

	Published scientific articles with the studies using the devices of molecular imaging developed by Dr. Chou's company (PINGSENG INC) to generate the highest quality PET/CT & CT images and the metabolic activity data for publication	Links to the original articles	Date of pub.	Devices used in this study to generate the data for publication
86	<p>nature communications</p> <p>Article https://doi.org/10.1038/s41467-023-36658-y</p> <p>Noncanonical amino acids as doubly bio-orthogonal handles for one-pot preparation of protein multiconjugates</p>	https://pubmed.ncbi.nlm.nih.gov/36810592/ https://www.nature.com/articles/s41467-023-36658-y	2/21/2023	 Super Nova® Micro PET/CT (III)
85	<p>Trends in Analytical Chemistry 170 (2024) 117470</p> <p>Contents lists available at ScienceDirect</p> <p>Trends in Analytical Chemistry</p> <p>journal homepage: www.elsevier.com/locate/trac</p> <p>Unique role of molecular imaging probes for viral infection</p> <p>Song Liu ^{a,b,1}, Teli Liu ^{a,b,1}, Wei Tian ^{c,1}, Qian Zhang ^a, Zilei Wang ^a, Xingguo Hou ^a, Yanan Ren ^a, Wanpu Yan ^d, Meng Xu ^{e,f,g}, Hongbin Han ^{e,f,g,**}, Hua Zhu ^{a,b,f,*}</p>	https://www.sciencedirect.com/science/article/pii/S0165993623005575	9/29/2023	 Super Nova® Micro PET/CT (III)

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journal homepage: www.elsevier.com/locate/jpa

Original article

Development of a CLDN18.2-targeting immuno-PET probe for non-invasive imaging in gastrointestinal tumors

Yan Chen ^{a,b,1}, Xingguo Hou ^{b,1}, Dapeng Li ^{a,b,1}, Jin Ding ^b, Jiayue Liu ^b, Zilei Wang ^{b,c}, Fei Teng ^d, Hongjun Li ^d, Fan Zhang ^d, Yi Gu ^d, Steven Yu ^d, Xueming Qian ^{d,***}, Zhi Yang ^{a,b,e,**}, Hua Zhu ^{a,b,e,*}



<https://pubmed.ncbi.nlm.nih.gov/37181294/>

<https://www.sciencedirect.com/science/article/pii/S2095177923000357>

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83	<p>ACS Pharmacology & Translational Science</p> <p>pubs.acs.org/ptsci</p> <p>Screening, Construction, and Preliminary Evaluation of CLDN18.2-Specific Peptides for Noninvasive Molecular Imaging</p> <p>Zilei Wang[△], Chuanke Zhao,[△] Jin Ding, Yan Chen, Jiayue Liu, Xingguo Hou, XiangXing Kong, Bin Dong, Zhi Yang, and Hua Zhu*</p>	<p>https://pubs.acs.org/doi/abs/10.1021/acsphtsci.3c00165</p> <p>Article</p>	6/12/2023	 <p>Super Nova® Micro PET/CT (III)</p>
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81	<p>Chinese Journal of Cancer Research</p> <p>2022 Impact Factor: 5.1 Journal Citation Reports™, Clarivate Analytics</p>  <p>Inspired by novel radiopharmaceuticals: Rush hour of nuclear medicine Yang Liu, Ya-nan Ren, Yan Cui, Song Liu, Zhi Yang, Hua Zhu, Nan Li</p> <p>Citation: Yang Liu, Ya-nan Ren, Yan Cui, Song Liu, Zhi Yang, Hua Zhu, Nan Li. Inspired by novel radiopharmaceuticals: Rush hour of nuclear medicine. <i>Chin J Cancer Res</i> 2023; 35(5): 470–482. doi: 10.21147/j.issn.1000-9604.2023.05.05</p> <p>View online: http://article.cjeren.org/article/doi/10.21147/j.issn.1000-9604.2023.05.05</p>	<p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10643344/</p>	10/30/2023	 <p>Super Nova® Micro PET/CT (III)</p>
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76	<p>European Journal of Nuclear Medicine and Molecular Imaging (2023) 50:3838–3850 https://doi.org/10.1007/s00259-023-06373-3</p> <p>ORIGINAL ARTICLE</p> <p>Preclinical evaluation and pilot clinical study of [⁶⁸Ga]Ga-THP-APN09, a novel PD-L1 targeted nanobody radiotracer for rapid one-step radiolabeling and PET imaging</p> <p>Xiaopan Ma^{1,2} · Xin Zhou² · Biao Hu^{3,4} · Xiaoda Li³ · Meinan Yao³ · Liqiang Li² · Xue Qin² · DaPeng Li² · Yuan Yao² · Xingguo Hou² · Song Liu² · Yan Chen² · Zilei Wang² · Wenyuan Zhou² · Nan Li² · Hua Zhu² · Bing Jia³ · Zhi Yang² </p>	https://pubmed.ncbi.nlm.nih.gov/37555904/	8/9/2023	 <p>Super Nova® Micro PET/CT (III)</p>

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71	<p>Received: 12 March 2023 Accepted: 10 May 2023 DOI: 10.1111/imm.13671</p> <p>ORIGINAL ARTICLE</p> <p>6-Mercaptopurine potently inhibits recruitment of SHP2 by phosphorylated PD-1 to inhibit PD-1 signalling and enhance T cell function</p> <p>Lu Liu¹  Yuxi Lei¹ Zongyao Zheng¹ Xingang Zhou² Shuzhen Chen¹ Guandi Zeng¹ Lei Yu³ Peng Wang² Liang Chen¹ </p> <p>¹MOE Key Laboratory of Tumor Molecular Biology and Key Laboratory of Functional Protein Research of Guangdong Higher Education Institutes, Institute of Life and Health Engineering, College of Life Science and Technology, Jinan University, Guangzhou, China</p> <p>²Department of Pathology & Laboratory Medicine, Beijing Ditan Hospital, Capital Medical University, Beijing, China</p> <p>³Beijing Tongren Hospital, Capital Medical University, Beijing, China</p>	<p>https://onlinelibrary.wiley.com/doi/abs/10.1111/imm.13671</p> <p>https://pubmed.ncbi.nlm.nih.gov/37259771/</p>	6/1/2023	 <p>Micro CT (Super Nova) Software: Avatar</p>
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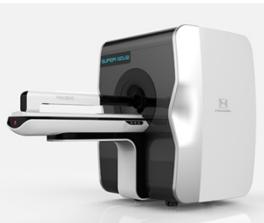
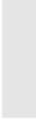
67	 <h2>European Journal of Nuclear Medicine and Molecular Imaging</h2> <p>Published: 29 June 2023 Volume 50, pages 3735–3749, (2023)</p> <p>ORIGINAL ARTICLE</p> <p>Immuno-PET of colorectal cancer with a CEA-targeted [68 Ga]Ga-nanobody: from bench to bedside</p> <p>Liqiang Li¹ · Xinfeng Lin¹ · Lin Wang² · Xiaopan Ma¹ · Ziqing Zeng¹ · Futao Liu¹ · Bing Jia³ · Hua Zhu¹ · Aiwen Wu² · Zhi Yang¹ </p>	https://link.springer.com/article/10.1007/s00259-023-06313-1 https://pubmed.ncbi.nlm.nih.gov/37382662/	6/29/2023	 Super Nova® Micro PET/CT (III)
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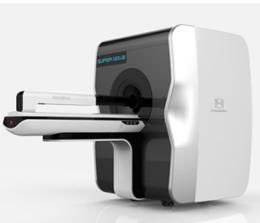
57	 <p>pubs.acs.org/molecularpharmaceutics</p> <p>Construction of an Iodine-Labeled CS1001 Antibody for Targeting PD-L1 Detection and Comparison with Low-Molecular-Peptide Micro-PET Imaging</p> <p>Dan Li,¹ Feng Wang,¹ Jinquan Jiang, Xingguo Hou, Jin Ding, Zilei Wang, Yan Chen, Teli Liu, Zhi Yang,* and Hua Zhu*</p>	https://www.semanticscholar.org/paper/Construction-of-an-Iodine-Labeled-CS1001-Antibody-Li-Wang/466d5f73a7f23355640031ae99509dcff8dacfa7 https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.2c00789	10/21/2022	 Super Nova® Micro PET/CT (III)
56	<p>Acta Biomaterialia 161 (2023) 184–200</p> <p> </p> <p>Contents lists available at ScienceDirect</p> <p>Acta Biomaterialia</p> <p>journal homepage: www.elsevier.com/locate/actbio</p> <p>Full length article</p> <p>Genetically engineered PD-1 displaying nanovesicles for synergistic checkpoint blockades and chemo-metabolic therapy against non-small cell lung cancer</p> <p>Bo Li^{a,b,1,*}, Tong Yang^{b,1}, Jin Liu^b, Xixi Yu^b, Xinying Li^a, Fei Qin^a, Jiefei Zheng^b, Jinxia Liang^b, Youyan Zeng^a, Zhenhua Zhou^a, Lu Liu^b, Bin Zhang^a, Weiwei Yao^a, Zhuo Feng^b, Guandi Zeng^b, Qian Zhou^{b,*}, Liang Chen^{b,*}</p> <p>^a MOE Key Laboratory of Glucolipid Metabolic Disorder and Guangdong TCM Key Laboratory for Metabolic Diseases, Guangdong Metabolic Diseases Research Center of Integrated Chinese and Western Medicine, Institute of Chinese Medicine, Guangdong Pharmaceutical University, Guangzhou 510006, China ^b MOE Key Laboratory of Tumor Molecular Biology and Key Laboratory of Functional Protein Research of Guangdong Higher Education Institutes, Institute of Life and Health Engineering, College of Life Science and Technology, Jinan University, Guangzhou 510632, China</p>	https://pubmed.ncbi.nlm.nih.gov/36893957/	3/1/2023	 Micro CT (Super Nova) Software: Avatar

55	<p>molecular pharmaceutics</p> <p>pubs.acs.org/molecularpharmaceutics</p> <p>Construction and Preclinical Evaluation of a $^{124/125}\text{I}$-Labeled Specific Antibody Targeting PD-L2 in Lung Cancer</p> <p>Yuan Yao, Xingguo Hou, Song Liu, Teli Liu, Yanan Ren, Xiaokun Ma, Qian Zhang, Pei Wang, Qian Guo, Xiaopan Ma, Zhi Yang,* Hua Zhu,* and Nan Li*</p>	<p>https://pubmed.ncbi.nlm.nih.gov/36579764/</p> <p>https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.2c00958</p>	12/29/2022	 <p>Super Nova® Micro PET/CT (III)</p>
54	<p>Biomedicine & Pharmacotherapy 160 (2023) 114326</p> <p>Contents lists available at ScienceDirect</p> <p>Biomedicine & Pharmacotherapy</p> <p>journal homepage: www.elsevier.com/locate/biopharm</p> <p>Enhanced efficiency of calcium-derived oleoyl serine on osteoporosis via Wnt/β-catenin pathway</p> <p>Yujiong Chen ^{a,b,1}, Chunhai Ke ^{a,1}, Jiaqi Zhong ^b, Wenqiang Cao ^c, Xiaodong Hu ^{a,b}, Mingming Hao ^a, Jieyang Dong ^{a,b}, Zhewei Zhang ^{a,b}, Hangbin Weng ^{a,b}, Botao Liu ^{a,b}, Chunhua Jin ^{c,*}, Zhaoxiang Peng ^{a,*}</p> <p>^a Ningbo University affiliated Li Hulli Hospital, Ningbo University, Ningbo, China ^b Ningbo University School of Medicine, Ningbo University, Ningbo, China ^c School of Biological and Chemical Engineering, NingboTech University, Ningbo, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/36736279/</p> <p>https://www.sciencedirect.com/science/article/pii/S0753332223001142?via%3Dihub</p>	2/1/2023	 <p>Micro CT (VENUS)</p>

53	<p> Frontiers Frontiers in Oncology</p> <p></p> <p>OPEN ACCESS</p> <p>EDITED BY Umang Swami, The University of Utah, United States</p> <p>REVIEWED BY Junwei Shi, University of Miami, United States Alexis Vrachimis, German Oncology Center, Cyprus</p> <p>*CORRESPONDENCE Xing Yang Yangxing2017@bjmu.edu.cn Peng Du dupeng9000@126.com </p> <p>TYPE Original Research PUBLISHED 20 October 2022 DOI 10.3389/fonc.2022.1030187</p> <h2>Preclinical evaluation and first in human study of Al¹⁸F radiolabeled ODAP-urea-based PSMA targeting ligand for PET imaging of prostate cancer</h2> <p>Ya'nan Ren^{1,2}, Chen Liu^{2†}, Teli Liu^{2†}, Xiaojiang Duan³, Qian Zhang^{1,2}, Jiayue Liu², Pei Wang^{1,2}, Qian Guo^{1,2}, Xing Yang^{3*}, Peng Du^{4*}, Hua Zhu^{1,2*} and Zhi Yang^{1,2*}</p>	<p>https://pubmed.ncbi.nlm.nih.gov/36338719/</p> <p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9633261/</p>	10/20/2022	 <p>Super Nova® Micro PET/CT (III)</p>
52	<p>European Journal of Nuclear Medicine and Molecular Imaging https://doi.org/10.1007/s00259-022-05967-7</p> <p>ORIGINAL ARTICLE</p> <p></p> <h2>High in-vivo stability in preclinical and first-in-human experiments with [¹⁸F]AlF-RESCA-MIRC213: a ¹⁸F-labeled nanobody as PET radiotracer for diagnosis of HER2-positive cancers</h2> <p>Xue Qin^{1,2} · Xiaoyi Guo² · Tianyu Liu³ · Liqiang Li^{2,3} · Nina Zhou² · Xiaopan Ma^{1,2} · Xiangxi Meng² · Jiayue Liu² · Hua Zhu^{1,2} · Bing Jia³ · Zhi Yang^{1,2} </p>	<p>https://pubmed.ncbi.nlm.nih.gov/36129493/</p> <p>https://link.springer.com/article/10.1007/s00259-022-05967-7</p>	9/21/2022	 <p>Super Nova® Micro PET/CT (III)</p>

51	<p>Evaluation of ^{68}Ga- and ^{177}Lu-Labeled HZ20 Angiotensin-Converting Enzyme 2-Targeting Peptides for Tumor-Specific Imaging</p> <p>Published as part of the Molecular Pharmaceutics virtual special issue "Advances in Molecular Pharmaceutical Research from Asia".</p> <p>Qian Zhang,^{II} Teli Liu,^{II} Jin Ding, Nina Zhou, Ziyi Yu, Yanan Ren, Xue Qin, Peng Du,* Zhi Yang,* and Hua Zhu*</p> <p> Cite This: Mol. Pharmaceutics 2022, 19, 4149–4156 </p> <p>ACCESS Metrics & More Article Recommendations Supporting Information</p>	<p>https://pubmed.ncbi.nlm.nih.gov/36198565/</p> <p>https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.2c00541</p>	10/5/2022	<p>Super Nova® Micro PET/CT (III)</p>
50	<p>Nano Research 2022, 15(10): 9149–9159</p> <p>ISSN 1998-0124 CN 11-5974/O4 https://doi.org/10.1007/s12274-022-4555-4</p> <p>Novel gold nanoparticles targeting somatostatin receptor subtype two with near-infrared light for neuroendocrine tumour therapy</p> <p>Qichen Chen^{1,2§}, Zilin Li^{3§}, Jiangyuan Yu^{4§}, Qing Xie^{4§}, Haizhen Lu⁵, Yiqiao Deng^{1,2}, Jinghua Chen^{1,2}, Wenjia Zhu⁶, Li Huo⁶, Yizhou Zhang^{1,2}, Wei Song⁷, Jianqiang Lan⁸, Jianqiang Cai^{1,2} ()[,] Zhen Huang^{1,2} ()[,] Zixi Wang³ ()[,]</p>	<p>https://link.springer.com/article/10.1007/s12274-022-4555-4</p> <p>https://ui.adsabs.harvard.edu/abs/2022NaRes..15_9149C/abstract</p>	7/15/2022	<p>Super Nova® Micro PET/CT (III)</p>

49	<p style="text-align: right;">145 (2023) 213252</p> <p style="text-align: center;">Contents lists available at ScienceDirect Biomaterials Advances journal homepage: www.journals.elsevier.com/materials-science-and-engineering-c</p> <p style="text-align: center;">Positive space acquiring asymmetric membranes for guiding alveolar bone regeneration under infectious conditions</p> <p style="text-align: center;">Bing Wang ^{a,*}, Chuanlan Qin ^b, Yiming Liu ^c, Yuqiu Zhang ^b, Chengmin Feng ^d, Fanglin Mi ^{c,*}, Hong Zhu ^{a,*}</p> <p style="text-align: center;">^a Department of Chemistry, School of Pharmacy, North Sichuan Medical College, Nanchong, China ^b Department of Stomatology, North Sichuan Medical College, Nanchong, China ^c Department of Stomatology, North Sichuan Medical College & Department of Stomatology, Affiliated Hospital of North Sichuan Medical College, Nanchong, China ^d Department of Otorhinolaryngology & Head Neck Surgery, Affiliated Hospital of North Sichuan Medical College, Nanchong, China [*] Department of Immunology, School of Basic and Forensic Medicine, North Sichuan Medical College, Nanchong, China</p>	<p style="text-align: center;"></p> <p style="text-align: center;">https://pubmed.ncbi.nlm.nih.gov/36563510/</p> <p style="text-align: center;">https://www.sciencedirect.com/science/article/abs/pii/S2772950822005295</p>	2/13/2022	 Super Nova® Micro PET/CT (II)
48	<p>Liu et al. <i>Cell & Bioscience</i> (2022) 12:193 https://doi.org/10.1186/s13578-022-00933-0</p> <p style="text-align: right;">RESEARCH Open Access</p> <p style="text-align: center;">In vivo genome-wide CRISPR screening identifies ZNF24 as a negative NF-κB modulator in lung cancer</p> <p style="text-align: center;">Lu Liu^{1†}, Yuxi Lei^{1†}, Wensheng Chen^{1†}, Qian Zhou^{1+†}, Zongyao Zheng¹, Guandi Zeng¹, Wanting Liu¹, Pengju Feng², Zhiyi Zhang¹, Lei Yu^{3*} and Liang Chen^{1*} </p>	<p style="text-align: center;"></p> <p style="text-align: center;">https://pubmed.ncbi.nlm.nih.gov/36457047/</p> <p style="text-align: center;">https://cellandbioscience.biomedcentral.com/articles/10.1186/s13578-022-00933-0</p>	12/1/2022	 Super Nova® Micro CT

47	<p>molecular pharmaceutics</p> <p>pubs.acs.org/molecularpharmaceutics</p> <p>Targeting Claudin 18.2 Using a Highly Specific Antibody Enables Cancer Diagnosis and Guided Surgery</p> <p>Chuanke Zhao,¹ Zhuona Rong,¹ Jin Ding,¹ Lixin Wang, Bing Wang, Lei Ding, Lin Meng, Xiangxi Meng, Feng Wang, Zhi Yang, Chengchao Shou, and Hua Zhu*</p> <p> Cite This: https://doi.org/10.1021/acs.molpharmaceut.1c00947  Read Online</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35344359/</p> <p>https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.1c00947</p>	3/28/2022	 <p>Super Nova® Micro PET/CT (III)</p>
46	<p>mmh00 ACSJCA JCAC12.5208/W Library-x64 manuscript3f (R5.2.02:5012 2.1) 2022/07/15 06:51:00 PROD-W5-118 rq_60805 7/26/2022 09:13:32 9 JCA-DEFAULT</p> <p>molecular pharmaceutics</p> <p>pubs.acs.org/molecularpharmaceutics</p> <p>Construction of a ¹²⁴I-Labeled Specific Antibody for the Noninvasive Detection of Mesothelin-Overexpressing Tumors</p> <p>Xingguo Hou,¹ Feng Wang,¹ Xiangxi Meng, Dan Li, Jin Ding, Yan Chen, Zilei Wang, Hua Zhu,* and Zhi Yang*</p> <p> Cite This: https://doi.org/10.1021/acs.molpharmaceut.2c00342  Read Online</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35904514/</p> <p>https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.2c00342</p>	7/29/2022	 <p>Super Nova® Micro PET/CT (III)</p>

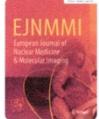
45	  <p><i>Article</i></p> <p>An Albumin-Binding PSMA Ligand with Higher Tumor Accumulation for PET Imaging of Prostate Cancer</p> <p>Yan'an Ren ^{1,2,*}, Teli Liu ^{1,*}, Chen Liu ¹, Xiaoyi Guo ¹, Feng Wang ¹, Hua Zhu ^{1,2,*} and Zhi Yang ^{1,2,*}</p>	https://pubmed.ncbi.nlm.nih.gov/35631340/ https://www.researchgate.net/publication/360161421_An_Albumin-Binding_PSMA_Ligand_with_Higher_Tumor_Accumulation_for_PET_Imaging_of_Prostate_Cancer	4/22/2022	 <p>Super Nova® Micro PET/CT (III)</p>
44	<p>AAAS Research Volume 2022, Article ID 9864089, 14 pages https://doi.org/10.34133/2022/9864089</p> <p><i>Research Article</i></p> <p>Evaluation of SARS-CoV-2-Neutralizing Nanobody Using Virus Receptor Binding Domain-Administered Model Mice</p> <p>Song Liu,^{1,2} Guanghui Li,³ Lei Ding,⁴ Jin Ding,¹ Qian Zhang,¹ Dan Li,¹ Xingguo Hou,¹ Xiangxing Kong,¹ Jing Zou,^{5,6} Shimeng Zhang,^{5,6} Hongbin Han ,^{5,6,7} Yakun Wan ,³ Zhi Yang ,^{1,2,5} and Hua Zhu ,^{1,2,5}</p>	https://pubmed.ncbi.nlm.nih.gov/35958110/ https://jnm.snmjournals.org/content/63/supplement_2/2906	7/22/2022	 <p>Super Nova® Micro PET/CT (III)</p>

43	  <p><i>Article</i></p> <p>Noninvasive Mapping of Angiotensin Converting Enzyme-2 in Pigeons Using Micro Positron Emission Tomography</p> <p>Zilei Wang ^{1,2,†}, Ziyu Liu ^{2,3,†}, Lanxin Yang ^{2,†}, Jin Ding ², Feng Wang ², Teli Liu ², Zhi Yang ² , Chao Wang ^{4,*}, Hua Zhu ^{2,*} and Youping Liu ^{1,*}</p>	https://www.mdpi.com/2075-1729/12/6/793 https://pubmed.ncbi.nlm.nih.gov/35743823/	5/26/2022	 Super Nova® Micro PET/CT (III)
42	<p>RESEARCH ARTICLE</p>   <p>www.small-journal.com</p> <p>Single Step Assembly of Janus Porous Biomaterial by Sub-Ambient Temperature Electrodeposition</p> <p>Miao Lei, Haitao Liao, Shijia Wang, Hang Zhou, Zhiling Zhao, Gregory F. Payne, Xue Qu,* and Changsheng Liu*</p>	https://onlinelibrary.wiley.com/doi/full/10.1002/smll.202204837 https://pubmed.ncbi.nlm.nih.gov/36207286/	10/7/2022	 Micro CT (VENUS)

41	<p>JCI The Journal of Clinical Investigation</p> <p>Noninvasive interrogation of CD8⁺ T cell effector function for monitoring tumor early responses to immunotherapy</p> <p>Haoyi Zhou, ... , Zhi Yang, Zhaofei Liu</p>	<p>https://www.pingseng.com/news/detail_163.htm#item</p> <p>https://www.jci.org/articles/view/161065</p>	7/5/2022	 <p>Super Nova® Micro PET/CT (III)</p>
40	<p>ARTICLE IN PRESS</p> <p>Biomaterials xxx (xxxx) xxx</p> <p>Contents lists available at ScienceDirect</p> <p>Biomaterials</p> <p>journal homepage: www.elsevier.com/locate/biomaterials</p> <p></p> <p>Blood-brain barrier Permeable nanoparticles for Alzheimer's disease treatment by selective mitophagy of microglia</p> <p>Gang Zhong ^{a,b,1}, Huiping Long ^{a,1}, Tian Zhou ^c, Yisi Liu ^b, Jianping Zhao ^b, Jinyu Han ^b, Xiaohu Yang ^a, Yin Yu ^{b,*}, Fei Chen ^{b,*}, Shengliang Shi ^{a,***}</p> <p>^a Department of Neurology, The Second Affiliated Hospital of Guangxi Medical University, Nanning, Guangxi, 530007, China ^b Center for Materials Synthetic Biology, CAS Key Laboratory of Quantitative Engineering Biology, Shenzhen Institute of Synthetic Biology, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, Shenzhen, 518055, China ^c Institute of Biomedical and Health Engineering, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, 518055, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35965114/</p> <p>https://www.sciencedirect.com/science/article/abs/pii/S0142961222003301</p>	8/12/2022	 <p>Super Nova® Micro PET/CT (III)</p>

39	<p>Received: 8 February 2022 Revised: 6 September 2022 Accepted: 14 September 2022 DOI: 10.1002/jbm.b.35168</p> <p>RESEARCH ARTICLE</p> <p>Comprehensive reparative effects of bacteriostatic poly(L-lactide-co-glycolide)/poly(L-lactide-co-ε-caprolactone) electrospinning membrane on alveolar bone defects in progressive periodontitis</p> <p>Yiming Liu¹ Yun Zhao¹ Wanchun Zhu¹ Mei Han¹ Fanglin Mi¹ Bing Wang² </p>	 WILEY <p>https://pubmed.ncbi.nlm.nih.gov/36196879/</p> <p>https://onlinelibrary.wiley.com/doi/abs/10.1002/jbm.b.35168</p>	10/5/2022	 <p>Super Nova® Micro PET/CT (II)</p>
38	<p>Received: 9 February 2022 Revised: 29 May 2022 Accepted: 30 June 2022 DOI: 10.1111/jcpe.13705</p> <p>ORIGINAL ARTICLE</p> <p> WILEY</p> <p>Comparative study of dedifferentiated fat cell and adipose-derived stromal cell sheets for periodontal tissue regeneration: In vivo and in vitro evidence</p> <p>Guobin Huang^{1,2} Bin Xia^{1,3} Zichao Dai^{1,2} Rongqiang Yang^{1,2} Rui Chen^{1,2} Hefeng Yang^{1,2} </p>	 WILEY <p>https://pubmed.ncbi.nlm.nih.gov/35851962/</p> <p>https://onlinelibrary.wiley.com/doi/abs/10.1111/jcpe.13705</p>	7/18/2022	 <p>Micro CT (NEMO) Software: Avatar</p>

37	<p>Nano Today 45 (2022) 101558</p> <p>Contents lists available at ScienceDirect</p> <p>Nano Today</p> <p>journal homepage: www.elsevier.com/locate/nanotoday</p>  <p>Multifunctional high boron content MOFs nano-co-crystals for precise boron neutron capture therapy for brain glioma <i>in situ</i></p> <p>Zhijie Wang^a, Ziteng Chen^a, Zizhu Zhang^b, Jiacheng Li^a, Kui Chen^a, Haojun Liang^a, Linwen Lv^a, Yannan Chang^a, Sen Liu^a, Wenjiang Yang^a, Zhi Yang^c, Hui Yuan^a, Xiangxi Meng^c, Tong Liu^d, Feng Wang^{a,*}, Juan Li^{a,*}, Gengmei Xing^{a,*}</p>	<p>https://www.x-mol.net/paper/article/1548147370554978304</p>	7/14/2022	 <p>Super Nova® Micro PET/CT (III)</p>
36	 <p>RESEARCH ARTICLE</p> <p>National Science Review 9: nwac152, 2022 https://doi.org/10.1093/nsr/nwac152 Advance access publication 2 August 2022</p> <p>MOLECULAR BIOLOGY & GENETICS</p> <p>Single-cell transcriptomes and <i>runx2b</i>^{-/-} mutants reveal the genetic signatures of intermuscular bone formation in zebrafish</p> <p>Chun-Hong Nie^{1,2,†}, Shi-Ming Wan^{1,2,3,†}, Yu-Long Chen^{1,2,†}, Ann Huysseune⁴, Ya-Ming Wu^{1,2}, Jia-Jia Zhou^{1,2}, Alexandre Wagner Silva Hilsdorf⁵, Wei-Min Wang^{1,2}, Paul Eckhard Witten⁴, Qiang Lin^{3,*} and Ze-Xia Gao^{1,2,6,*}</p> <p>¹College of Fisheries, Key Lab of Freshwater Animal Breeding, Ministry of Agriculture and Rural Affairs/Key Lab of Agricultural Animal Genetics, Breeding and Reproduction of Ministry of Education/Engineering Research Center of Green Development for Conventional Aquatic</p>	<p>https://academic.oup.com/nsr/article/9/11/nwac152/6653242</p> <p>https://pubmed.ncbi.nlm.nih.gov/36478733/</p>	8/2/2022	 <p>Micro CT (NEMO) Software: Avatar</p>

35	 <h2>European Journal of Nuclear Medicine and Molecular Imaging</h2> <p>European Journal of Nuclear Medicine and Molecular Imaging https://doi.org/10.1007/s00259-022-05711-1</p> <p>ORIGINAL ARTICLE</p> <p></p> <p>Galectin expression detected by ^{68}Ga-galectin tracer PET as a predictive biomarker of radiotherapy resistance</p> <p>Dehua Lu¹ · Haoyi Zhou¹ · Nan Li² · Yanpu Wang¹ · Ting Zhang¹ · Fei Wang² · Ning Liu¹ · Hua Zhu^{2,3} · Jinming Zhang⁴ · Zhi Yang^{2,3} · Zhaofei Liu^{1,3} </p>	<p>https://pubmed.ncbi.nlm.nih.gov/35106644/</p> <p>https://europemc.org/article/meid/35106644</p>	2/2/2022	 <p>Super Nova® Micro PET/CT (III)</p>
34	 <p>pubs.acs.org/molecularpharmaceutics</p> <p>Article</p> <p>^{124}I Radiolabeled Basiliximab for CD25-Targeted Immuno-PET Imaging of Activated T Cells</p> <p>Shuailiang Wang, Futao Liu, Pei Wang, Li Wen, Zilei Wang, Qian Guo, Hua Zhu, and Zhi Yang*</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35704773/</p> <p>https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.2c00330</p>	6/15/2022	 <p>Super Nova® Micro PET/CT (III)</p>

33	<p>Article</p>  <p>Carfilzomib modulates tumor microenvironment to potentiate immune checkpoint therapy for cancer</p> <p>Qian Zhou^{1,*†}, Jinxia Liang^{1,†}, Tong Yang¹, Jin Liu¹, Bo Li^{1,2}, Yingchang Li¹, Zhenzhen Fan¹ , Weida Wang³, Wensheng Chen^{1,4}, Sujing Yuan³, Meng Xu⁴, Qigui Xu⁵, Zhidong Luan⁵, Zhongjun Xia³, Penghui Zhou³ , Yadong Huang⁶  & Liang Chen^{4,6,**} </p>	<p>https://pubmed.ncbi.nlm.nih.gov/34898004/</p> <p>https://www.ebopress.org/doi/full/10.15252/emmm.202114502</p>	12/13/2021	 <p>Super Nova® Micro CT</p>
32	<p>139 (2022) 212977</p>  <p>Contents lists available at ScienceDirect</p> <p>Biomaterials Advances</p> <p>journal homepage: www.journals.elsevier.com/materials-science-and-engineering-c</p> <p>Preparation of healing promotive alanyl-glutamine-poly(p-dioxanone) electrospun membrane integrated with gentamycin and its application for intestinal anastomosis in rats</p> <p>Jun Dong^{a,1}, Chengmin Feng^{b,1}, Jiafeng Dang^c, Xiaomei Yang^d, Ting Zhang^d, Bing Wang^{a,c,*}</p> <p>^a Department of Chemistry, School of Pharmacy, North Sichuan Medical College, Nanchong, China</p> <p>^b Department of Otolaryngology & Head and Neck Surgery, Affiliated Hospital of North Sichuan Medical College, Nanchong, China</p> <p>^c Gynecology and Obstetrics, Department of Clinical Medicine, The Third Affiliated Hospital of Chengdu Medical College, Pidu District People's Hospital, Chengdu, China</p> <p>^d Department of Clinical Medicine, North Sichuan Medical College, Nanchong, China</p> <p>[*] Medical Imaging Key Laboratory of Sichuan Province, North Sichuan Medical College, Nanchong, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35882134/</p> <p>https://www.sciencedirect.com/science/article/pii/S2772950822002540</p>	6/6/2022	 <p>Super Nova® Micro PET/CT (II)</p>

31	<p>Diabetologia (2021) 64:1169–1183 https://doi.org/10.1007/s00125-021-05384-9</p> <p>ARTICLE</p> <p></p> <p>Genetic ablation of C-reactive protein gene confers resistance to obesity and insulin resistance in rats</p> <p>Mengliu Yang^{1,2} · Sheng Qiu¹ · Yirui He¹ · Ling Li³ · Tong Wu¹ · Ning Ding⁴ · Fanghong Li⁴ · Allan Z. Zhao⁴ · Gangyi Yang¹</p> <p>Received: 27 March 2020 / Accepted: 6 November 2020 / Published online: 5 February 2021 © The Author(s), under exclusive licence to Springer-Verlag GmbH, DE part of Springer Nature 2021</p>	<p>https://pubmed.ncbi.nlm.nih.gov/33544171/</p> <p>https://europemc.org/article/meid/33544171</p>	2/5/ 2021	 <p>Super Nova® Micro PET/CT (II)</p>
30	<p></p> <p>ORIGINAL RESEARCH published: 18 March 2021 doi: 10.3389/fnins.2021.593723</p> <p></p> <p>OPEN ACCESS</p> <p><i>Edited by:</i> Szilvia Anett Nagy, University of Pécs, Hungary <i>Reviewed by:</i> Arnold Tóth,</p> <p>¹⁸F-FDG PET Combined With MR Spectroscopy Elucidates the Progressive Metabolic Cerebral Alterations After Blast-Induced Mild Traumatic Brain Injury in Rats</p> <p>Yang Li^{1,2,3†}, Kaijun Liu^{4†}, Chang Li², Yu Guo², Jingqin Fang², Haipeng Tong², Yi Tang¹, Junfeng Zhang², Jinju Sun¹, Fangyang Jiao¹, Qianhui Zhang⁵, Rongbing Jin^{1,6*}, Kunlin Xiong^{2,*} and Xiao Chen^{1,6*}</p>	<p>https://pubmed.ncbi.nlm.nih.gov/33815036/</p> <p>https://www.readcube.com/articles/10.3389/fnins.2021.593723</p>	3/18/ 2021	 <p>Super Nova® Micro PET/CT (I)</p>

29	<p><i>Theranostics</i> 2021, Vol. 11, Issue 13</p> <p>6592</p> <p>Research Paper</p> <p>Targeting hyperactive TGFBR2 for treating MYOCD deficient lung cancer</p> <p>Qian Zhou^{1,2*}, Wensheng Chen^{1*}, Zhenzhen Fan^{1*}, Zhipeng Chen^{1*}, Jinxia Liang^{1*}, Guandi Zeng¹, Lu Liu¹, Wanting Liu¹, Tong Yang¹, Xin Cao², Biao Yu³, Meng Xu⁴, Ye-Guang Chen^{5,6,7} and Liang Chen^{1,8}</p>	<p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8120205/</p> <p>https://www.thno.org/v11p6592</p>	5/3/2021	 <p>Super Nova® Micro CT</p>
28	<p>Ma et al. <i>Stem Cell Research & Therapy</i> (2022) 13:92 https://doi.org/10.1186/s13287-022-02767-6</p> <p>RESEARCH Open Access </p> <p>Small extracellular vesicles from dental follicle stem cells provide biochemical cues for periodontal tissue regeneration</p> <p>Liya Ma^{1,2†}, Nanquan Rao^{1†}, Hui Jiang¹, Yuzhe Dai¹, Songtao Yang¹, Hefeng Yang^{1*}  and Jiangtian Hu^{2*}</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35241181/</p> <p>https://stemcellresearch.biomedcentral.com/articles/10.1186/s13287-022-02767-6</p>	3/3/2022	 <p>Micro CT (NEMO)</p>

27	<p>Bioactive Materials 6 (2021) 1255–1266</p>  <p>Contents lists available at ScienceDirect</p> <p>Bioactive Materials</p> <p>journal homepage: www.sciencedirect.com/journal/bioactive-materials</p>  <p>Synergistic anti-inflammatory and osteogenic n-HA/resveratrol/chitosan composite microspheres for osteoporotic bone regeneration</p> <p>Limei Li ^{a,1}, Mali Yu ^{a,1}, Yao Li ^{b,1}, Qing Li ^a, Hongcai Yang ^c, Meng Zheng ^a, Yi Han ^a, Di Lu ^a, Sheng Lu ^{d,*}, Li Gui ^{e,*}</p> <p>^a Yunnan Key Laboratory of Stem Cell and Regenerative Medicine, Science and Technology Achievement Incubation Center, Kunming Medical University, Kunming, 650500, China ^b Department of Stomatology, The First People's Hospital of Yunnan Province, Kunming, 650032, China ^c Department of Neurology, The First Affiliated Hospital, Kunming Medical University, Kunming, 650000, China ^d Yunnan Key Laboratory of Digital Orthopaedics, Department of Orthopaedics, The First People's Hospital of Yunnan Province, Kunming, 650032, China ^e Department of Endocrinology, The Third People's Hospital of Yunnan Province, Kunming, 650011, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/33210023/</p> <p>https://www.sciencedirect.com/science/article/pii/S2452199X2030270X</p>	11/8/2020	 <p>Micro CT (NEMO)</p>
26	<p>Biochemical and Biophysical Research Communications 582 (2021) 64–71</p>  <p>Contents lists available at ScienceDirect</p> <p>Biochemical and Biophysical Research Communications</p> <p>journal homepage: www.elsevier.com/locate/ybbrc</p>   <p>Mesenchymal stem cells prevent ovariectomy-induced osteoporosis formation in mice through intraosseous vascular remodeling</p> <p>Weizhou Wang ^{a,b,1}, Yanghao Wang ^{a,b,1}, Zhihong Tang ^{c,1}, Yongcheng Chen ^{a,b}, Zhui Liu ^{a,b}, Hao Duan ^a, Zongyu Zhong ^a, Fei He ^{a,c,d,*}</p> <p>^a Department of Orthopedics, The First Affiliated Hospital of Kunming Medical University, Yunnan, China ^b Kunming Medical University, Yunnan, China ^c Yunnan Province Stem Cell Technology Application Research Center, Yunnan, China ^d Yunnan Provincial Clinical Medical Center for Bone and Joint Diseases, Yunnan, China ^e Department of orthopaedics, People's Hospital of Guang'an City, Sichuan, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/34689107/</p> <p>https://europemc.org/article/med/34689107</p>	10/19/2021	 <p>Micro CT (NEMO)</p>

25	<p></p> <p>Original Article</p> <h2>Untargeted Metabolomics Reveal the Protective Effect of Bone Marrow Mesenchymal Stem Cell Transplantation Against Ovariectomy-Induced Osteoporosis in Mice</h2> <p>Weizhou Wang^{1*}, Yanghao Wang^{1*}, Jun Hu², Hao Duan¹, Zhihua Wang¹, Liang Yin¹, and Fei He^{1,3,4} </p> <p>Cell Transplantation Volume 31: 1–13 © The Author(s) 2022 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/09636897221079745 journals.sagepub.com/home/cell </p>	<p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8891838/</p> <p>https://journals.sagepub.com/doi/full/10.1177/09636897221079745</p>	2/26/2022	 <p>Micro CT (NEMO)</p>
24	<p>International Journal of Biochemistry and Cell Biology xxx (xxxx) 106112</p> <p>Contents lists available at ScienceDirect</p> <p>International Journal of Biochemistry and Cell Biology</p> <p>journal homepage: www.elsevier.com/locate/biochel</p> <p></p> <p>PRMT1 promotes extracellular matrix degradation and apoptosis of chondrocytes in temporomandibular joint osteoarthritis via the AKT/FOXO1 signaling pathway</p> <p>Qinhao Shen^{a, b, e, 1}, Yiwen Xiao^{b, d, 1}, Bei Cheng^{a, b}, Zheyi Sun^b, Yu Hu^d, Hefeng Yang^{b, *}, Yingwei Luo^{a, c, **}</p> <p>* Department of Periodontics, The Affiliated Stomatological Hospital of Kunming Medical University, Kunming 650031, Yunnan Province, China ** Yunnan Key Laboratory of Stomatology, Kunming 650500, Yunnan Province, China † The First Affiliated Hospital of Kunming Medical University, Kunming 650032, Yunnan Province, China ‡ Department of Orthodontics, The Affiliated Stomatological Hospital of Kunming Medical University, Kunming 650031, Yunnan Province, China § The First Dental Clinic of the Affiliated Stomatology Hospital of Kunming Medical University, Kunming 650221, Yunnan Province, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/34715362/</p> <p>https://www.sciencedirect.com/science/article/pii/S135727252100193X</p>	10/27/2021	 <p>Micro CT (NEMO)</p>

23	<p> frontiers Frontiers in Neurology</p> <p>ORIGINAL RESEARCH published: 18 April 2022 doi: 10.3389/fneur.2022.860541</p> <p></p> <h2>Modified Protocol for Establishment of Intracranial Arterial Dolichoectasia Model by Injection of Elastase Into Cerebellomedullary Cistern in Mice</h2> <p>Fei Xiang Liu^{1,2,3†}, Yu Ge Niu^{4†}, Dao Pei Zhang^{1,2,3*}, Huai Liang Zhang^{1,2,3}, Zhen Qiang Zhang⁴, Rui Qin Sun⁵ and Yun Ke Zhang⁶</p>	<p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9062172/</p> <p>https://www.pingseng.com/news/detail_145.htm#item</p>	4/18/2022	 <p>Micro CT (VENUS)</p>
22	<p>Yang et al. Zool. Res. 2022, 43(3): 391–403 https://doi.org/10.24272/j.issn.2095-8137.2021.291</p> <p></p> <p>Article Open Access</p> <h2>BMPR-IB gene disruption causes severe limb deformities in pigs</h2> <p>Qiang Yang^{1,2}, Chuan-Min Qiao^{1,2}, Wei-Wei Liu¹, Hao-Yun Jiang¹, Qi-Qi Jing¹, Ya-Ya Liao¹, Jun Ren¹, Yu-Yun Xing^{1,2} ¹ State Key Laboratory of Pig Genetic Improvement and Production Technology, Jiangxi Agricultural University, Nanchang, Jiangxi 330045, China</p>	<p>https://pubmed.ncbi.nlm.nih.gov/35362676/</p> <p>https://www.proquest.com/docview/2718688451?sourceType= Scholarly%20Journals</p>	5/18/2022	 <p>Micro CT (NEMO)</p>

21	<p>Am J Cancer Res 2022;12(1):381-395 www.ajcr.us /ISSN:2156-6976/ajcr0140822</p> <p>Original Article Trastuzumab aggravates radiation induced cardiotoxicity in mice</p> <p>Peiqiang Yi^{1*}, Huan Li^{1*}, Jun Su¹, Jialin Cai², Cheng Xu¹, Jiayi Chen¹, Lu Cao¹, Min Li¹</p> <p>¹Department of Radiation Oncology, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, China; ²Clinical Research Center, Ruijin Hospital, Shanghai Jiaotong University School of Medicine, Shanghai, China. *Equal contributors.</p> <p>Received November 28, 2021; Accepted December 30, 2021; Epub January 15, 2022; Published January 30, 2022</p>	<p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8822280/</p> <p>https://www.researchgate.net/publication/358533317_Tрастузумаб_агgravates_radiation_induced_cardiotoxicity_in_mice</p>	1/15/2022	 <p>Super Nova® Micro PET/CT (III)</p>
20	<p></p> <p>OPEN ACCESS</p> <p>Edited by:</p> <p>Kyung Hyun Sung, UCLA Health System, United States</p> <p>Multimodal Imaging Technology Effectively Monitors HER2 Expression in Tumors Using Trastuzumab-Coupled Organic Nanoparticles in Patient-Derived Xenograft Mice Models</p> <p>ORIGINAL RESEARCH published: 17 November 2021 doi: 10.3389/fonc.2021.778728</p> <p></p>	<p>https://pubmed.ncbi.nlm.nih.gov/34869025/</p> <p>https://www.frontiersin.org/journals/oncology/articles/10.3389/fonc.2021.778728/full</p>	11/16/2021	 <p>Super Nova® Micro PET/CT (III)</p>

19	<p>Acta Pharmacologica Sinica</p> <p>ARTICLE</p> <p>SARS-CoV-2 receptor binding domain radio-probe: a non-invasive approach for angiotensin-converting enzyme 2 mapping in mice</p> <p>Dan Li¹, Jin Ding¹, Te-li Liu¹, Feng Wang¹, Xiang-xi Meng¹, Song Liu¹, Zhi Yang¹ and Hua Zhu¹</p> <p>The spike protein of SARS-CoV-2 interacts with angiotensin-converting enzyme 2 (ACE2) of human respiratory epithelial cells, which leads to infection. Furthermore, low-dose radiation has been found to reduce inflammation and aid the curing of COVID-19. We thus constructed a radioiodinated RBD as a molecule-targeted probe to non-invasively explore ACE2 expression <i>in vivo</i>, and to investigate radiotherapy pathway for inhibiting ACE2. RBD was labeled with [¹²⁴I]NaI using an N-bromosuccinimide (NBS)-mediated method, and ¹²⁴I-RBD was obtained after purification with a specific activity of 28.9 GBq/nmol. Its radiochemical purity was (RCP) over 90% in saline for 5 days. The dissociation constant of ¹²⁴I-RBD binding to hACE2 was 75.7 nM. The uptake of ¹²⁴I-RBD by HeLa^{ACE2} cells at 2 h was 2.96% ± 0.35%, which could be substantially blocked by an excessive amount of RBD, and drop to 1.71% ± 0.23%. In BALB/c mice, the biodistribution of ¹²⁴I-RBD after intravenous injection showed a moderate metabolism rate, and its 24 h-post injection (p.i.) organ distribution was similar to the expression profile in body. Micro-PET imaging of mice after intrapulmonary injection showed high uptake of lung at 1, 4, 24 h p.i.. In conclusion, the experimental results demonstrate the potential of ¹²⁴I-RBD as a novel targeted molecular probe for COVID-19. This probe may be used for non-invasive ACE2 mapping in mammals.</p>	<p>www.nature.com/aps</p> 	<p>https://www.nature.com/articles/s41401-021-00809-y</p> <p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC812351/</p>	<p>2/3/2022</p>	 <p>Super Nova® Micro PET/CT (III)</p>
18	<p>Molecular Therapy Methods & Clinical Development</p> <p>Original Article</p> <p>Evidence of Accumulated Endothelial Progenitor Cells in the Lungs of Rats with Pulmonary Arterial Hypertension by ⁸⁹Zr-oxine PET Imaging</p> <p>Yimin Liu,^{1,4} Xin Zhao,^{2,4} Jie Ding,¹ Yanjiang Xing,² Meijun Zhou,² Xuezhu Wang,¹ Wenjia Zhu,¹ Li Huo,¹ and Jun Yang^{2,3}</p>		<p>https://pubmed.ncbi.nlm.nih.gov/32490032/</p> <p>https://www.cell.com/molecular-therapy-family/methods/fulltext/S2329-0501(20)30081-4</p>	<p>5/3/2020</p>	 <p>Super Nova® Micro PET/CT (III)</p>

17	<p>European Journal of Nuclear Medicine and Molecular Imaging https://doi.org/10.1007/s00259-021-05249-8</p> <p>ORIGINAL ARTICLE</p> <p>Synthesis, preclinical evaluation, and a pilot clinical imaging study of [¹⁸F]AIF-NOTA-JR11 for neuroendocrine neoplasms compared with [⁶⁸Ga]Ga-DOTA-TATE</p> <p>Qing Xie¹ · Teli Liu¹ · Jing Ding¹ · Nina Zhou¹ · Xiangxi Meng¹ · Hua Zhu¹ · Nan Li¹ · Jiangyuan Yu¹ · Zhi Yang¹ </p> <p>Received: 21 December 2020 / Accepted: 7 February 2021 © The Author(s), under exclusive licence to Springer-Verlag GmbH, DE part of Springer Nature 2021</p>		<p>https://pubmed.ncbi.nlm.nih.gov/33630145/</p> <p>https://link.springer.com/article/10.1007/s00259-021-05249-8</p>	<p>2/25/2021</p>	 Super Nova® Micro PET/CT (III)
16	 EUROPEAN RESPIRATORY journal FLAGSHIP SCIENTIFIC JOURNAL OF ERS <p>Intracellular hydroxyproline imprinting following resolution of bleomycin-induced pulmonary fibrosis</p> <p>Song, Zhenli Fu, Ruijuan Guan, Jie Zhao, Penghui Yang, Yang Li, Hang Yin, Yunxin Lai, Gencheng Gong, Simin Zhao, Jiangtian Yu, Xiaomin Peng, Ying He, Yumei Luo, Nanshan Zhong, Jin Su European Respiratory Journal 2022 59: 2100864; DOI: 10.1183/13993003.00864-2021</p>		<p>https://pubmed.ncbi.nlm.nih.gov/34561295/</p> <p>https://erj.ersjournals.com/content/erj/59/5/2100864.full.pdf</p>	<p>9/14/2021</p>	 Micro CT (VENUS)

15	<p>PNAS</p> <p>ICAM-1 orchestrates the abscopal effect of tumor radiotherapy</p> <p>Yang Zhao, Ting Zhang, Yabpu Wang, Zhaofeo Liu Edited by Rakesh K. Jain, Massachusetts General Hospital, Boston, MA, and approved February 16, 2021 (received for review May 22, 2020) March 30, 2021. 118 (14) e2010333118. https://doi.org/10.1073/pnas.2010333118</p>	<p>https://www.pnas.org/doi/suppl/10.1073/pnas.2010333118</p> <p>https://pubmed.ncbi.nlm.nih.gov/33785590/</p>	3/30/2021	 <p>Super Nova® Micro PET/CT (III)</p>
14	<p>European Journal of Nuclear Medicine and Molecular Imaging https://doi.org/10.1007/s00259-021-05470-5</p> <p>ORIGINAL ARTICLE</p> <p>Clinical translational evaluation of Al¹⁸F-NOTA-FAPI for fibroblast activation protein-targeted tumour imaging</p> <p>Shuailiang Wang^{1,2} · Xin Zhou² · Xiaoxia Xu² · Jin Ding² · Song Liu² · Xingguo Hou² · Nan Li² · Hua Zhu² · Zhi Yang^{1,2} </p> <p>Received: 10 February 2021 / Accepted: 17 June 2021 © The Author(s), under exclusive licence to Springer-Verlag GmbH Germany, part of Springer Nature 2021</p>	<p>https://pubmed.ncbi.nlm.nih.gov/34165601/</p> <p>https://link.springer.com/article/10.1007/s00259-021-05470-5</p>	6/24/2021	 <p>Super Nova® Micro PET/CT (III)</p>

13	<p>Bioorg. Med. Chem. Lett. 40 (2021) 127901</p> <p>Contents lists available at ScienceDirect</p> <p>Bioorganic & Medicinal Chemistry Letters</p> <p>journal homepage: www.elsevier.com/locate/bmcl</p> <p>Check for updates</p> <p>Noninvasive evaluation of PD-L1 expression using Copper 64 labeled peptide WL12 by micro-PET imaging in <i>Chinese hamster ovary</i> cell tumor model</p> <p>Jinquan Jiang, Dan Li, Teli Liu, Lei Xia, Xiaoyi Guo, Xiangxi Meng, Futao Liu, Feng Wang, Zhi Yang, Hua Zhu</p> <p><i>Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education/Beijing), NMPA Key Laboratory for Research and Evaluation of Radiopharmaceuticals (National Medical Products Administration), Department of Nuclear Medicine, Peking University Cancer Hospital & Institute, Beijing 100142, China</i></p>	<p>https://pubmed.ncbi.nlm.nih.gov/33705912/</p> <p>https://www.sciencedirect.com/science/article/pii/S0960894X2100127X</p>	3/8/2021	 <p>Super Nova® CT</p>
12	 <p>RESEARCH ARTICLE</p> <p>7,8-Dihydroxyflavone modulates bone formation and resorption and ameliorates ovariectomy-induced osteoporosis</p> <p>Fan Xue¹, Zhenlei Zhao¹, Yanpei Gu¹, Jianxin Han¹, Keqiang Ye^{2*}, Ying Zhang^{1*}</p> <p>¹Department of Food Science and Nutrition, College of Biosystems Engineering and Food Science, Zhejiang Key Laboratory for Agro-Food Processing; Zhejiang Engineering Center for Food Technology and Equipment, Zhejiang University, Hangzhou, China; ²Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, United States</p>	<p>https://pubmed.ncbi.nlm.nih.gov/34227467/</p> <p>https://elifesciences.org/articles/64872</p>	6/6/2021	 <p>Micro CT (NEMO)</p>

11	 <p>pubs.acs.org/molecularpharmaceutics</p> <p>Synthesis and Evaluation of Fluorine-18 Labeled 2-Phenylquinoxaline Derivatives as Potential Tau Imaging Agents</p> <p>Kaixiang Zhou, Fan Yang, Yuying Li, Yimin Chen, Xiaojun Zhang, Jimming Zhang, Junfeng Wang, Jiapei Dai, Lisheng Cai,* and Mengchao Cui*</p> <p>Cite This: Mol. Pharmaceutics 2021, 18, 1176–1195 Read Online Article Metrics & More Article Recommendations Supporting Information</p> <p>ABSTRACT: In this study, three pairs of optically pure ^{18}F-labeled 2-phenylquinoxaline derivatives were evaluated as Tau imaging agents for the diagnosis of Alzheimer's disease (AD). The chiral 2-fluoromethyl-1,2-ethyleneglycol side chain was attached to the 2-phenylquinoxaline backbone to increase hydrophilicity, thereby improving the binding affinity of the probe to tangles and their selectivity toward Tau tangles over β-amyloid plaques ($A\beta$). These probes displayed excellent fluorescent properties and high selectivity for tangles on brain sections from transgenic mice (rTg4510) and AD patients. Quantitative binding assays with AD homogenates showed that the probes (R)-5 and (S)-16 have a high affinity ($K_i = 4.1$ and 10.3 nM, respectively) and high selectivity (30.5-fold and 34.6-fold, respectively) for tangles over $A\beta$. The high affinity and selectivity of (R)-$[^{18}\text{F}]$5 and (S)-$[^{18}\text{F}]$16 for tangles were further confirmed with autoradiography on AD brain tissue <i>in vitro</i>. In addition, they displayed sufficient blood-brain barrier penetration (7.06% and 10.95% ID/g, respectively) and suitable brain kinetics (brain_{1 min}/brain_{60 min} = 10.1, 6.5 respectively) in normal mice. Ex vivo metabolism studies and micro-particle emission computed tomography (PET) revealed high brain biostability, good brain kinetic properties, and low nonspecific binding for (S)-$[^{18}\text{F}]$16. Together, these results demonstrate that (R)-$[^{18}\text{F}]$5 and (S)-$[^{18}\text{F}]$16 are promising PET probes for Tau tangles imaging.</p> <p>KEYWORDS: Alzheimer's disease, Tau tangles, PET imaging, quinoxaline</p>	<p>https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.0c01078</p> <p>https://pubmed.ncbi.nlm.nih.gov/33475377/</p>	1/21/2021	
10	<p>Nano Today 36 (2020) 101054</p> <p>Contents lists available at ScienceDirect</p> <p>Nano Today</p> <p>journal homepage: www.elsevier.com/locate/nanotoday</p> <p></p> <p>Peptide-based high-density lipoprotein promotes adipose tissue browning and restrains development of atherosclerosis and type 2 diabetes</p> <p>Ruodan Xu^{a,b}, Shizhong Li^{a,c}, Mingfei Shi^a, Ziyun Li^{a,d}, Yin Wang^b, Jing Li^e, Qiang Li^b, Lasse H. Klausen^b, An Li^a, Haiyu Zhao^f, Menglin Chen^b, Jingqing Hu^{a,e}, Mingdong Dong^{b,a}, Ning Li^{a,e}</p>	<p>https://www.sciencedirect.com/science/article/pii/S1748013220302243</p>	12/18/2020	

9	 <p>Molecular Metabolism Available online 19 December 2020, 101149 In Press, Journal Pre-proof ?</p> <p>Original Article</p> <h2>Crosstalk between the muscular estrogen receptor α and BDNF/TrkB signaling alleviates metabolic syndrome via 7,8-dihydroxyflavone in female mice</h2> <p>Zhenlei Zhao ¹✉, Fan Xue ¹✉, Yanpei Gu ¹✉, Jianxin Han ¹✉, Yingxian Jia ²✉, Keqiang Ye ³✉, Ying Zhang ¹✉</p>	 <p>https://pubmed.ncbi.nlm.nih.gov/33352311/</p> <p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7811170/</p>	12/19/2020	 <p>Micro CT (NEMO)</p>
8	<p><i>Theranostics</i> 2020, Vol. 10, Issue 25</p>  <p>11520</p> <p>Research Paper</p> <h2>Inactivation of tumor suppressor gene Clusterin leads to hyperactivation of TAK1-NF-κB signaling axis in lung cancer cells and denotes a therapeutic opportunity</h2> <p>Zhipeng Chen^{1*}, Zhenzhen Fan^{1*}, Xiaowei Dou^{2*}, Qian Zhou^{1*}, Guandi Zeng^{1*}, Lu Liu¹, Wensheng Chen¹, Ruirui Lan¹, Wanting Liu¹, Guoqing Ru^{3✉}, Lei Yu^{4✉}, Qing-Yu He^{1✉}, Liang Chen^{1✉}</p>	<p>https://pubmed.ncbi.nlm.nih.gov/33052230/</p> <p>https://www.semanticscholar.org/paper/Inactivation-of-tumor-suppressor-gene-Clusterin-to-Chen-Fan/926c58fd1268ac0d481f16034529ad8f82260124</p>	9/16/2020	 <p>Micro CT (VENUS)</p>

7	<p>Journal of Medicinal Chemistry</p> <p>pubs.acs.org/jmc</p> <p>Synthesis, Preclinical Evaluation, and First-in-Human PET Study of Quinoline-Containing PSMA Tracers with Decreased Renal Excretion</p> <p>Xiaojun Zhang, Yitian Wu, Qi Zeng, Tianxin Xie, Shulin Yao,* Jinning Zhang,* and Mengchao Cui*</p> <p> Cite This: https://doi.org/10.1021/acs.jmedchem.1c00117 Read Online</p> <p>ACCESS Metrics & More Article Recommendations Supporting Information</p> <p>ABSTRACT: The prostate-specific membrane antigen (PSMA) is considered to be an excellent therapeutic target of prostate cancer (PCa). In this study, three ¹⁸F-labeled PSMA tracers with a more lipophilic quinoline functional spacer were designed, synthesized, and evaluated based on the Glu-Ureido-Lys binding motif. The effect of structure-related lipophilic difference on distribution and excretion of these tracers <i>in vitro</i> and <i>in vivo</i> (cells, rodent, primate, and human) was investigated by comparing with [¹⁸F]DCEPyL. There is no significant correlation between the renal elimination and the lipophilicity of the tracers in all species. However, the higher the lipophilicity of tracer, the higher the radioactivity accumulation in the liver of primate and human, and the less radioactivity is excreted to the bladder with urine. The screened tracer [¹⁸F]8c, with a <i>K_i</i> value of 4.58 nM, displayed notable low bladder retention and demonstrated good imaging properties in patients with PCa.</p>	<p>https://pubmed.ncbi.nlm.nih.gov/33783213/</p> <p>https://pubs.acs.org/doi/10.1021/acs.jmedchem.1c00117</p>	3/20/2021	<p>Super Nova® Micro PET/CT (III)</p>
6	<p>ACS APPLIED MATERIALS & INTERFACES</p> <p>www.acsamaterials.org</p> <p>Research Article</p> <p>Tremella-Like ZnO@Col-I-Decorated Titanium Surfaces with Dual-Light-Defined Broad-Spectrum Antibacterial and Triple Osteogenic Properties</p> <p>Siyu Zhao, Yingying Xu, Wenying Xu, Zhenzhen Weng, Fei Cao, Xinyi Wan, Tongcan Cui, Yajun Yu, Lan Liao,* and Xiaolei Wang*</p> <p> Cite This: https://dx.doi.org/10.1021/acsami.0c05413 Read Online</p>	<p>https://pubmed.ncbi.nlm.nih.gov/32589010/</p> <p>https://pubs.acs.org/doi/10.1021/acsami.0c05413</p>	6/17/2020	<p>Micro CT (VENUS)</p>

5	 <p>ORIGINAL RESEARCH published: 12 June 2020 doi: 10.3389/fonc.2020.00824</p> <p></p> <h2>GATA6 Exerts Potent Lung Cancer Suppressive Function by Inducing Cell Senescence</h2> <p>Wensheng Chen ^{1†}, Zhipeng Chen ^{1†}, Miaomiao Zhang ^{1†}, Yahui Tian ¹, Lu Liu ¹, Ruirui Lan ², Guandi Zeng ¹, Xiaolong Fu ³, Guoqing Ru ^{4*}, Wanting Liu ^{1*}, Liang Chen ^{1*} and Zhenzhen Fan ^{1,2†}</p>	<p>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7304445/</p> <p>https://pubmed.ncbi.nlm.nih.gov/32596145/</p>	6/12/2020	 <p>Micro CT (VENUS)</p>
4	<p><i>Article</i></p> <p></p> <h2>Blocking interaction between SHP2 and PD-1 denotes a novel opportunity for developing PD-1 inhibitors</h2> <p>Zhenzhen Fan^{1,†}, Yahui Tian^{1,†}, Zhipeng Chen¹, Lu Liu¹, Qian Zhou¹, Jingjing He², James Coleman³ , Changjiang Dong³ , Nan Li¹, Junqi Huang¹, Chenqi Xu⁴, Zhimin Zhang⁵, Song Gao² , Penghui Zhou^{2,*} , Ke Ding^{5,**}  & Liang Chen^{1,6,***} </p>	<p>https://pubmed.ncbi.nlm.nih.gov/32391629/</p> <p>https://www.embo.org/doi/full/10.15252/embmm.201911571</p>	5/11/2020	 <p>Micro CT (VENUS)</p>

3	<p>CELL CYCLE https://doi.org/10.1080/15384101.2019.1674053</p> <p>RESEARCH PAPER</p> <p>IRF8 induces senescence of lung cancer cells to exert its tumor suppressive function</p> <p>Jinxia Liang*, Feng Lu*, Bo Li*, Lu Liu, Guandi Zeng, Qian Zhou, and Liang Chen Institute of Life and Health Engineering, Jinan University, Guangzhou, China</p> <p>ABSTRACT Lung cancer is the leading cause of cancer-related deaths worldwide. However, tumor suppressor genes remain to be systemically determined for lung cancer. Here we report interferon regulatory factor 8 (IRF8), a member of the IRF family of transcription factors, as a potent lung tumor suppressor gene. Expression of IRF8 is frequently diminished in lung tumoral tissues and is associated with prognosis of non-small cell lung cancer (NSCLC) patients. Ectopic expression of IRF8 suppresses the NSCLC cells proliferation <i>in vitro</i> and tumorigenic potential <i>in vivo</i>. More importantly, forced expression of IRF8 through infection of recombinant virus inhibits lung tumorigenesis in genetically engineered mouse model (GEMM). Mechanistically, IRF8 inhibits AKT signaling and promotes accumulation of P27 protein, which results in senescence of lung cancer cells. Ectopic expression of IRF8 in tumor cells leads to regression of lung cancer tumor nodules in a xenograft tumor model. Our data, therefore, solidly shows IRF8 to be a lung cancer suppressor gene and may denote an opportunity for therapeutic intervention of NSCLC.</p> <p>Taylor & Francis Taylor & Francis Group Check for updates</p> <p>ARTICLE HISTORY Received 3 April 2019 Revised 17 September 2019 Accepted 24 September 2019</p> <p>KEYWORDS IRF8; NSCLC; tumor suppressor gene; cell senescence; cell cycle arrest</p>	<p>https://pubmed.ncbi.nlm.nih.gov/31594449/</p> <p>https://www.tandfonline.com/doi/full/10.1080/15384101.2019.1674053</p>	10/9/2019	 Super Nova® CT
2	<p>RESEARCH ARTICLE</p> <p>A Highly Specific Multiple Enhancement Theranostic Nanoprobe for PET/MRI/PAI Image-Guided Radioisotope Combined Photothermal Therapy in Prostate Cancer</p> <p>Lei Xia, Xiangxi Meng, Li Wen, Nina Zhou, Teli Liu, Xiaoxia Xu, Feng Wang, Zhen Cheng, Zhi Yang,* and Hua Zhu*</p> <p>small <small>www.small-journal.com</small> Check for updates</p>	<p>https://pubmed.ncbi.nlm.nih.gov/33870644/</p> <p>https://onlinelibrary.wiley.com/doi/10.1002/smll.202100378</p>	4/18/2021	 Super Nova® Micro PET/CT (III)

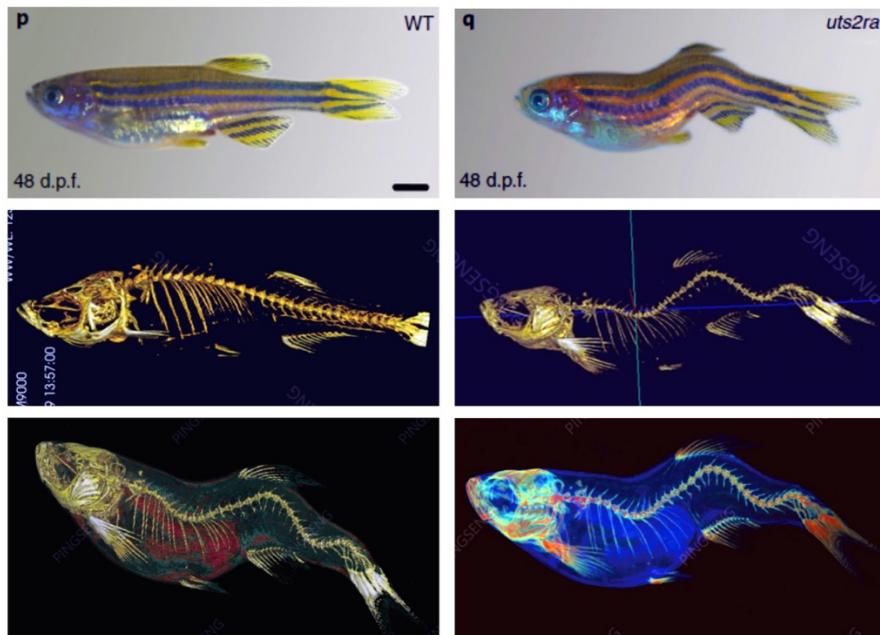
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Cilia-driven cerebrospinal fluid directs expression of urotensin neuropeptides to straighten the vertebrate body axis

Xiaoli Zhang, Shuo Jia, Zhe Chen, Yan Ling Chong, Haibo Xie, Dong Feng, Xiaotong Wu, Don Zhu Song, Sudipto Roy & Chengtian Zhao

Nature Genetics, 1666-1673 (2018)



Images of a wild-type zebrafish and *uts2ra* mutant scanned with PINGSHENG's Micro CT (NEMO)

<https://pubmed.ncbi.nlm.nih.gov/30420648/>

<https://www.nature.com/articles/s41588-018-0260-3>

11/12/
2018



Micro CT (NEMO)
Software: Avatar

