Daiqin Chen , Innovation Academy for Precision Measurement Science and Technology, CAS (China)	15:35-15:50 [IO- 4] Mesoscale imaging of liver vasculature and immune niches uncovers a nerve-associated portal macrophage subset Zheng Liu , Hainan University (China)	14:55-15:10 [AIO- 2] A Hybrid Deep Learning Model for Oral Disease Classification Based on Sub-Diffuse Reflectance Spectroscopy Technique Zhang Limin , Tianjin University (China)
15:55-16:10 [TO- 8] Bioinformatics-Driven SR-SIM with Machine Learning Quantifies Mitochondrial-ATP Spatial Features for Early Parkinson's Disease Prediction Lihua Li , South China Normal University (China)	15:50-16:05 [IO- 5] Study on the Pathological Mechanisms of Sterile Inflammation Using Photoacoustic Detection and Imaging Technology Yizhou Tan , Chinese PLA General Hospital (China)	15:10-15:25 [AIO- 3] SERS-AI strategy for rapid classification of CNS-related diseases Dongjie Zhang , Xidian University (China)
16:10-16:25 [TO- 9] Hyaluronic acid-engineered infection-responsive liposomes achieve biofilm penetration and synergistic photothermal-photodynamic antibacterial therapy Huijuan Yin , Chinese Academy of Medical Sciences & Peking Union Medical College Institute of Biomedical Engineering (China)	16:05-16:20 [IO- 6] Targeted modulation of the meningeal lymphatic reverse pathway for immunotherapy of breast cancer brain metastasis Yanfeng Dai , Hainan University (China)	15:25-15:40 [AIO- 4] PanoMito: mapping mitochondrial heterogeneity from morphofunctional profiling to single-mitochondrion spatial transcriptomics Karl Zhanghao , Eastern Institute of Technology, Ningbo (China)

PIBM 2026 Topical Sessions

Afternoon Monday 20 July

<i>Location: Yazhou 崖州厅 1+2</i>	<i>Location: Fushan 富山厅</i>	<i>Location: Yazhou 崖州厅 3</i>
Translational Biophotonics 4	Immunophotonics 2	AI for Biophotonics
16:25-16:40 [TO- 10] Review and prospects of corneal topography-guided personalized laser corneal refractive surgery Shangbin Chen , Huazhong University of Science and Technology (China)		15:40-16:16 Best Student Paper Award Candidates' Flash-Oral Presentations (Group AIP)
16:40-16:55 [TO- 11] A motion-tolerant method for biomagnetic measurements with moving subjects in unshield environment Yinan Hu , Innovation Academy for Precision Measurement Science and Technology, CAS (China)		

PIBM 2026 Topical Sessions

Morning Tuesday 21 July

<i>Location: Yazhou 崖州厅 1+2</i>	<i>Location: Fushan 富山厅</i>
Translational Biophotonics 5	Analytical Biophotonics 3
<i>Chairs: Niancai Peng, Xi'an Jiaotong University (China); Yanyu Zhao, Beihang University (China)</i>	<i>Chairs: Minbiao Ji, Fudan University (China); Duo Lin, Fujian Normal University (China)</i>
8:50-9:10 [TI- 9] All-Optical IVUS-FFR Dual-Modal Imaging System for Precision Cardiovascular Care (invited) Pu Wang, Beihang University (China)	9:00-9:20 [AI- 8] The Molecular Biophysics of EGFR and PDGFR Systems in Regulating their Distinct Kinetics of Biochemical Signals through FRET imaging study (invited) Mingxing Ouyang, Changzhou University (China)
9:10-9:25 [TO- 12] Biomedical Microwave-Induced Thermoacoustic Imaging Huan QIN, South China Normal University (China)	9:20-9:40 [AI- 10] Ratiometric Polymer Dot Biosensor for Point-of-Care Metabolic Monitoring (invited) Haobin Chen, Central South University (China)
9:25-9:40 [TO- 13] Multispectral Photoacoustic Tomography for High-Precision Delineation of Thermal Ablation Zones in Subcapsular Hepatocellular Carcinoma Yihan Wang, Xidian University (China)	9:40-9:55 [AO- 2] Ice-Interface Optothermal Tweezers for Programmable Cryogenic Assembly and Biosensing Jiajie Chen, Shenzhen University (China)
9:40-9:55 [TO- 14] Sparse-Sampling Photoacoustic Imaging and Artifact Suppression Jiangbo Chen, South China University of Technology (China)	9:55-10:10 [AO- 3] Gene-Editing Proteins-based highly sensitive gene detection technologies Ru Huang, Hainan University (China)
9:55-10:10 [TO- 15] All-optical ultrasound detector for photoacoustic microscopy and computed tomography Pengfei Zhang, Tianjin University (China)	10:10-10:25 [AO- 4] Engineering Functional Protein-Based Sensing Platforms for Biomedical Applications Liu Fang, Hainan University (China)
10:10-10:25 [TO- 16] Co-registered Real-Time Intravascular Photoacoustic/Ultrasound/Optical Coherence Tomography for Characterization of Lipid-Rich Carotid Plaques Zhang Jinke, Shenzhen Institute of Advanced Technology, CAS (China)	
10:25-10:40 [TO- 17] Optical-resolution photoacoustic microscopy of tumor organoids Xiaofei Luo, Changsha University of Science and Technology (China)	
10:40-10:55 [TO- 18] Fiber-optic Photoacoustic Imaging for Human Peripheral Microcirculation Dynamic Monitoring Li Wei, Jinan University (China)	

PIBM 2026 Poster List

Neurophotonics

[NP-1] PIBM2026-0401-2

OCT-based three-dimensional multiparametric imaging of the cerebral microvasculature with deep-learning-assisted vascular segmentation

Hengming Jing¹; Weicheng Li¹; Junxiong Zhou¹; Jianbo Tang^{1*}

¹Department of Biomedical Engineering, Southern University of Science and Technology

[NP-2] PIBM2026-0406-11

468 nm blue light ameliorates sleep deprivation-induced neuronal injury by modulating mitochondrial Complex I-mediated energy metabolism

Chunyan Ma^{1,2}; Hongli Chen^{3*}

¹State Key Laboratory of Advanced Medical Materials and Devices, Tianjin Key Laboratory of Neuromodulation and Neurorepair, Integrative Regeneration Laboratory, Institute of Biomedical Engineering, Chinese Academy of Medical Sciences & Peking Union Medical College, Tianjin, 300192, China; ²State Key Laboratory of Separation Membranes and Membrane Processes & Key Laboratory of Hollow Fibre Membrane Materials and Membrane Processes, Tianjin Key Laboratory of Optoelectronic Detection Technology and Systems, Tiangong University, Tianjin, 300387, China; ³Chinese Academy of Medical

[NP-3] PIBM2026-0406-17

Two-Photon Imaging Reveals Developmental Dynamics of Neurovascular Coupling in Neonatal Mice

Lijie Zhang^{1,2}; Jiaru He¹; Xiaoli Lin^{1,3}; Tingting Zhu^{1,3}; Hongrui Zhan^{2*}; Zhihai Qiu^{1*}

¹Guangdong Institute of Intelligent Science and Technology; ²Department of Rehabilitation Medicine, The Fifth Affiliated Hospital of Sun Yat-sen University; ³Beijing Normal University

[NP-4] PIBM2026-0409-1

Sono-Magnetic-Activated Pyroelectric Catalytic Nanozymes for Glioblastoma Immunotherapy

Wang Cong¹; Wu Yundi¹; Wu Xilong^{1*}

¹Hainan University

[NP-5] PIBM2026-0415-2

Histo-SFST 3D Histoarchitectural Mapping of Pre-label-free Whole-organs at the Mesoscopic Scale Across Animal Species

Xiaojun Wang^{1*}; Jingyi Che¹; Jiajia Wang¹; Xinle Zhang¹; Yaoyuan Jiang¹; Xiaoyan Li¹; Xiao Chi¹

¹State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University

[NP-6] PIBM2026-0417-3

A head-mounted optically transparent skull (HOTS) window for deep transcranial imaging of the mouse cortex

Lina Liu¹; Yufeng Gao¹; Yuezhi He¹; Jiuling Liao¹; Yaozhang Sheng¹; Liang Wang¹; Shiwei Ye¹; Na Xiao¹; Xueming Cao¹; Ting Wu¹; Zonghua Wen²; Jun Chu³; Wei Zheng^{3*}; Hui Li^{3*}

¹Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences; ²Shenzhen University General Hospital; ³Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

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[NP-7] PIBM2026-0616-2

Synthesizing 3D Pathological Volumes Using GANs with a Prior Reference Atlas from fMOST

Wenkai Shang¹;Yibo Liu¹;Qinge Zheng¹;Jialu Jiang¹;Shuhan Yang¹;Xiangning Li^{1*}

¹State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University

[NP-8] PIBM2026-0627-4

Sono-magnetic triggered enhancement of pyroelectric catalytic nanozymes activity: Inducing disulfidptosis and immunotherapy via regulating molecular metabolism

Cong Wang¹;yundi Wu¹;xilong Wu^{1*}

¹Hainan University

[NP-9] PIBM2026-0405-5

High-Resolution Photoacoustic Tomography of Mouse Whole-Brain Microvasculature Enabled by Omnidirectional Fiber-Optic Ultrasound Sensing

XUE BAI^{1*};yizhi Liang¹;Bai-Ou Guan¹

¹Jinan University

[NP-10] PIBM2026-0406-4

SPAD-Based Depth-Enhanced Diffuse Correlation Spectroscopy Combined with Near-Infrared Spectroscopy for Cerebral Hemodynamics Measurement

Quan Wang¹;Zhen Yuan^{1*}

¹University of Macau

[NP-11] PIBM2026-0408-3

Study on theregulatoryeffect ofphotobiomodulation onmetaboliclevels andneuroinflammation indiabeticrats

Hui Chen¹;Hongli Chen^{2*}

¹Tianjin Medical University;²Institute of Biomedical Engineering, Chinese Academy of Medical Sciences & Peking Union Medical College

[NP-12] PIBM2026-0615-2

Whole-Brain Mapping of Cholinergic Circuits in Orofacial Motor Nuclei Revealing Ascending and Descending Dichotomy

Zhaoyang Meng¹;Hui Gong²;Xiangning Li^{3*}

¹Huazhong University of Science and Technology;²HUST-Suzhou Institute for Brainsmatics;³.Hainan University

[NP-13] PIBM2026-0617-1

Dynamic regulation and targeted intervention of vagus nerve-acetylcholine signaling in gastric cancer progression

Yongyao Song^{1*};Tianyu Bai¹;Ling Fu¹

¹School of Biomedical Engineering, State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, Hainan University, Haikou, Hainan

[NP-14] PIBM2026-0618-12

Automated reconstruction and quantitative vectorization of whole-brain neuronal projection pathways from fMOST imaging data

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Jinhong Jiang¹

¹. Hainan University

[NP-15] PIBM2026-0618-13

Graph neural network analysis of mouse basal ganglia circuits based on voxel-level input connectivity networks

Jiamin Lin^{1*}

¹Hainan university

[NP-16] PIBM2026-0618-26

Single-Neuron Reconstruction Based on Dynamic Snake Convolution and Geometric Topology Repair

Ganghua Huang¹;Chi Xiao^{1*}

¹Hainan University

[NP-17] PIBM2026-0618-28

The function role of axonal projection patterns of primary visual cortex neurons in innate defensive behavior

Deyong Gong¹;Wei Zhou¹

¹. Huazhong University of Science and Technology

[NP-18] PIBM2026-0618-6

Arapid vascular staining method for ex vivo thick tissues

Mengqi Ju¹; Miao Ren²; Xiangning Li^{2*}

¹. School of Biomedical Engineering, Hainan University ;²State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University

[NP-19] PIBM2026-0618-7

Tissue processing strategy for continuous submicron-resolution imaging of cerebral vascular networks

Tingting Qiu¹;Xiaonian Liu¹;Miao Ren¹;Xiangning Li^{1*}

¹State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University

[NP-20] PIBM2026-0401-3

Working memory-related brain network dysfunction after stroke and its modulation by tDCS: A fNIRS study

Qi Guo¹;Wenxuan Ji¹;Zhenhua Song²;Binbin Li²;Shaojin Wang³;Jing Jie^{1*};Ming Yin^{1*}

¹School of Biomedical Engineering, Hainan University;²Rehabilitation Medicine Department, Haikou People's Hospital;¹General Practice Department, Haikou People's Hospital

[NP-21] PIBM2026-0403-15

Dual-feature validated depth reconstruction enables accurate and fast two-photon volumetric imaging

Na Xiao¹;Yufeng Gao¹;Jinyi Liu^{2;3};Xueming Cao¹;Yaozhang Sheng¹;Lina Liu¹;Jia Yu¹;Zhuo Du^{2;3};Shiwei Ye^{1*};Hui Li^{1*};Wei Zheng^{1*}

¹Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences;²Institute of Genetics and Developmental Biology, Chinese Academy of Sciences;³University of Chinese Academy of Sciences

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[NP-22] PIBM2026-0522-1

Efficient Web-Based Three-Dimensional Visualization Method for Large-Scale Cerebrovascular Networks

Fangqi Deng¹;Yuxin Li^{1*};Tao Jiang²;Xiangning Li³;Anan Li^{2;3}

¹Shaanxi Key Laboratory of Network Computing and Security Technology, School of Computer Science and Engineering, Xi'an University of Technology;²HUST-Suzhou Institute for Brainmatics;³State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, School of Biomedical Engineering, Hainan University

[NP-23] PIBM2026-0611-1

Analysis of Cerebral Microvascular Morphological Characteristics in Alzheimer's Disease Mice

Xinghai Wang¹;Yuxin Li^{1*};Fangqi Deng¹;Tao Jiang²;Xiangning Li³;Anan Li^{2;3}

¹Shaanxi Key Laboratory of Network Computing and Security Technology, School of Computer Science and Engineering, Xi'an University of Technology, Xi'an;²HUST-Suzhou Institute for Brainmatics, Suzhou;³State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, School of Biomedical Engineering, Hainan University, Sanya

[NP-24] PIBM2026-0617-12

A Scalable Platform for Content-Aware Cleaning and Fast 3D Hyper-Compression of Petabyte-Scale Primate Brain Images

Shukang Bi¹;Chi Xiao^{1*}

¹Hainan University

[NP-25] PIBM2026-0618-18

Stage-dependent shifts in the causal contributions of cortical activity patterns during voluntary forelimb lever pushing

Tianyu qiao¹;xiangning li^{1*};miao ren^{1*}

¹State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University

[NP-26] PIBM2026-0618-29

Distinct Roles of Apical and Basal Dendrites in Shaping Spatiotemporal Tuning of Mouse V1 Pyramidal Neurons

Zican Wang¹

¹Huazhong University of Science and Technology

[NP-27] PIBM2026-0618-5

Structural and functional dissection of retrosplenial cortex layer 5 neurons

Bimin Liu^{1;2};Yuxiao Li^{1;2};Miao Ren^{1;2};xiangning Li^{1;2*}

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[NP-28] PIBM2026-0622-1

The Disinhibited Cortex as an Attractor: Altered Burst Initiation Reveals Focal Excitatory-Inhibitory Imbalance

Nan Li¹;Rongxin Li¹;Jing Li¹;Chaojia Chu²;Dan Li²;Hongtao Ma³;Weihong Lin²

¹the First Hospital of Jilin University;²The First Hospital of Jilin University;³Weill Cornell Medicine

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[NP-29] PIBM2026-0709-1

A spatially selective optical regulation system for photothrombotic cerebral ischemia modeling

Sun Tingyu¹; Li Pengcheng^{1,2}; Lu Jinling^{1*}

¹MOE Key Laboratory for Biomedical Photonics, Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan 430074; ²State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University, Sanya, Hainan, 572025

[NP-30] PIBM2026-0709-2

Time-scale-matched speckle contrast analysis for rapid OCT blood flow velocimetry

Yuanlong Wang¹; Jiachi Hong^{1,2}; Pengcheng Li^{1,2}; Jinling Lu^{1*}

¹MOE Key Laboratory for Biomedical Photonics, Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan 430074; ²State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University, Sanya, Hainan, 572025

Immunophotonics

[IP-1] PIBM2026-0629-3

In Vivo Imaging Reveals the Immunomodulatory Role of Exercise in Alleviating Chronic liver disease

hongying Jin¹

¹Hainan university

[IP-2] PIBM2026-0630-1

Early evaluation of hepatocellular carcinoma and liver metastasis of melanoma by multi-functional photoacoustic imaging

Yifan Guo¹

¹ Hainan University

[IP-3] PIBM2026-0415-5

Construction of photo/sono-responsive MOFs-based nanoplatfrom and their application in breast cancer therapy

Ke Gao¹; Dongbo Guo¹; Qin Xu¹; Maojun Wu¹

¹State Key Laboratory of Digital Medical Engineering, Sanya Research Institute of Hainan University, School of Biomedical Engineering, Hainan University, Sanya 572025, China

[IP-4] PIBM2026-0417-2

Structure-optimized cationic AIE photosensitizer-loaded gelatin/hyaluronic acid hydrogel for broad-spectrum anti-infective wound healing

Lu Zhang¹

¹Hainan University

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[IP-5] PIBM2026-0617-8

Photo-empowered macrophage-based drug delivery system overcomes motility suppression and significantly enhances deep tumor drug delivery

Fu Zhaoming^{1*}

¹Hainan University

[IP-6] PIBM2026-0618-3

A NIR-II AIEgen-Antibody Conjugate Enables Combined Photoimmunotherapy of Advanced Pancreatic Cancer

Jinxian Wu¹; Feifan Zhou^{1*}

¹Hainan University

[IP-7] PIBM2026-0408-1

Three-photon phosphorescence lifetime imaging of hypoxic tumor microenvironment

Jia Yu^{1,2}; Xueming Cao¹; Yufeng Gao¹; Na Xiao¹; Wei Zheng^{1*}

¹Shenzhen Institute of Advanced Technology; ²University of Macau

[IP-8] PIBM2026-0616-1

Development of a Deeply Integrated Single-Cell Multi-Omics Database for the Liver

Chen Shuwen¹

¹Hainan university

[IP-9] PIBM2026-0618-10

Potential targets and mechanisms of photobiomodulation for LPS-induced astrocytic neuroinflammation

xiaotong gu¹; feifan zhou^{1*}

¹Hainan university

[IP-10] PIBM2026-0417-1

Rational Design of a V-Shaped DNA-Targeted Photosensitizer Enables Endogenous DNA Damage-Driven cGAS-STING Activation and Systemic Antitumor Immunity

Yi Cai¹; Ya-Long Wang^{1*}

¹Hainan University

[IP-11] PIBM2026-0617-10

Deciphering the Spatiotemporal Evolution and Mechanisms of Subclonal Drug Resistance Heterogeneity in Liver Tumors via Multicolor Labeling Technology

jiahong hu¹

¹Hainan University

[IP-12] PIBM2026-0618-1

Quantitative longitudinal investigation of non-alcoholic steatohepatitis in mice by photoacoustic microscopy

jianshuang Wei¹

¹Hainan University

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[IP-13] PIBM2026-0629-4

A Systematic Integration Framework for Liver Single-Cell and Spatial Data Analysis

Shuwen Chen¹

¹Hainan university

Analytical Biophotonics & Agri-Photonics

[AP-1] PIBM2026-0401-4

TCPP-loaded DNA nanospheres with electrocatalytic amplification: amicrofluidic electrochemiluminescence sensor for rapid multibacterial detection

Chengli Zhang^{1,2,3}

¹Ningxia Medical University; ²Dermatology Hospital, Southern Medical University; ³Institute for Engineering Medicine, Kunming Medical University

[AP-2] PIBM2026-0405-11

Development of photo-induced pyroelectric-coupled SERS technology and its application in nasopharyngeal carcinoma subtyping

Duo Lin^{1*}; Yangmin Wu¹; Yanli Huang¹

¹Key Laboratory of OptoElectronic Science and Technology for Medicine, Ministry of Education, Fujian Provincial Key Laboratory for Photonics Technology, Fujian Normal University

[AP-3] PIBM2026-0405-15

Vision-driven optofluidics enables deterministic sample preparation for single-cell proteomics

Li Zonghao^{1*}; Zhang Shuailong¹; Fu Rongxin^{1*}

¹Beijing Institute of Technology

[AP-4] PIBM2026-0406-8

High-throughput biomarker evaluation with serum C-H stretching transient stimulated Raman spectroscopy

Qiaozhi Yu¹; Hanqing Xiong^{1*}

¹Peking University

[AP-5] PIBM2026-0618-16

Rapid One-Step Construction of DNA-Functionalized Gold Nanoparticle Probes Enabled by Microwave Drying Synergy

Guo Lixiang¹; Li Yanfeng¹; Gong Ruilin¹; Song Yunmao¹; Liu Fang^{1*}; Zhou Feifan^{1*}

¹State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, School of Biomedical Engineering, Hainan University, Sanya, Hainan 572024, China

[AP-6] PIBM2026-0621-1

Evaluation of SNSPD-based dual-detection system for time-resolved singlet oxygen luminescence and fluorescence detection

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Shengdong Cui¹; Sen Wang¹; Xianzeng Zhang¹; Timothy C Zhu²; Zheng Huang¹

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[AP-7] PIBM2026-0630-4

Needle-beam-assisted double-pulse laser capture microdissection with reduced collateral damage

TianSimo¹; HeZhiguo²; LiDongshu²; ShangFengqin¹; LiXiangning^{2;3}; GongHui³; LuoQingming²; YangXiaoquan^{2;3*}

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[AP-8] PIBM2026-0618-21

PCCT-based phenotypic trait detection and genetic applications in crop seeds

Yuyang Liu¹; Yuwei Lu^{1*}; Qian Liu^{1*}

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[AP-9] PIBM2026-0404-4

Quantitative analysis of maltodextrin adulteration in food additive ingredients based on Raman spectroscopy and machine learning

Shuo Huang^{1;2}; Youzhi Cao^{1;2}; Xudong Zhou^{1;2}; Zexian Zhao^{1;2}; Dongjie Zhang^{1;2;3;4}; Lin Shi^{1;2;3;4*}; Nan Wang^{1;2;3;4}; Qi Zeng^{1;2;3;4*}; Xueli Chen^{1;2;3;4}

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[AP-10] PIBM2026-0405-6

A compact PSPR biosensing platform with multidimensional Stokes-parameter enhancement for biomolecular detection

Duo Lin^{1*}; Shuohong Weng¹; Yuanyang Xie²

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[AP-11] PIBM2026-0406-3

Time-domain super-broadband stimulated Raman scattering spectroscopy and imaging

JIN GUO¹

¹Peking University

[AP-12] PIBM2026-0406-27

Efficient and Biocompatible Sperm Enrichment via Surface Acoustic Waves: An Exploratory Study

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Zhaoyan He¹;Zufang Huang^{1*}

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[AP-13] PIBM2026-0604-2

Label-free detection of cellular drug responses based on dynamic light scattering imaging

Meiai Lin^{1*};Linchun Xu²;Wanlin Xu¹

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[AP-14] PIBM2026-0616-4

Unveiling Chain-Length Dependent Targeting for Rational Development of Mitochondrial Cristae Probes

Niu Lixin¹;Jing Ning²;Hu Xiaohai²;Liu Kaiqiang²;Zhang Yuhui³

¹Shaanxi Normal University;²Huazhong University of Science and Technology;³zhangyh@mail.hust.edu.cn

[AP-15] PIBM2026-0617-9

Interfacial morphology shapes endothelial organization and function in a blood–brain barrier-on-a-chip

Zengting Li¹;Qihang Yang¹;Zhijun Tan²;Tingting Yu¹;Yufei Xue²;Bo Peng^{2;3*};Dan Zhu^{1*}

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[AP-16] PIBM2026-0618-23

Ome zarr v0.5 lightweight visualization: a microscopic data sharing scheme better than zoomify

Zhencheng Ren^{1*}

¹hainanu

[AP-17] PIBM2026-0402-4

Robust On-Axis Quantitative Phase Imaging via Stochastic Phase-shifting

Tao Yuan^{1;2;3;4*};Yachao Zhang^{1;5;2;3;4*}

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[AP-18] PIBM2026-0402-6

Fluorescence Lifetime Imaging Based on Pulsed Interleaved Excitation

Huimin Jiang¹;LIXIN LIU^{1*};Haoyang Yang¹;Jing Lu¹;Peng Gao¹

¹XIDIAN UNIVERSITY

[AP-19] PIBM2026-0403-10

NIR-II multifocal structured illumination microscopy with background suppression for deep-tissue super-resolution imaging

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Yiwen He¹;Chenshuang Zhang^{1*};Junle Qu¹;Bin Yu¹;Danying Lin^{1*}

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[AP-20] PIBM2026-0403-11

High-spatiotemporal-resolution Interferometric Scattering Microscopy via Multifocal Structured Illumination

Ziming Huang¹;Hongying Chang²;Guangpeng Ma¹;Hongwei Mi²;Huiqun Cao²;Danying Lin¹;Junle Qu^{1*};Bin Yu^{1*}

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[AP-21] PIBM2026-0403-12

Raman Imaging Analysis of Shuang-Huang-Lian-Induced Immuno-metabolic Modulation and Cell Cycle Arrest in Macrophages

Mengjie Wang¹;Rui Wang¹;Dongjie Zhang¹;Lin Shi¹;Nan Wang¹;Qi Zeng¹;Xueli Chen¹

¹Xidian University

[AP-22] PIBM2026-0403-14

Ribosome Affinity Carbon Dots for Live-Cell Imaging of Endoplasmic Reticulum

Jin-Xuan Fan¹

¹ Huazhong University of Science and Technology

[AP-23] PIBM2026-0403-7

Non-contact measurement of zebrafish heart rate based on video motion amplification and hybrid tracking

Jian Zou^{1*};Shufeng Zhuo¹;Kaihong Chen¹;Jingyi Zheng¹;Zhifang Li²

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[AP-24] PIBM2026-0403-9

Multifocal structured illumination microscopy for arbitrary curved surfaces

Xinqi Mo¹;Danying Lin¹;Bin Yu¹;Junle Qu¹

¹Shenzhen University

[AP-25] PIBM2026-0406-20

Magnetically Enriched 3D Free-Standing Membrane Platform for Ultrasensitive SERS Detection of Pathogenic Bacteria

Zhu Minhang¹;Huang Zufang^{1*}

¹Fujian Normal University

[AP-26] PIBM2026-0409-2

MBA-enabled SERS-LFIA for sensitive detection and quantitative analysis of SARS-CoV-2 RBD protein

Qingling Tang¹

¹Fujian Normal University

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[AP-27] PIBM2026-0412-1

Optical Biosensor Based on Fluorescent MgT MOFs and DNA Cube-Cas12a Coupled Signal Amplification System for Ultrasensitive Detection of CTCs

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[AP-28] PIBM2026-0412-2

Ultrasensitive Optical Biosensor Based on Fluorescent Nanotrees and DNA Molecular Prison@Cas12a Coupled Signal Amplification Technology for Precise Detection of ctDNA

huawei shen^{1*}

¹Chongqing City Hospital of Traditional Chinese Medicine

[AP-29] PIBM2026-0415-4

High-Performance Superconducting Nanowire Single Photon Detectors for Near Infrared Confocal, Two-Photon, and Time-Domain Diffuse Optics

Zijlstra Hein¹

¹Single Quantum

[AP-30] PIBM2026-0528-1

Nanoplastics Detected in Hospital-Sourced Infusion System

William Ji¹;Licheng Wang²;Liwu Zhang^{2*}

¹No.2 High School of East China Normal University;²Fudan University

[AP-31] PIBM2026-0610-3

SAP FISH: Highly Specific and Sensitive Imaging for Single-Cell Spatial Quantification

shujing Huang¹

¹ Huazhong University of Science and Technology

[AP-32] PIBM2026-0616-3

Albumin-Resistant Background-Free NIR Fluorescence Imaging via Hydroxyl Radical-Specific Cascade Oxidative Cyclization

Deming He¹;Minrong Huang¹;Le Liu¹;Chiyuan Wei²;Yuanqiang Sun²;Xing Wei¹;Lingchao He¹;Feiyi Wang³;Wei Chen^{1*}

¹Huazhong University of Science and Technology;²Zhengzhou University;³Hubei University

[AP-33] PIBM2026-0616-6

Thioxanthene-Based NIR-II Fluorophores and Ratiometric Probes for Bioimaging

Lingchao He¹;Xing Wei¹;Xian Zhang¹;Le Liu¹;Deming He¹;Wei Chen^{1*}

¹Huazhong University of Science and Technology

[AP-34] PIBM2026-0617-5

Phloxine B as a highly soluble absorbing molecule for enhanced in vivo tissue optical clearing

Jinkun Wang¹;Shaojun Liu¹;Xiang Zhong¹;Tingting Yu¹;Dan Zhu^{1*}

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[AP-35] PIBM2026-0618-20

High-strength porous hydrogels with sustained NO release properties for burn wound healing and microenvironment regulation

Xiaomin Ma¹;Zhengyu Chen¹;Wei Chen¹;Xingzhou Peng¹

¹Hainan University

[AP-36] PIBM2026-0618-8

STIM1 Interacting with MCU at ER-Mitochondria Contact Sites Contributes to Mitochondrial Fission via Ca²⁺ Transfer

Xiaohai Hu¹;Yuhui Zhang^{1*}

¹ Huazhong University of Science and Technology

[AP-37] PIBM2026-0707-1

In Vivo Label-free Investigation of Mitochondrial Dysfunction and Collagen Remodeling in Vitiligo Lesions

Xinhang Li¹;Junle Qu¹

¹Shenzhen University

[AP-38] PIBM2026-0707-2

Food dye induced optical transparency of chicken breast tissue

Serafim E. Solovlev¹, Valery V. Tuchin^{2,3,4}

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[AP-39] PIBM2026-0715-1

Photoacoustic Microscopy Image Denoising Based on EMD-Guided Block Matching and SVD Low-Rank Approximation

Zhixian Lin¹;Xiaoquan Yang^{1*};Lirui Liu²;Hui Gong²;Sihao Luo²

¹Key Laboratory of Biomedical Engineering of Hainan Province, School of Biomedical Engineering, Hainan University, Sanya 572025, China;²Wuhan National Laboratory for Optoelectronics, MoE Key Laboratory for Biomedical Photonics, Huazhong University of Science and Technology, Wuhan 430074, China

Translational Biophotonics

[TP-1] PIBM2026-0405-7

Line-scan dynamic OCT for high-throughput label-free drug screening

Lingxuan Meng¹;Shuaibin Chang¹;Xiuhua Zheng¹;Jianbo Tang^{1*}

¹Southern university of science and technology

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[TP-2] PIBM2026-0406-14

Common-path OCT–PDT integrated system with DMD modulation

YeJiong Shi¹;Ping Xue^{1*}

¹.Tsinghua University

[TP-3] PIBM2026-0406-18

In vivo whole-brain 3D ultrasound microvascular and photoacoustic molecular imaging with a standard linear array probe

Xiao Hu^{1;2;3};Yachao Zhang^{1;2;3;4;5*}

¹.The School of Biomedical Engineering (Suzhou), Division of Life Sciences and Medicine, University of Science and Technology of China;².The Suzhou Institute of Biomedical Engineering and Technology, Chinese Academy of Sciences;³.Jiangsu Key Laboratory for Advanced Theranostics and Medical Instrumentation;⁴.Key Laboratory of Biomedical Imaging Science and System, Chinese Academy of Sciences;⁵.State Key Laboratory of Biomedical Imaging Science and System

[TP-4] PIBM2026-0406-21

Optical computing based on dispersion for low-cost 4D optical coherence tomography with 10MHz A-line rate

Ping Xue^{1;2*};Ruizhi Xue^{3;2}

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[TP-5] PIBM2026-0414-1

Multiscale Imaging and Optomechanical Simulation of Femtosecond Laser Modification towards Presbyopia in Ageing Eye

Zhuoyu Zhang¹;Jionghang Zhang¹;Yujie Liu¹;Jiale Li¹;Honghao Wang¹;Yaping Shi¹;Xiaohua Lv¹;Xu Feng^{1*};Shaoqun Zeng¹

¹Huazhong University of Science and Technology

[TP-6] PIBM2026-0617-2

Hybrid confocal Raman micro-endoscopic imaging technology

Wei Yang¹;Peng lei Liu¹

¹Hainan University

[TP-7] PIBM2026-0404-8

Energy spectrum calibration method for photon-counting Micro-CT and its application in mouse cerebrovascular imaging

Yihao Zhao¹;Enze Zhou^{1;2};Yi Feng¹;Hanfei Xu¹;Tianwu Xie³; Shaoyang Wang^{1*};Qian Liu¹

¹Hainan University;²Huazhong University of Science and Technology;³Fudan University

[TP-8] PIBM2026-0404-9

Preliminary investigation of photon-counting micro-CT for in-vivo cerebrovascular imaging in mice

Feng Yi¹;Enze Zhou^{2;1};Yihao Zhao¹;Hanfei Xu¹;Linhan Yang¹;Shaoyang Wang¹;Qian Liu¹;Tianwu Xie³

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¹Hainan University;²Huazhong University of Science and Technology;³Fudan University

[TP-9] PIBM2026-0405-20

A MEMS-based handheld dual-modal microscope integrating photoacoustic and optical coherence tomography

Lei Zhang^{1;2}; Qian Chen^{1;2}

¹Beijing Institute of Technology; ²Chongqing Institute of Microelectronics and Microsystems, Beijing Institute of Technology, Chongqing

[TP-10] PIBM2026-0406-29

A non-rotary PZT-driven cone-mirror scanning endoscopic OCT/OCTA probe for intraluminal imaging

Yuan Rui¹

¹Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

[TP-11] PIBM2026-0406-9

An ultracompact 3D confocal laser endoscope integrated with an electrothermal MEMS micromirror featuring a central opening

Yu Silei^{1;2}; Chen Qian^{1;2*}

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[TP-12] PIBM2026-0508-1

Deep-Tissue Polarization Recovery via Dichroic Photoacoustic-Guided Wavefront Optimization

Wei Chen¹; Zhenghui Zhang¹; Sihua Yang^{1*}

¹South China Normal University

[TP-13] PIBM2026-0510-1

Robust hybrid feature-driven on-the-fly mapping enables freehand 3D panoramic photoacoustic angiography

Xin Haishu¹; Yang Sihua^{1*}

¹South China Normal University

[TP-14] PIBM2026-0617-3

NSCLC-Induced Reorganization of Platelet α -Granules Drives a Machine Learning Diagnostic Platform for Early Cancer Detection

Ning Jing¹; Yu-Hui Zhang^{1*}

¹Huazhong university of science and technology

[TP-15] PIBM2026-0403-4

Intravascular OCT-Guided 355nm Laser Ablation for In-Stent Restenosis: A Preclinical Feasibility Study in a Porcine Heart Model

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[TP-16] PIBM2026-0405-12

Development and Optimization of a Wireless Capsule System for Photodynamic Therapy of Helicobacter pylori

Jinze Li¹; Huijuan Yin^{1*}

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[TP-17] PIBM2026-0405-14

Fluoreneacetic Acid-Conjugated Silicon Phthalocyanine for Enhanced Cellular Uptake and Photodynamic Therapy in Pancreatic Cancer

Jianling Chen^{1*}; Yiru Peng^{1*}; Weiqi Pan¹; Hongshuo Liang¹; Kuizhi Chen¹

¹Fujian Normal University

[TP-18] PIBM2026-0405-18

An electrothermal-MEMS-based large-field-of-view confocal laser endomicroscopy

Luyang Huang^{1,2}; Qian Chen^{1,2*}

¹Beijing Institute of Technology; ²Chongqing Institute of Microelectronics and Microsystems, Beijing Institute of Technology

[TP-19] PIBM2026-0405-21

Two-Photon Fluorescence Imaging of Gold Nanobipyramids for In Vivo Glioma Detection

Zhaoyi Li¹; Zhaoyang Cheng¹; Dongjie Zhang^{1*}; Xueli Chen^{1*}

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[TP-20] PIBM2026-0405-3

Aspirin-Amide-Piperazine-Substituted Silicon Phthalocyanine for Dual Organelle-Targeted Photodynamic Therapy and Fluorescence Imaging

Jianling Chen^{1*}; Yiru Peng^{1*}; Hongshuo Liang¹; Weiqi Pan¹; Kuizhi Chen¹

¹Fujian Normal University

[TP-21] PIBM2026-0406-5

Improving Deep Tumor Vasculature Detection in SBH-PACT via Coherence Factor-Based Beamforming

Wenjie Jia¹; Hu Liya²; Tun Liu¹; Ying Chen¹

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[TP-22] PIBM2026-0406-16

All-Fiber Photoacoustic Endomicroscopy Reveals Layer-Specific Angiogenesis-Oxygenation Uncoupling in Experimental Colitis

Li Jinying^{1,2,3}; Bi Junye^{1,4}; Zhang Di^{1,3,5}; Liang Yizhi^{1,4*}

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[TP-23] PIBM2026-0406-28

Multiphoton Microscopy Reveals Spatially Resolved Lamina Propria Collagen Alterations Beneath Esophageal Squamous Lesions

Qihang Zhou¹

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[TP-24] PIBM2026-0406-7

Improving Deep Tumor Vasculature Detection in SBH-PACT via Active Interference Cancellation

Wenjie Jia^{1*};Hu Liya²;Tun Liu³;Ying Chen⁴

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[TP-25] PIBM2026-0415-1

NIR-II fluorescence lifetime mesoscopy for quantitative detection of tumor margins

Jiuling Liao^{1*};Wei Zheng¹

¹Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

[TP-26] PIBM2026-0616-5

CFD/FSI-Guided Design and Optimization of a Pressure-Regulated Composite Glaucoma Drainage Stent

Ruonan Bian¹;Shaoqun Zeng¹

¹Huazhong University of Science and Technology

[TP-27] PIBM2026-0707-3

NIR - II Fluorescence Surgical Navigation for Gastric Cancer: Systematic Preclinical Validation Toward Clinical Application

Xiaolong Liu¹;Zhe Feng²;Hui Lin^{1*}

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[TP-28] PIBM2026-0708-1

Orally Administered NIR-II AIEgen Nanoparticles for Targeted Gut – Brain Axis Photothermal Stimulation to treat Metabolic Dysfunction-associated Steatotic Liver Disease

Yujie Li¹

¹Zhejiang University

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AI for Biophotonics

[AIP-1] PIBM2026-0402-2

Graph Convolutional Networks for Single-Shot Super-Resolution Reconstruction in Fibonacci Photoacoustic computed tomography

Zhibo Xiao^{1,2};Xiali Gao^{3,2};Yang Xiao²;Hao Huang^{4,2};Fan Meng^{3,2};Xuanhao Wang^{2,5*};Junhui Shi^{3,2,5*}

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[AIP-2] PIBM2026-0403-3

H&E and MPM image fusion based on generative adversarial network for breast cancer diagnosis

Tao Liu¹;Jianxin Chen^{1*}

¹-Key Laboratory of OptoElectronic Science and Technology for Medicine of Ministry of Education, Fujian Provincial Key Laboratory of Photonics Technology, College of Photonic and Electronic Engineering, Fujian Normal University, Fuzhou 350007, China

[AIP-3] PIBM2026-0404-6

Enhancing Ring-Array Ultrasound and Photoacoustic Dual-Modality Reconstruction via Self-Supervised Deep Learning-Based Signal Interpolation

Hao Huang¹;Zhibo Xiao¹;Xiali Gao¹;Yang Xiao²;Fan Meng¹;Xuran Zhou¹;Xuanhao Wang^{2*};Junhui Shi^{2*}

¹-College of Biomedical Engineering & Instrument Science, Zhejiang University;²-Zhejiang Lab

[AIP-4] PIBM2026-0405-19

AI-driven label-free exfoliated tumor cells identification using hyperspectral single-cell optofluidic

Hanqi Hu¹;Zongliang Guo¹;Siyi Hu²;Mengjie Li³;Tao Zhao¹;Hang Li¹;Kangfu Chen¹;Shuailong Zhang^{1*};Haixia Li^{3*};Rongxin Fu^{1*}

¹-Beijing Institute of Technology;²-Suzhou Institute of Biomedical Engineering and Technology, Chinese Academy of Sciences;³-Department of Clinical Laboratory, Peking University First Hospital

[AIP-5] PIBM2026-0405-22

Elucidating lipid droplet morphology-function relationships during photodynamic therapy via fluorescent probe imaging and deep learning-based instance segmentation

Liu Bingyang^{1,2};Peng Yiru¹;Yang Hongqin¹

¹-Fujian Normal University;²-Sanming University

[AIP-6] PIBM2026-0405-4

Multi-Label Automatic Recognition of Tumor-Associated Collagen Signatures in Multiphoton Microscopy Images

Longhui Hou¹

¹- College of Photonic and Electronic Engineering, Fujian Normal University

[AIP-7] PIBM2026-0406-15

Physics-informed multi-encoder adaptive optics enables rapid aberration correction for intravital microscopy of

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deep complex tissue

Xiangzhang Cheng¹; Sicong He^{2*}

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[AIP-8] PIBM2026-0406-6

Enhanced Deep-Tissue Imaging Quality in Hemispherical PACT via Automated First-Arrival Wavefront Mapping for Speed-of-Sound Compensation

Xuran Zhou¹; Xiali Gao¹; Fan Meng¹; Hao Huang¹; Zhibo Xiao¹; Xuanhao Wang^{2*}; Junhui Shi^{1*}

¹Zhejiang University; ²Zhejiang Lab

[AIP-9] PIBM2026-0519-1

VesselSpec: Spectral-Adaptive Foundation Model for Cerebrovascular Segmentation in Micro-PCCT

Huang Siyi¹; Zhou Enze²; Xie Tianwu^{1*}

¹Fudan University; ²Huazhong University of Science and Technology

[AIP-10] PIBM2026-0617-7

A hybrid efficient Transformer network for gland segmentation in confocal laser endomicroscopy

Yifan Chen¹; Jingjun Zhou^{1*}; Qian Liu^{1*}

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[AIP-11] PIBM2026-0618-25

Adapting MedSAM for Neuronal Soma Segmentation via Multi-Model Ensemble Self-Training

Liangbo Song¹

¹School of Biomedical Engineering, Hainan University

[AIP-12] PIBM2026-0618-27

Reconstruction and Automated Quantitative Analysis of Intestinal Villi from Three-Dimensional Optical Microscopy Images

Li Liu¹; Zhencheng Ren¹; Zixuan Zhou¹; Anan Li^{1;2;3*}

¹State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, School of Biomedical Engineering, Hainan University; ²HUST-Suzhou Institute for Brainmatics, JITRI; ³Wuhan National Laboratory for Optoelectronics, MoE Key Laboratory for Biomedical Photonics, Huazhong University of Science and Technology

[AIP-13] PIBM2026-0404-2

AI-Enhanced Lensless Portable Cell Counter

E Du^{1*}; Weizu Zhang¹; Zhipeng Huang¹; Keming Tan¹; Shiguo Li¹; Weifeng Zhang¹; Guoqing Wang¹; Shengfeng Zeng²; Shuhao Shen^{2*}

¹Shenzhen University of Information Technology; ²Xidian University, Guangzhou Institute of Technology

[AIP-14] PIBM2026-0404-3

Anatomy-aware spatio-temporal implicit neural representation for continuous photoacoustic tomography reconstruction and segmentation

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Yutian Zhong¹;Jinchuan He²;chaobin hu³;li qi^{2*}

¹Southern Medical University;²southern medical university;³Southern medical university

[AIP-15] PIBM2026-0405-1

SwinUNETR-ADMM framework enhances zero-Shot 3D vascular photoacoustic imaging in vivo

Fan Meng^{1,2};Junhui Shi^{1;2*}

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[AIP-16] PIBM2026-0604-1

Intelligent identification of single-cell drug responses based on dynamic light scattering speckle videos

Cong Xiao¹;Wanlin Xu¹;Meiai Lin¹;Xiangyuan Ma¹

¹Shantou University

[AIP-17] PIBM2026-0604-3

End-to-End Automated Characterization Framework for Dynamic Flow Light Scattering Videos Based on Deep Learning and Domain Adaptation

Pengfei Gao¹;Meiai Lin²;Linchun Xu^{3*}

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[AIP-18] PIBM2026-0618-14

Deep learning-based super-resolution reconstruction and three-dimensional analysis of neuromuscular junction fluorescence volumes

Yujia Kang¹;Xizhi Meng¹;Tingting Yu¹;Zhengrui Wang¹;Yuening He¹;Dan Zhu^{1*}

¹Huazhong University of Science and Technology

[AIP-19] PIBM2026-0618-17

High-Resolution Photon-Counting CT Imaging and Systemic Mapping of the Mouse Cerebrovasculature

Zongyin He¹;Feng Yi¹;Qian Liu¹;Ling Fu¹;Shaoyang Wang^{1*};Enze Zhou²

¹Hainan University;²Huazhong University of Science and Technology

[AIP-20] PIBM2026-0618-9

SparsePath-CTNet: A direction-aware hybrid network for sparse-view PCCT image reconstruction

Jiaxuan Xu¹;Jingjun Zhou^{1*};Ling Fu¹;Qian Liu¹;Shaoyang Wang¹;En Zhou¹

¹School of Biomedical Engineering, State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, Hainan University, Haikou, Hainan, China

[AIP-21] PIBM2026-0331-2

Quantitative Analysis of Cryptotanshinone in Salvia miltiorrhiza via MLR Background Correction of Raman Spectra

HuiKang Wu^{1;2;3;4};DongJie Zhang^{3;1;2;4*};Qi Zeng^{3;1;2;4*};XueLi Chen^{3;1;2;4};Nan Wang^{3;1;2;4};Lin Shi^{3;1;2;4};MengJie Wang^{3;1};Rui Wang^{3;1}

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¹Xi'an Key Laboratory of Intelligent Sensing and Regulation of trans-Scale Life Information, School of Life Science and Technology, Xidian University, Xi'an, Shaanxi 710126, China.;²Guangzhou Institute of Technology, Xidian University, Guangzhou, Guangdong 510555, China.;³Advanced Diagnostic-Therapy Technology and Equipment Key Laboratory of Higher Education Institutions in Shaanxi Province, School of Life Science and Technology, Xidian University, Xi'an, Shaanxi 710126, China.;⁴State Key Laboratory of Electromechanical Integrated Manufacturing of High-Performance Electronic Equipment, Xidian University, Xi'an, Shaanxi 710071, China.

[AIP-22] PIBM2026-0331-7

ARA-Net: Atlas-Guided Region Attention for Interpretable Alzheimer's Disease Diagnosis from Structural MRI

Zhao Yuanqin¹

¹Tsinghua University

[AIP-23] PIBM2026-0402-5

Automatic Identification and Precise Segmentation of Calcified Nodules in IVOCT Based on Self-Supervised Pretraining and Parameter-Efficient Fine-Tuning

Jinliang Hu¹;Qin Li^{1*}

¹School of Medical Technology, Beijing Institute of Technology

[AIP-24] PIBM2026-0403-5

ResMNet: an Efficient Multi-scale Mixed Convolutional Neural Network for OCT Retinal Image Classification

Minghui Chen^{1*};Qian Cai¹;Shuting Ke¹;Wenfei Ma¹;Jintao Niu¹;Gu Zhensheng²

¹Shanghai Engineering Research Center of Interventional Medical Device, the Ministry of Education of Medical Optical Engineering Center, School of Health Sciences and Engineering, University of Shanghai for Science and Technology;²Department of Ophthalmology, Xinhua Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai 200092, China

[AIP-25] PIBM2026-0403-6

A deep learning unmixing with spectral correction and noise reduction for multiplexed fluorescence imaging

Wensong Li¹;Yong Deng^{1*}

¹Huazhong University of Science and Technology

[AIP-26] PIBM2026-0404-1

Cross-species and multimodal cell-state trajectory modeling in brain aging and Alzheimer's Disease

Yang Changwen¹

¹Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology

[AIP-27] PIBM2026-0404-7

A Spectral-Adaptive Framework for Cerebrovascular Segmentation in Photon-Counting Micro-CT using 3D Foundation Models

XIE Tianwu¹;Liu Xiuping²;Huang Siyi¹

¹Fudan University;²Guangdong Jiangmen Chinese Medicine College

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[AIP-28] PIBM2026-0405-2

A deep learning framework with sparse masked pretraining for robust and generalizable ear feature detection

Lijun Bai^{1*}

¹Xi'an Jiaotong University

[AIP-29] PIBM2026-0407-1

Imaging Consistency Guided Aberration Correction for In Vivo Deep Tissue Optical Imaging

Yuxi Deng¹;Hu Zhenhua^{1*}

¹Institute of Automation, Chinese Academy of Sciences

[AIP-30] PIBM2026-0407-2

A World-Model-driven Vision Speculation Framework for High-throughput Fluorescence Microscopy

Qiushi Huang^{1,2};Zhenhua Hu^{1,2}

¹Beijing Key Laboratory of Molecular Imaging Technology Research and Translation, Institute of Automation, Chinese Academy of Sciences, Beijing 100190;²School of Artificial Intelligence, University of Chinese Academy of Sciences, Beijing 100049

[AIP-31] PIBM2026-0407-3

Diffusion-Based Model for Fluorescence Image Enhancement

Jinze Zhao^{1,2};Zhenhua Hu^{1,2}

¹Beijing Key Laboratory of Molecular Imaging Technology Research and Translation, Institute of Automation, Chinese Academy of Sciences;²School of Artificial Intelligence, University of Chinese Academy of Sciences

[AIP-32] PIBM2026-0522-2

Segmentation of Cerebral Microvessels in Alzheimer's Disease Based on Mamba

Zhe Zhou¹;Yuxin Li^{1*};Weijie He¹;Fangqi Deng¹;Anan Li^{2,3};Xiangning Li³;Tao Jiang²

¹Shaanxi Key Laboratory of Network Computing and Security Technology, School of Computer Science and Engineering, Xi'an University of Technology;²HUST-Suzhou Institute for Brainmatics;³State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, School of Biomedical Engineering, Hainan University

[AIP-33] PIBM2026-0618-11

Histological Feature Distillation for Unpaired CLE-to-H&E Virtual Staining

Dongfan Zhang¹;Jingjun Zhou^{1*};Ling Fu¹

¹School of Biomedical Engineering, State Key Laboratory of Digital Medical Engineering, Key Laboratory of Biomedical Engineering of Hainan Province, Hainan University, Haikou, Hainan, China

[AIP-34] PIBM2026-0618-22

Perceptual Reconstruction with Explainable Quality Assessment for High-Throughput Biomedical Imaging

Xinbo Zhang¹;Yihui Luo¹;Hongqin Liu¹;Anan Li¹;Chi Xiao^{1*}

¹ Hainan University

[AIP-35] PIBM2026-0618-24

PGRMamba: Geometry-Guided State Space Models for 3D Soma Detection in Large-Scale Whole-Brain Images

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Zibin Cai¹;rou li¹;Yan Jiang¹;Mengting Zhao¹;Anan li¹;Chi Xiao¹;Jiamin lin¹

¹School of Biomedical Engineering, Hainan University

[AIP-36] PIBM2026-0629-1

OCTSAM: A joint denoising and segmentation framework for retinal OCT image analysis

Xingdao He^{1*};Bo Ji^{2*};Yidi Wang²;Sizhu Ai³;Yuxin Zhao¹

¹Nanchang Hangkong University;²Beihang University;³Tianjin University

[AIP-37] PIBM2026-0709-3

Virtual DWI Synthesized from Non-contrast CT for Rapid Diagnosis of Acute Ischemic Stroke

Wenzhi Lv¹;Pengcheng Li^{2*}

¹MOE Key Laboratory for Biomedical Photonics, Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology;²State Key Laboratory of Digital Medical Engineering, School of Biomedical Engineering, Hainan University

Note

Sanya Yazhou Bay Science and Technology City

Sanya Yazhou Bay Science and Technology City (YZBSTC) is located in the west of Sanya City, Hainan Province. The overall planning area is 69.3 square kilometers. Focusing on the overall scheme requirements of Hainan Free Trade Port, it focuses on Seed Breeding Industry, Deep Sea Technology planning for industrial layout. YZBSTC is an important growth pole for Sanya to cultivate new forms of industrial transformation, activate new kinetic energy of economic development, and build a new benchmark for the construction of free trade ports. It is one of the key parks of Hainan Free Trade Port.

YZBSTC is located in the sea and has convenient transportation. It plans and layouts two major spatial plates of Seed Breeding Industry, Deep Sea Technology. The key layout of "one town, one base, one valley" in Seed Breeding Industry includes Nanfan Breeding Sci-tech Town, the Innovation and Cooperation Base of Global Animal and Plant Seed Industry, Biological Valley. Deep Sea Technology layout of "one town, one port" includes Deep-sea Sci-tech Town and Nanshan Port.

YZBSTC is vigorously pursuing two key priorities: technological innovation and industrial development. It emphasizes the deep integration of "production, education, research, and urban development" strategically lays out significant technological infrastructure and industrial platforms, and accelerates the consolidation of resources from various stakeholders. The goal is to build a leading science and technology new town dominated by Seed Breeding Industry, Deep Sea Technology, and jointly developed by Life Science, Digital Economy and other industries.





崖州湾科技城

游玩攻略

01 星海party夜市

营业时间: 17:30-01:00

以年轻、时尚、潮酷、狂欢为标签，以打造崖州湾微度假首站、夜间生活新地标为目标，“露营+商业”的创新模式，营造一个开放包容、业态多元、极具特色的营地式潮流夜市。

02 百泰商业街

营业时间: 10:00-01:00

本地特色网红烤肉主推特色牛胸口、南海创味本土特色海鲜餐厅、余餐厅拥有海南特色早餐“粉汤”一绝等特色美食，轰炸你的味蕾，感受崖州本地海南特色，回味无穷。

03 四美居湘菜海鲜餐厅

营业时间: 10:00-17:00

立足于海南的区域性湘菜平牌。使用湖南成坛剁椒，直接在海南海鲜体验湖南的味道，改良了多油多盐的烹饪方式，水汁留鲜。本土本味，辣而不烈，健康湘菜。

04 Y-life cafe(8家)

营业时间: 09:00-22:00

目前已开设8家门店，选用阿拉比卡一级精品咖啡豆，是风味表现最好、生长批次最佳的咖啡豆。不定期上新季节限定、节日特调、创意饮品等咖啡新品。「啡」常推荐：薄荷拿铁、生椰拿铁、深海先生、南繁蜜桃。

05 创味·民间海南菜(南山店)

营业时间: 11:00-21:30

正宗海南菜，清淡爽口，甜糯鲜美。海南粉为必点菜品，细软滑嫩的粉条搭配上秘制海南本地黄辣椒酱，打破对固有海南菜的印象。

06 南山有鱼养生菜馆

营业时间: 11:00-21:30

位于美丽乡村中的私房菜馆，环境幽静，装修独特，整体价格偏贵，菜量较大，适合团建活动后聚餐。鱼使用纯正野生鱼，做法具有南山本地特色。

07 海上风情饭店

营业时间: 11:00-21:00

主推海鲜，基本为内地少见的品种，加工往往为最简单的方式，尽可能的还原食材的原汁原味。

08 崖州湾海洋休闲运动公园

营业时间: 7:30-19:00

提供10000平方米的公共海水浴场，还有摩托艇、水上飞人等丰富多彩的海上娱乐活动可供游玩，18点后前往可看到崖州湾最美夕阳。

09 南山文化旅游区

营业时间: 08:00-17:00

被佛家称为吉祥福泽之地，南山寺是一座仿古盛唐风格居山面海的大型寺院，高108米的南山海上观音是世界最大的白衣观音三面立体造像。

10 大小洞天旅游区

营业时间: 07:30-18:30

自古因其奇特秀丽的海景、山景、石景与洞景被誉为“琼崖八百年第一山水名胜”，是生态品质游憩地、一站式浪漫休闲度假区和青少年文体休闲游憩地。

11 翠萍农家海鲜饭店(南山海边店)

营业时间: 10:00-15:00, 17:00-22:00

农家乐式餐馆，价格较高，海鲜也更为新鲜。吃饭的位置依山傍海，可以在此欣赏到海上绝美的落霞，周末也可以来此吹吹海风，享受大自然带来的快乐。

12 崖州招商花园里(商业街)

营业时间: 10:00-22:00

花园里进驻了超40家品牌，丰富的品牌阵容体现在零售、餐饮、儿童、生活服务等多个业态，级次搭配丰富，能够满足消费者不同生活消费场景。如：万达影城、旺家超市、华为、星巴克等多家知名品牌。



01 星海party夜市

地址：新道街与创新路交界处

04 Y-life cafe(8家)

地址：产业促进中心首店/希尔顿店/和光花园店
云海台店/滨海店/深海壹间店/城市公园店
雅布伦店/科创店

07 海上风情饭店

地址：崖州区海南环岛高速南山文化旅游区
释海旅租南50米

10 大小洞天旅游

地址：三亚市崖州区

02 百泰商业街

地址：裕民路与振州路交界处

05 创味·民间海南菜(南山店)

地址：崖州区直轄村级区划科技城百泰
生物科技园4号楼101铺面

08 崖州湾海洋休闲运动公园

地址：新道街与30号路交叉口西南340米

11 翠萍农家海鲜饭店(南山海边店)

地址：崖州区港口公路三亚释海旅租
南行120米路西

03 四美居湘菜海鲜餐厅

地址：崖州区振州路百泰生物科技
有限公司4号楼105、106商铺。

06 南山有鱼养生菜馆

地址：崖州区南山村委会旁

09 南山文化旅游区

地址：崖州区南山村

12 崖州招商花园里(商业街)

地址：创意路与裕民路交叉口

Acknowledgement



多模态显微成像系统



滚滚长江东逝水

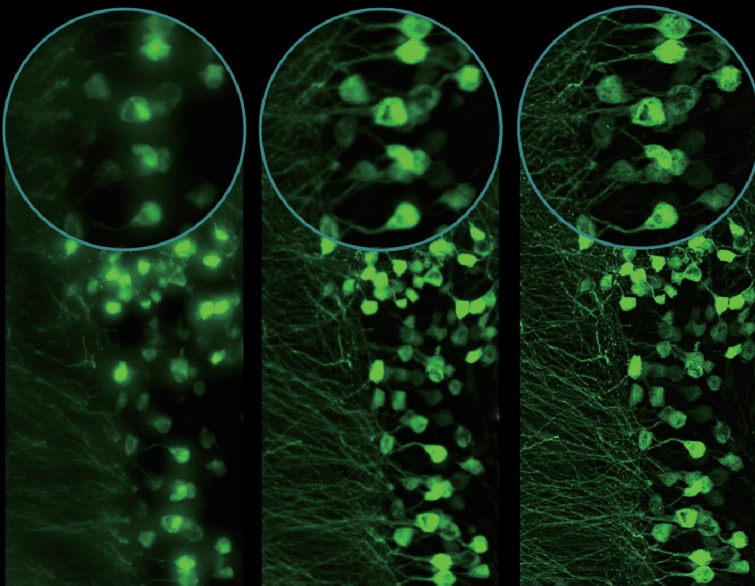
X-Light V3+DeepSIM
转盘+超分辨



滚滚WF

V3 Confocal

DeepSIM



DeepSIM 基于专利独有的晶格光SIM技术
分辨率可达100nm，Z分辨率可达300nm；

High throughput | 高通量模式

- 活细胞成像；单层细胞；薄样品
($< 50 \mu\text{m}$)

Standard | 标准模式

- 培养3D细胞；小型模式生物(线虫)或组织
($< 100 \mu\text{m}$)

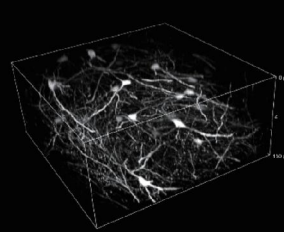
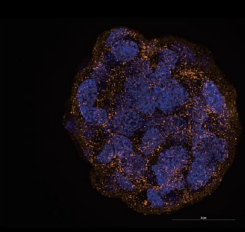
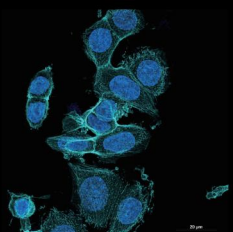
Deep Imaging | 深度成像模式

- 模式动物；类器官；透明化样品
($> 100 \mu\text{m}$)

High throughput
高通量模式

Standard
标准模式

Deep Imaging
深度成像模式



南京衡桥仪器有限公司
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滨松助力 中国生物医学光子学发展

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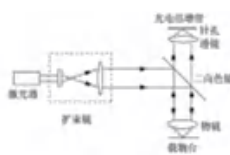
分子影像 设备



显微光学切片断层 成像系统



激光共聚焦 系统



双光子显微 成像系统



多光子显微 成像系统



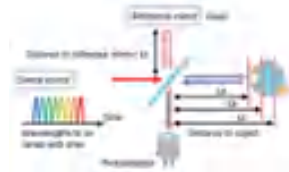
超分辨显微 成像系统



光片显微 成像系统



OCT 设备



气体光源



激光驱动白光光源



超连续谱激光器



微焦点 X 射线源



极紫外 (EUV) 和软X射线源



固体激光器



飞秒激光器



空间光调制器



MEMS 振镜



闪烁晶体 (国产)



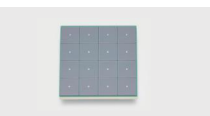
光子晶体光纤



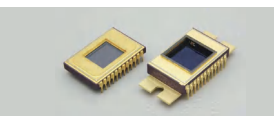
超快光纤



PMT



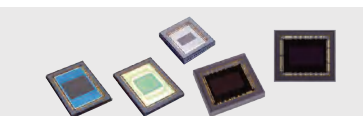
MPPC (S××××××)



图像传感器 (S××××××-×××××)



PMT (国产)



科研级 sCMOS 芯片



PMT 模块 (H××××××P-×××)



半导体模块 (C××××××/C××××××)



科研级 sCMOS 相机 (C××××××)



Quest 光子定量相机 (C××××××)



近红外 InGaAs 相机 (C××××××-×××)



MAICO 共聚焦模块



光影细胞

专注于生命科学研究中的影像技术应用

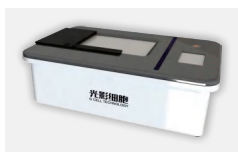
广州光影细胞科技有限公司 (GCell) 依托清华大学深圳研究生院与华南师范大学的跨学科研发团队, 聚焦生命科学影像技术创新。公司凭借顶尖高校的科研实力与多学科交叉优势, 致力于将先进影像技术转化为高效科研工具, 为生命科学研究提供关键支撑。Gcell构建了覆盖算法、硬件与系统的立体化技术体系, 开发智能实验室设备及解决方案, 推动基础研究向应用转化。以“技术赋能科研”为使命, 公司持续探索影像技术前沿, 立志成为全球生命科学领域的核心技术服务商。



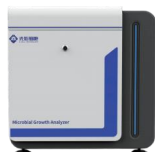
产品介绍

Product Introduction

细胞分析



活细胞智能扫描分析仪



微生物生长曲线分析仪

组织成像



组织全景扫描仪 (明场)



组织全景扫描仪 (荧光)

行为分析

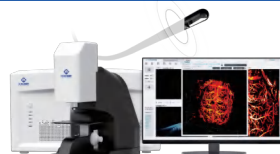


动物轨迹追踪分析系统



小动物步态分析系统

活体成像



高分辨光声多模成像系统



小动物微波热声成像系统



应用领域

Application Areas



资质荣誉

Qualifications and Honors

- 创新型中小企业
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公司邮箱: gc@g-cell.cn



美国科洛玛技术公司



美国科洛玛技术公司于1991年成立于美国佛蒙特州，专门从事高精度光学镀膜，致力于生产精确波谱控制，高信噪比，陡斜率，及高激光损伤阈值的滤光片，

产品范围非常广泛，包括紫外，可见和近红外的各种滤光片，其中有带通，多波段带通，长通，短通，陷波，二向分光镜等。自公司成立之日起，一直与全球范围顶级科学家及生产商家密切合作，力图在显微成像领域提供最好的解决方案。

美国科洛玛技术公司目前是四个主要显微镜厂家的首要供应商。除了荧光显微镜外，我公司还是很多其它生物类仪器，医疗仪器，药物研究，机器视觉，天文和激光类仪器厂家的供货商。其中包括基于荧光应用的荧光定量PCR，DNA测序仪，芯片扫描仪，流式细胞仪，酶标仪，拉曼光谱仪，多色FISH等生产厂家。

如何选择合适的荧光滤光片？请回答以下问题，

- 1) 使用何种光源？如汞灯、LED、激光等。
- 2) 所需透射和反射/阻挡的波长范围及深度是多少？
- 3) 使用何种荧光染料？激发和发射波段是多少？
- 4) 显微镜的型号是什么？大小及厚度有什么要求？
- 5) 镜片的平整度/两面平行度/表面洁净度有无要求？
- 6) 有无特殊应用？如TIRF，FISH，FRET，双光子，超分辨，拉曼，CARS，SRS等。

产品包括：

19000系列：AT磁控溅射长通

39000系列：AT磁控溅射带通

▶ 39100系列：AT磁控溅射Qdot

▶ 49000系列：ET零漂移磁控溅射单波段

▶ 59000-89000系列：ET零漂移磁控溅射多波段

49900-89900系列：ET零漂移磁控溅射激光应用

▶ TRF49900-TRF89900系列：零漂移磁控溅射TIRF应用

▶ 21000系列：分光镜，全反镜，偏振镜，热镜/冷镜，中性滤光片等

91000系列：各种型号显微镜的荧光滤光片空块

Chroma公司现在针对所有磁控溅射的标准滤光片都提供终身质保。

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深层组织穿透、纯净信号捕获、稳定光路对准和精准环境控制，这些都是前沿生物成像研究的核心需求。

凭借 Spectra-Physics® 超快激光器、Newport® 精密光子技术以及丰富的生物成像应用经验，MKS 可提供覆盖全光路的定制化光子学解决方案，助力客户实现更高的激发效率、更优的成像信噪比、更稳定的系统性能和更长的连续运行时间。



请访问 www.mks.com 了解更多信息，或通过 spectra-physics-china@mks.com 联系我们。

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- **光学滤光片：**获得更高信噪比 (SNR)，有效抑制串扰
- **可锁定镜架：**确保稳定光路对准与长期图像保真度
- **隔振系统与光学平台：**为高灵敏度成像系统提供稳定可靠运行环境
- **集成化 MKS 光子技术：**简化系统搭建，提升运行时间，减少人工干预



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产品简介

RM21®是一款多功能显微镜，适用于多种先进显微和纳米显微方法，提供多种型号满足不同需求和预算。系统经精密设计，稳定性佳，可直接访问光路。兼容笼式系统，适配标准光学平台，方便搭建现有光学元件。所有RM21®显微镜均搭载Mad City Labs基用PicoQ®专利传感技术打造的低噪声、高精度纳米位移台。

新品！MicroMirror TIRF，简化微镜校准流程。全新设计可实现聚焦与微镜的同步，便于HILO、TIRF等模式切换。还具备存储镜位以便日后使用的功能。

企业介绍

南京晶萃光学科技有限公司(简称“晶萃光学”, JCOPTIX) 依托南京大学液晶与光子技术研究中心成立, 是一家从事先进光学技术与产品研发、生产和销售的国家高新技术企业。晶萃光学致力于打造中国光学科研人自己的产品平台, 为光学科研人提供液晶光子学元件、精密光学元件、光机械件、光纤组件、运动控制器件等产品和系统解决方案。

产品中心



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运动控制



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光探测分析



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追光智汇



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零像差技术 光谱采集优选

限时特惠 超值折扣进行中

IsoPlane-320

零像差光谱仪可有效提升光谱分辨率，大幅强化信号收集能力。整机实现全靶面信号零畸变、零串扰，是显微成像光谱、高光谱分析、多通道光谱探测的理想设备。



高通量多通道，搭配 LANSIS 261EX 相机

套装1



核心配置：2048×263 像素背照式CCD，USB 3.0 接口

技术价值：263 行像素充分发挥 IsoPlane 320 的超两百通道零像差能力，实现多光纤阵列同时采集，无边缘像质衰退

适合场景：高通量药物筛选、等离子体诊断

极致弱信号，搭配 PIXIS 100BRX 相机

套装2



核心配置：20μm 大像素、-80°C 深度制冷、eXcelon 技术

技术价值：满井容量高达 300,000 e⁻，动态范围优势显著，可同时检测拉曼光谱中的强溶剂峰与弱溶质峰；极低暗电流支持数十分钟长曝光

适合场景：单分子光谱、超弱光致发光、低温磁场下光谱，相机支持升级到 PIX-400BRX 和 PIX-2K BUY

每套都附赠 LF 软件，全套校准光源以及一块光栅！

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TPI地址：上海市徐汇区瑞平路275号9层04室 电话：15800907590

凯佳光科地址：深圳市南山区 / 广州市南沙区 / 北京市海淀区 / 上海市浦东新区 电话：18621390146



LED



四通道LED

- ☞ 385/485/530/630 nm；
- ☞ 支持TTL触发；
- ☞ 空间光/液体光波导输出。



八通道LED

- ☞ 385/435/485/530/595/630/730/805nm；
- ☞ 支持TTL触发；
- ☞ 液体光波导输出。

多模态生物显微成像系统



- ☞ 近红外二区成像深度：1.5mm；
- ☞ 活体成像空间分辨率：800nm（横向），2μm（纵向）；
- ☞ 可见光/近红外共聚焦或宽场、双光子TPEF、二次谐波SHG、荧光寿命FLIM。

全息光镊（升级光谱）



- ☞ 同时操控100个以上目标；
- ☞ 可三维操控，实时规划路径，实时力学测量；
- ☞ 可升级增配显微暗场散射光谱、显微荧光光谱、显微拉曼光谱。

COBOLT固体,半导体激光器

波长覆盖范围: 320nm-1064nm (包括常见405、488、532、594、561、638等波长)

功率: 50mW-3W; TEM00模, 功率稳定性: <1%

自由光/光纤; 单波长/多波长; 可调制



SEMROCK荧光滤光片,滤光片组

激发片、发射片、二向色镜、荧光滤光片组

带通、长通、多带通, 合束滤光片

TIRF、超分辨 (PALM, STORM, STED)



PHASEFORM透射式波前调制器

透射式光流控DPP (可变速相位板) 静电驱动

复杂的波前调制: 63个电极能高保真的校正ZERNIKE多项式

(>35个模式) 的最多7个径向阶数

简单的系统集成: 紧凑的外壳与标准30MM笼式系统侧栏、镜筒

和立柱组件兼容线性且无滞后响应; 与偏振无关, RMS波前误差小于 $\lambda/40$



VALO飞秒光纤激光器

脉宽: <50fs 功率: >2W 重复频率: 30 ± 1 MHz

中心波长: 1050 ± 10 nm 谱宽: >90nm TEM00模

应用于双光子显微镜, 多光子显微镜, 光遗传等应用



BH荧光寿命成像系统

TCSPC计数器, 单光子探测器, PS脉冲激光器

提供完整的荧光寿命成像显微镜系统

各类显微镜FLIM升级模组: 激光共聚焦/双光子显微镜升级;

NSOM/AFM显微镜升级; RAMAN显微镜升级



成都成光科越仪器专注于弱光探测, 服务于生物医学光子学、物理与光学、材料、纳米科学等领域, 为科研院所、高校和高科技企业提供先进的产品、解决方案以及技术支持。

光声成像系统全系列解决方案



和视光声
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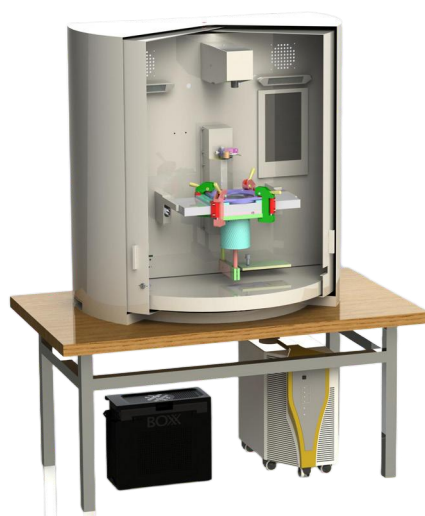
无创活体 · 高分辨率成像 · 多场景适配

公司创始人：汪立宏院士

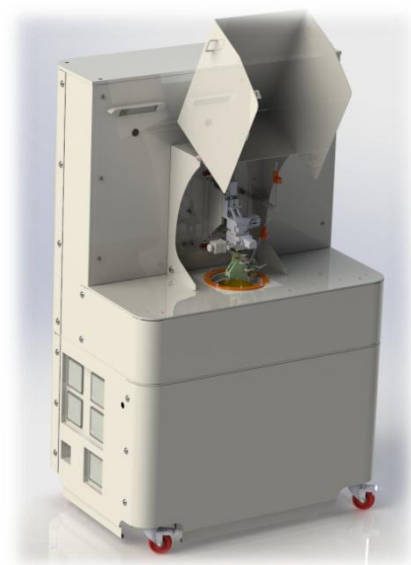
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- 美国加州理工学院医学工程系系主任、医学工程系及电子工程系Bren教授
- 世界光声成像技术的开拓者
- 美国国家工程院院士、美国国家医学院院士
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总机：027-63496683

手机：177-2051-6683

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激光光声光源

精密 创新 尖端

系统特征	NSOP0-532HE-BB	NSOP0-532HF-BB	NSOP0-532HF-MB	NSOP0-532HE-MB
重复频率	10-20HZ	50/100HZ	20HZ	10HZ
波长	690-950nm		680-2500nm	
输出能量	≥100mJ@750nm ≥200mJ@750nm	≥50mJ@750nm ≥100mJ@750nm	≥100mJ@750nm	≥200mJ@750nm
调谐精度	/		0.1nm	
调谐速度	≤50ms(全波长)	≤10ms(全波长)	≤50ms(全波长)	
脉冲宽度	3-5ns			
输出方式	空间/光纤耦合输出 （可选）			
线宽	10cm ⁻¹ —450cm ⁻¹		≤6cm ⁻¹	
功耗	≤1kW	≤1kW	≤2kW	≤2kW



高重频可调谐光源

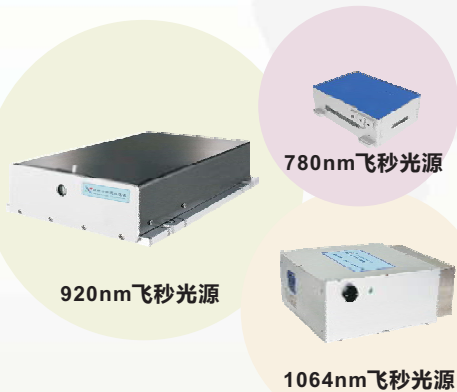


一体化光源

主要技术特点：

- 泵浦源内置，一体化设计
- 稳定性好，维护方便
- 高转换率
- 范围内波长任意可调
- 手柄操作，也可实现计算机控制
- 波长快调谐

双光子荧光成像超快光源



780nm飞秒光源

920nm飞秒光源

1064nm飞秒光源

	固定波长					可调谐双波长	
系统特征	MPF-780FS	MPF-920FS		MPF-1064FS		FSOPO-DT	
波长	780nm	920nm		1064nm		680-1300nm	1045nm
平均功率	≥1W	≥1W	≥2W	≥2W	≥3-5W	≥1.0W @ 700nm ≥1.6W @ 800nm ≥2.0W @ 900nm ≥1.8W @ 1000nm ≥1.4W @ 1200nm ≥1.0W @ 1300nm	≥3.5W@1045nm
脉宽	≤120fs	≤120fs	≤150fs	≤60fs	≤150fs	≤120fs	≤200fs
重复频率	80 2MHz						
光斑直径	~2mm						
偏振	≥100:1					≥100:1	≥500:1
发散角	≤1mrad					≤1.5mrad	
M ²	≤1.2						
GDD色散预补偿	0-60000fs ² 可调						
光强调制	0-100%可调（AOM可选配）						

主要技术特点：

- 泵浦源内置
- 稳定性好，维护方便
- GDD色散预补偿
- 调制器可内置
- 可遥控手柄操作，也可计算机控制

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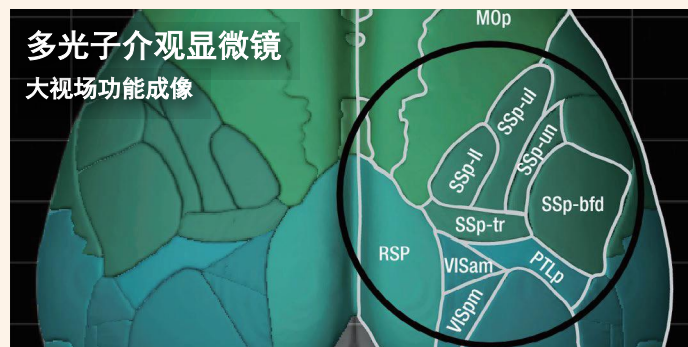
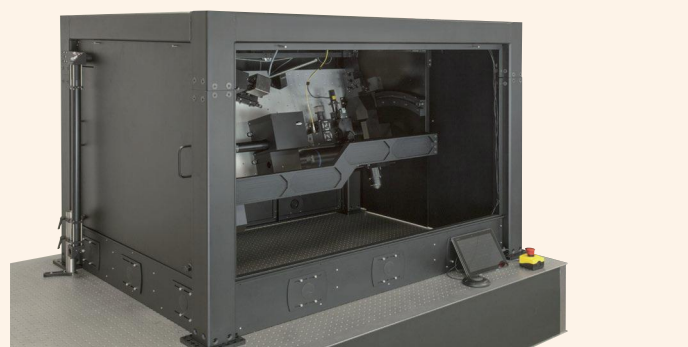
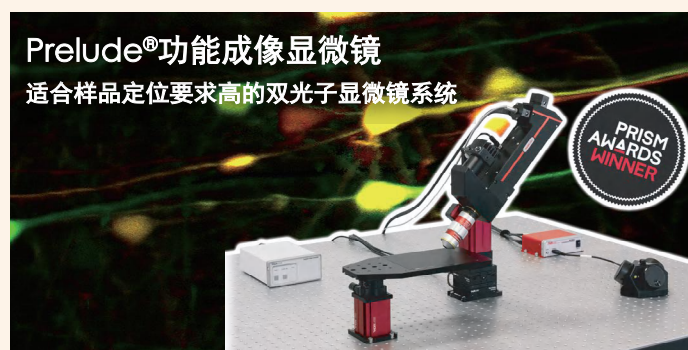
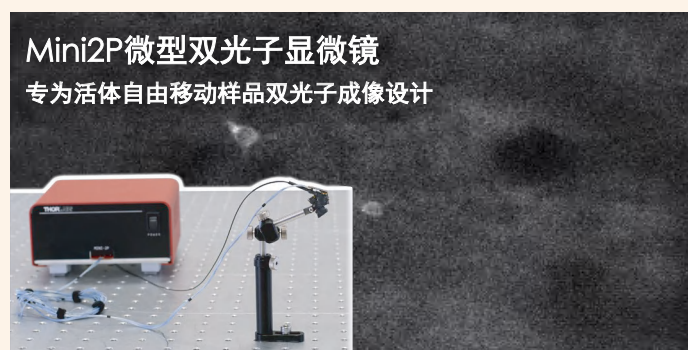
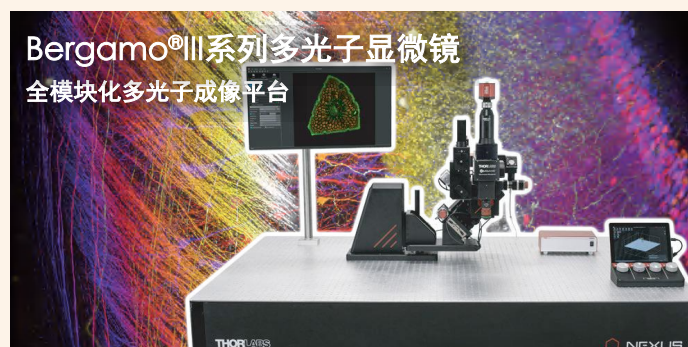


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显微镜成像系统

Thorlabs的显微镜系统结合了垂直整合结构的优势与数十年的专业经验，几乎可定制集成到其平台的每种组件。我们的科学家和工程师具有关键技术经验，可在设计、开发、生产以及技术上支持高级成像系统。



Light Manager

Empower everyone to explore the microscopic world!



博锐创科技
BORAY TECHNOLOGY

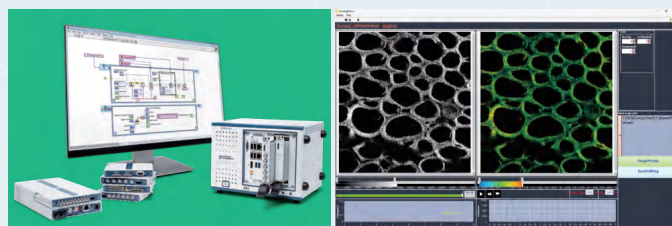
Light Manager is the most customizable advanced software package for controlling laser scanning microscopes. Whether your lab uses custom-built microscopes or commercial systems, Light Manager paired with our data acquisition card, helps you make the most of your microscope system.

Benefits of Light Manager:

- Flexibility in configuring planar or volumetric imaging to suit your specific experimental needs and hardware – includes parameters for spatial resolution, size, contrast, speed, and to limit laser damage to samples
- Compatible with commercial and custom built 2- and 3-photon microscopes, confocal scanning and optoacoustic imaging systems, with support for a myriad of hardware devices and combinations
- Reliable synchronization of image acquisition to external events or vice-versa using acquisition start/stop inputs or line/frame/volume clock outputs
- Light Manager software (API) is accessible and user customizable for development of new scan paradigms or to enable execution of user-defined scripts at key time points in image acquisition

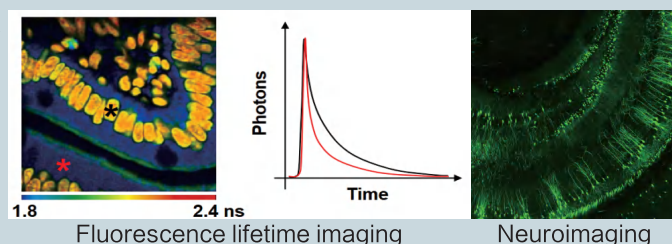
Real-time FLIM imaging

Light Manager enables you to capture fluorescence lifetime images at 30 Hz (512×512 pixels). This approach can achieve multiparameter and quantitative function imaging in vivo. Additionally, the individual photons can be detected, which can increase the signal-to-noise ratio by separating the fluorescence signal from baseline signal and noise.



Customizable Workflow & Functions

Light Manager enables you to customize your workflow & UI for your microscope. With open programming interfaces, Light Manager can support your custom development with performance and functions that suit your specific experimental needs, and with cost effective hardware options from supplier verified by us.



Fluorescence lifetime imaging

Neuroimaging

Additional Features

- Resonant/Galvo, Galvo/galvo, or arbitrary line scanning
- Temporal demultiplexing
- Acquisition gating for low rep-rate lasers to support 3-photon excitation
- Beam power control
- Adaptive optics support

Fully Supported and Maintained

Our team of expert technical services personnel to assist you with system operation or help configure Light Manager to conform to the needs of the experiment. In addition, our staff scientists and engineers are ready to provide scientific support to help you address your research questions effectively and efficiently. We are here to support your lab and help you achieve your research goals.



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生物大样本三维成像解决方案

fluorescence Micro-optical Sectioning Tomography

荧光显微光学切片断层成像

显微光学切片断层成像(MOST)和荧光显微光学切片断层成像(fMOST)系列设备能对生物大样本进行亚微米水平三维成像, 不仅可以获得单细胞分辨的全脑神经连接图谱、定位神经环路、追踪单神经元长程投射、构筑血管网络三维拓扑结构;还可用于细胞空间定量分析、单细胞形态学分析、全器官蛋白质及基因表达空间定位。



成像模式

高速线性扫描荧光成像



连续切片厚度

1-4 μ m



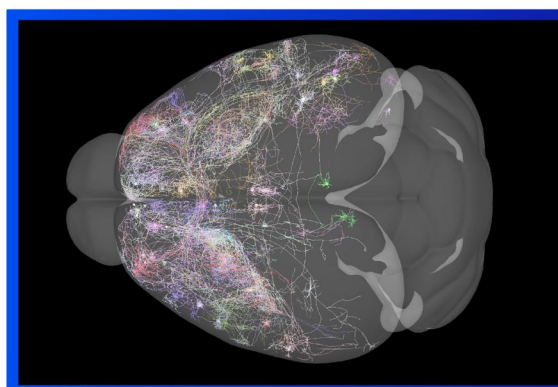
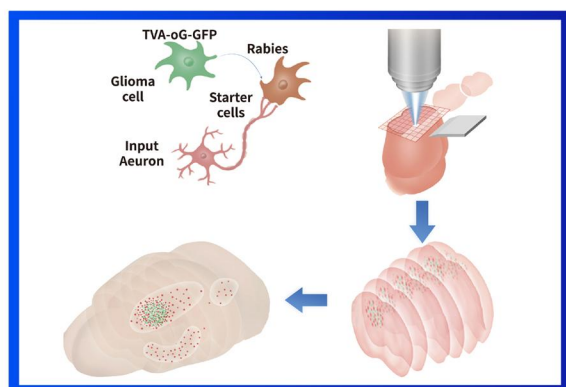
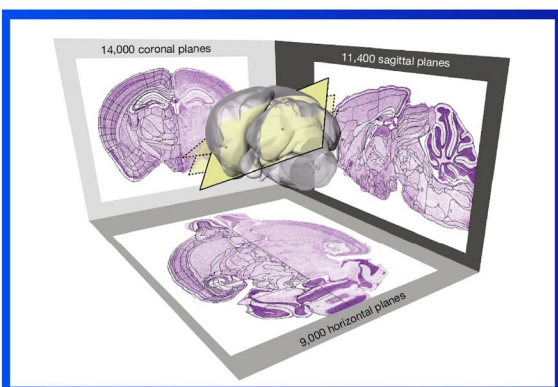
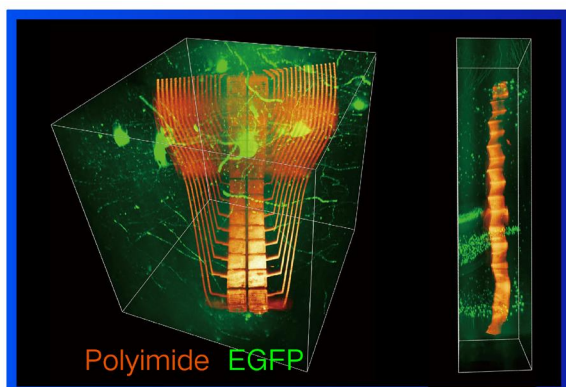
体素分辨率

0.35 μ m $\times$ 0.35 μ m $\times$ 1 μ m



最大样本体积

5cm $\times$ 5cm $\times$ 2cm



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WUHAN OEBIO CO.,LTD.

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光谷精准医疗产业基地2.1期13栋12层





飞秒激光器/飞秒光参量放大器



PHAROS系列

- 工业化、免维护设计、稳定可靠
- 重复频率：1kHz-1MHz，脉冲宽度：<100fs – 10ps
- 单脉冲能量：200uJ – 5mJ，输出功率：10W – 20W
- 谐波输出选项(515/343/257/206nm)



CARBIDE系列

- 一体化、免维护设计、稳定可靠
- 重复频率：60kHz-2MHz，脉冲宽度：<190fs – 10ps
- 单脉冲能量：83 – 2000uJ，输出功率：6W – 120W
- 谐波输出选项(515/343/257nm)



ORPHEUS系列

- 波长调谐范围：190-16000nm
- 脉冲宽度：<30fs – 4ps
- 被动CEP稳定选项
- 各种型号满足用户不同需求



多光子成像激光系统

CRONUS-2P系列

- 波长调谐范围：680-1300nm
- 重复频率：80MHz
- 脉冲宽度：<160fs
- 长期功率稳定性：<1%rms
- 专门用于双光子成像



CRONUS-3P系列

- 波长调谐范围：1250-1800nm
- 重复频率：单脉冲-1MHz或2MHz
- 脉冲宽度：<55fs@1300nm，<70fs@1700nm
- 长期功率稳定性：<1%rms
- 专门用于三光子成像



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Progress in silicon-based reconfigurable and programmable all-optical signal processing chips

Jing Xu, Wenchan Dong, Qingzhong Huang, Yujia Zhang, Yuchen Yin, Zhenyu Zhao, Desheng Zeng, Xiaoyan Gao, Wentao Gu, Zihao Yang, Hanghang Li, Xinjie Han, Yong Geng, Kunpeng Zhai, Bei Chen, Xin Fu, Lei Lei, Xiaojun Wu, Jianji Dong, Yikai Su, Ming Li, Jianguo Liu, Ninghua Zhu, Xuhan Guo, Heng Zhou, Huashun Wen, Kun Qiu, Xinliang Zhang



REVIEW ARTICLE

Effect of terahertz radiation on cells and cellular structures

A. P. Rytik, V. V. Tuchin



REVIEW ARTICLE

Information processing at the speed of light

Muhammad AbuGhanem



RESEARCH ARTICLE

260 fs, 403 W coherently combined fiber laser with precise high-order dispersion management

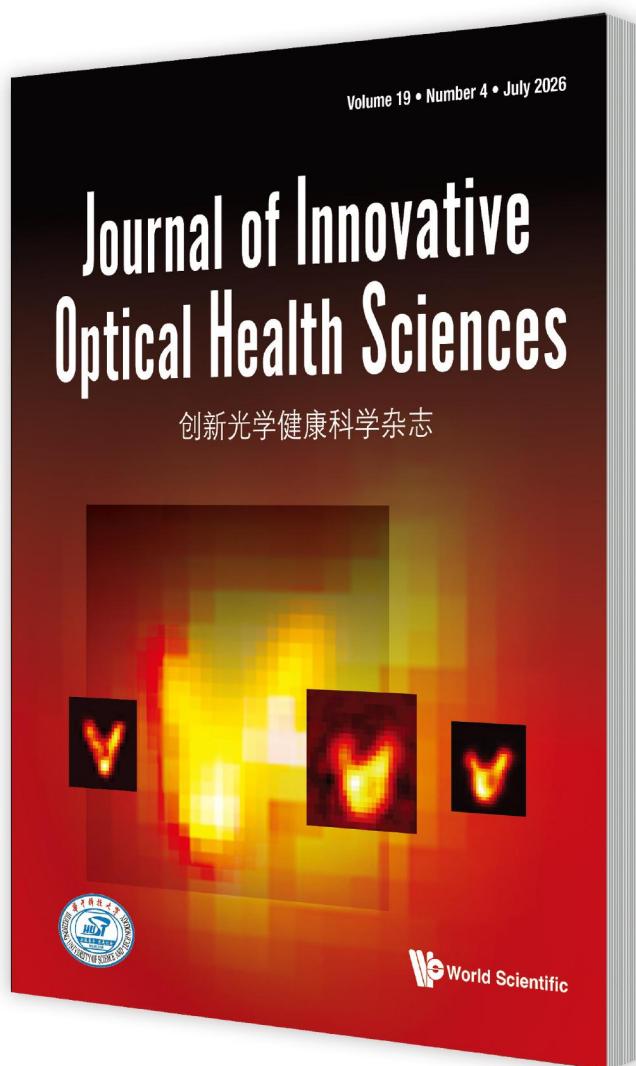
Shuangxi Peng, Zhihao Wang, Feilong Hu, Zhengyan Li, Qingbin Zhang, Peixiang Lu



RESEARCH ARTICLE

White light emission in 0D halide perovskite $[(CH_3)_3S]_2SnCl_6 \cdot H_2O$ crystals through variation of doping ns^2 ions

Yitong Lin, Yu Zhong, Yangpeng Lin, Jiawei Lin, Lei Pang, Zhilong Zhang, Yi Zhao, Xiao-Ying Huang, Ke-Zhao Du



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