

CUBIC (clear, unobstructed brain / body imaging cocktails and computational analysis) 引用和使用文献

1)	Masson, A. <i>et al.</i> : "High-resolution in-depth imaging of optically cleared thick samples using an adaptive SPIM.", <i>Sci Rep.</i> , 5 , 16898 (2015).	消除了RI mismatch的adaptive SPIM应用实例，使用CUBIC/CLARITY透明化样品 (spheroid)
2)	Melih, A. <i>et al.</i> : "Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal.", <i>Nature</i> , 526 , 126 (2015).	使用CUBIC 测试骨透明度，但有机溶剂体系效果更好
3)	Hirashima, T. and Adachi, T. : "Procedures for the Quantification of Whole- Tissue Immunofluorescence Images Obtained at Single-Cell Resolution during Murine Tubular Organ Development.", <i>PLOS ONE</i> , 10(8) , e0135343 (2015).	比较免疫染色和3D成像等多种透明化方法，CUBIC更优异
4)	Qureshi, S. <i>et al.</i> : "Imaging Cleared Embryonic and Postnatal Hearts at Single-cell Resolution." <i>J. Vis. Exp.</i> (116), e54303 (2016).	Embryonic and postnatal Heart clearing with Scale and CUBIC
5)	Zufiria, B. <i>et al.</i> : "3D imaging of the cleared intact murine colon with light sheet microscopy.", <i>Proc. SPIE</i> , 9713 (2016); doi:10.1117/12.2212039	LSFM imaging of colon cleared with CUBIC
6)	Zhang, H. <i>et al.</i> : "Rapid Acquisition of 3D Images Using High-resolution Episcopic Microscopy.", <i>J. Vis. Exp.</i> (117), e54625 (2016).	mouse embryo clearing with CUBIC
7)	Lai, San, Wong. <i>et al.</i> : "Vascular endothelial growth factor partially induces pruritus via epidermal hyperinnervation in imiquimod-induced psoriasiform dermatitis in mice.", <i>Journal of Dermatological Science</i> , 83 , 148 (2016).	whole-mount ear nerve imaging by using the CUBIC method
8)	Vinegoni, C. <i>et al.</i> : "Real-time high dynamic range laser scanning microscopy.", <i>Nature Communications</i> , 7 , 11077 (2016).	作为high dynamic range fluorescence laser scanning microscopy (HDR-LSM) 开发论文的 volumetric imaging案例
9)	Stefaniuk, M. <i>et al.</i> : "Light-sheet microscopy imaging of a whole cleared rat brain with Thy1-GFP transgene.", <i>Scientific Reports</i> , 6 , 28209 (2016).	Rat whole brain clearing with ScaleCUBIC, with insufficient clearing results.
10)	Rouso, DL. <i>et al.</i> : "Two Pairs of ON and OFF Retinal Ganglion Cells Are Defined by Intersectional Patterns of Transcription Factor Expression.", <i>Cell Reports</i> , 15(9) , 1930 (2016).	Application in thick mouse brain
11)	Qiana, Y. <i>et al.</i> : "Targeting dendritic cells in lymph node with an antigen peptide-based nanovaccine for cancer immunotherapy.", <i>Biomaterials</i> , 98 , 171 (2016).	在confocal中小鼠的whole LN 3D imaging使用CUBIC
12)	Peeters, G. <i>et al.</i> : "A multilevel framework to reconstruct anatomical 3D models of the hepatic vasculature in rat livers.", <i>Journal of Anatomy</i> , 230(3) , 471 (2016). DOI: 10.1111/joa.12567	肝脏结构分析，使用CUBIC进行免疫染色
13)	Nehrhoff, I. <i>et al.</i> : "3D imaging in CUBIC-cleared mouse heart tissue: going deeper." <i>Biomed Opt Exp</i> , 7(9) , 3716 (2016).	Heart clearing and 3D staining (CD-31) with optimized CUBIC
14)	Murata, T. <i>et al.</i> : "Three-Dimensional Evaluation of Subclinical Extension of Extramammary Paget's Disease: Visualization of Histological Border and Its Comparison to Clinical Border.", <i>Br J Dermatol.</i> , 177(1) , 229 (2016). doi: 10.1111/bjd.15282	CUBIC应用于诊断Paget病，人皮肤的免疫染色
15)	Moschetta, M. <i>et al.</i> : "Targeting vasculogenesis to prevent progression in multiple myeloma." <i>Leukemia</i> , 30(5) , 1103 (2016); doi: 10.1038/leu.2016.3	confocal imaging of the intra-bone tumor cells and functional vessels cleared with CUBIC
16)	Lloyd-Lewis, B. <i>et al.</i> : "Imaging the mammary gland and mammary tumours in 3D: optical tissue clearing and immunofluorescence methods.", <i>Breast Cancer Research</i> , 18 , 127 (2016).	clearing and imaging of mouse mammary gland with CUBIC/SeeDB
17)	Liang, H. <i>et al.</i> : "Imaging Serotonergic Fibers in the Mouse Spinal Cord Using the CLARITY/CUBIC Technique.", <i>J Vis Exp.</i> , (108), 53673 (2016). doi: 10.3791/53673.	使用CLARITY+CUBIC加速spinal cord透明化，染色并可视化血清素
18)	Liang, H. <i>et al.</i> : "CUBIC Protocol Visualizes Protein Expression at Single Cell Resolution in Whole Mount Skin Preparations.", <i>J. Vis. Exp.</i> , 114 , 54401 (2016).	Skin staining and imaging protocol with CUBIC
19)	Li, J. <i>et al.</i> : "Single-Cell Lineage Tracing Reveals that Oriented Cell Division Contributes to Trabecular Morphogenesis and Regional Specification.", <i>Cell Reports</i> , 15(1) , 158 (2016). doi:10.1016/j.celrep.2016.03.012	应用CUBIC于心脏发育的观察

20)	Lee, E. <i>et al.</i> : "ACT-PRESTO: Rapid and consistent tissue clearing and labeling method for 3-dimensional (3D) imaging.", <i>Scientific Reports</i> , 6 , 18631 (2016).	CUBIC处理组织中的免疫染色案例，与CLARITY组织比较
21)	Kolesová, H. <i>et al.</i> : "Comparison of different tissue clearing methods and 3D imaging techniques for visualization of GFP-expressing mouse embryos and embryonic hearts.", <i>Histochem Cell Biol.</i> , 146(2) , 141 (2016).	与DBE, CLARITY, Scale相比，CUBIC的透明度以及GFP保存性更佳
22)	Igarashi, H. <i>et al.</i> : "A Novel Reporter Rat Strain That Conditionally Expresses the Bright Red Fluorescent Protein tdTomato.", <i>PLoS one</i> , 11(5) , e0155687 (2016).	Application in thick rat brain, tdTomato expressed
23)	Guldner, IH. <i>et al.</i> : "An Integrative Platform for Three-dimensional Quantitative Analysis of Spatially Heterogeneous Metastasis Landscapes.", <i>Scientific Reports</i> , 6 , 24201 (2016).	开发癌症转移瘤分析方法 (SMART-3D)，使用PACT+CUBIC透明化
24)	Guggilam, A. <i>et al.</i> : "Cardiac Malformations in EMILIN2 Deficient Mice.", <i>Int J Cardiovasc Res</i> , 5 , 5 (2016).	使用光学层析成像对转基因小鼠畸形心脏进行形态学分析
25)	Fumoto, S. <i>et al.</i> : "Three-Dimensional Imaging of the Intracellular Fate of Plasmid DNA and Transgene Expression: ZsGreen1 and Tissue Clearing Method CUBIC Are an Optimal Combination for Multicolor Deep Imaging in Murine Tissues.", <i>PLoS ONE</i> , 11(1) ,	应用CUBIC，通过Hydrodynamic injection测量质粒的体内分布，与其他透明化方法相比更佳
26)	Economo, MN. <i>et al.</i> : "A platform for brain-wide imaging and reconstruction of individual neurons.", <i>eLife</i> , 5 , e10566 (2016).	开发与sectioning tomography兼容的透明化方法，去脂使用CUBIC1
27)	Davis, FM. <i>et al.</i> : "Single-cell lineage tracing in the mammary gland reveals stochastic clonal dispersion of stem/progenitor cell progeny.", <i>Nature Communications</i> , 7 , 13053 (2016).	使用CUBIC&SeeDB染色和免疫染色乳腺干细胞进行的lineage tracing
28)	Chen, JY. <i>et al.</i> : "Hoxb5 marks long-term haematopoietic stem cells and reveals a homogenous perivascular niche.", <i>Nature</i> , 530 , 223 (2016).	应用CUBIC于骨髓的3D成像
29)	Calvigioni, D. <i>et al.</i> : "Functional Differentiation of Cholecystokinin-Containing Interneurons Destined for the Cerebral Cortex.", <i>Cerebral Cortex</i> , 27(4) , 2453 (2016).	mouse embryo clearing and imaging with Light sheet Z.1 / observing CCK+ neuron development
30)	Lloyd-Lewis, B. <i>et al.</i> : "Imaging the mammary gland and mammary tumours in 3D: optical tissue clearing and immunofluorescence methods.", <i>Breast Cancer Res.</i> , 18 , 127 (2016).	乳腺的透明化和免疫染色，比较CUBIC、SeeDB、PACT
31)	Abe, J. <i>et al.</i> : "Light sheet fluorescence microscopy for in situ cell interaction analysis in mouse lymph nodes.", <i>Journal of Immunological Methods</i> , 431 , 1 (2016).	淋巴结的SPIM成像，透明化方法比较中CUBIC更佳
32)	Yokoyama, T. <i>et al.</i> : "Quantification of sympathetic hyperinnervation and denervation after myocardial infarction by three-dimensional assessment of the cardiac sympathetic network in cleared transparent murine hearts.", <i>PLoS ONE</i> , 12(7) , e0182072	whole-mouse heart的clearing&immunostaining(使用TH染色交感神经)&使用3D成像, Zeiss Z1
33)	Yamamoto, J. <i>et al.</i> : "Neuronal signals regulate obesity induced β -cell proliferation by FoxM1 dependent mechanism.", <i>Nat Commun</i> , 8 , 1930 (2017).	Immunostaining and 3D imaging of islet-nervig VACHT neuron
34)	Watson, AM. <i>et al.</i> : "Ribbon scanning confocal for high-speed high-resolution volume imaging of brain.", <i>PLoS ONE</i> , 12(7) , e0180486 (2017).	在Confocal中的volumetric imaging(rat, marmoset brain)使用CUBIC，有Rabies、immunostain(GFAP)
35)	Sato, K. <i>et al.</i> : "Understanding microstructure of the brain by comparison of neurite orientation dispersion and density imaging (NODDI) with transparent mouse brain." <i>Acta Radiologica Open</i> , 6(4) , 1 (2017).	使用CUBIC，通过MRI方法 (NODDI) 的光学观察进行验证
36)	Romanov, RA. <i>et al.</i> : "Molecular interrogation of hypothalamic organization reveals distinct dopamine neuronal subtypes.", <i>Nat Neurosci.</i> , 20 , 176 (2017).	通过单细胞测序识别下丘脑中的细胞类型，并使用IHC&CUBIC&LSFM观察特定细胞类型的3D分布
37)	Ohnuma, S. <i>et al.</i> : "Application of Tissue Clearing Techniques to 3D Study of Infectious Disease Pathology in Fish.", <i>Fish Pathology</i> , 52 , 96 (2017).	鱼的透明化测试，与ClearT、SeeDB相比，CUBIC的表现更佳
38)	Nishikawa, T. <i>et al.</i> : "Using size-controlled multicellular spheroids of murine adenocarcinoma cells to efficiently establish pulmonary tumors in mice.", <i>Biotech J</i> , 12 , (2017). doi: 10.1002/biot.201600513.	使用CUBIC监测移植培养细胞在肺的分布
39)	Matryba, P. <i>et al.</i> : "Optimized perfusion-based CUBIC protocol for the efficient whole-body clearing and imaging of rat organs.", <i>J Biophotonics.</i> , 11 , e201700248 (2017). doi: 10.1002/jbio.201700248.	适用于大鼠全身的CUBIC灌注方案

40)	Maruoka, H. <i>et al.</i> : "Lattice system of functionally distinct cell types in the neocortex.", <i>Science</i> , 358 , 610 (2017).	小鼠大脑厚切片中的免疫染色以及成像
41)	Lin, C. and Cronin, TW. : "Two visual systems in one eyestalk: The unusual optic lobe metamorphosis in the stomatopod <i>Alima pacifica</i> .", <i>Developmental Neurobiology</i> , 78 , 3 (2017). DOI: 10.1002/dneu.22550	<i>Alima pacifica</i> 的全组织包埋免疫染色
42)	Kwon, YW. <i>et al.</i> : "N-Acetylated Proline-Glycine-Proline Accelerates Cutaneous Wound Healing and Neovascularization by Human Endothelial Progenitor Cells.", <i>Scientific Rep.</i> , 7 , 43057 (2017).	使用IHC和CUBIC观察药物对皮肤伤口愈合过程中血管生成的治疗效果
43)	Kiefer, C. <i>et al.</i> : "Longitudinal imaging of HIV-1 spread in humanized mice with parallel 3D immunofluorescence and electron tomography.", <i>eLife</i> , 6 , e23282 (2017)	使用CUBIC于HIV感染模型的脾脏观察
44)	Kawasaki, H. <i>et al.</i> : "Pathogenesis of developmental anomalies of the central nervous system induced by congenital cytomegalovirus infection.", <i>Pathology International</i> , 67 , 72 (2017). DOI: 10.1111/pin.12502	评估啮齿动物全脑中CMV感染的扩展
45)	Kakimoto, T. : "Validation of an easily applicable three-dimensional immunohistochemical imaging method for a mouse brain using conventional confocal microscopy.", <i>Histochem Cell Biol.</i> , 149 , 97 (2017). DOI 10.1007/s00418-017-1614-0	厚组织切片的3D免疫染色, 使用Scale和CUBIC透明化
46)	Kagami, K. <i>et al.</i> : "Three-dimensional visualization of intrauterine conceptus through the uterine wall by tissue clearing method.", <i>Scientific Reports</i> , 7 , 5964 (2017).	Tissue clearing and 3D imaging of pregnant uterus and placenta.
47)	Irie, R. <i>et al.</i> : "The Relationship between Neurite Density Measured with Confocal Microscopy in a Cleared Mouse Brain and Metrics Obtained from Diffusion Tensor and Diffusion Kurtosis Imaging.", <i>Magn Reson Med Sci</i> , 17 , 138 (2017). doi:10.2463/mrms.mp.2017-0031	CUBIC was used to determine the relationship between DKI metrics and neurite density measured using confocal microscopy of a cleared mouse
48)	Ieyasu, A. <i>et al.</i> : "An All-Recombinant Protein-Based Culture System Specifically Identifies Hematopoietic Stem Cell Maintenance Factors.", <i>Stem Cell Rep.</i> , 8 , 500 (2017). http://dx.doi.org/10.1016/j.stemcr.2017.01.015	3D observation of bone marrow with IHC and CUBIC
49)	HÖÖK, P. <i>et al.</i> : "Whole blood clot optical clearing for nondestructive 3D imaging and quantitative analysis.", <i>Boomed Opt Exp</i> , 8 , 3671 (2017).	改良CUBIC1, 开发全血凝块的透明化方法
50)	Gómez-Gavero, MV. <i>et al.</i> : "Optimized CUBIC protocol for 3D imaging of chicken embryos at single-cell resolution.", <i>Development</i> , 144 , 2092 (2017). doi: 10.1242/dev.145805	使用TEM评估, 保留亚细胞结构
51)	Gimenez, U. <i>et al.</i> : "3D imaging of the brain morphology and connectivity defects in a model of psychiatric disorders: MAP6-KO mice.", <i>Scientific Reports</i> , 7 , 10308 (2017).	应用CUBIC于精神障碍模型小鼠大脑的分析
52)	Furlan, G. <i>et al.</i> : "Life-Long Neurogenic Activity of Individual Neural Stem Cells and Continuous Growth Establish an Outside-In Architecture in the Teleost Pallium.", <i>Current Biology</i> , 27 , 3288 (2017).	斑马鱼全脑的免疫染色和透明化
53)	Frétaud, M. <i>et al.</i> : "High-resolution 3D imaging of whole organ after clearing: taking a new look at the zebrafish testis.", <i>Scientific Reports</i> , 7 , 43012 (2017).	CUBIC/PACT成像对斑马鱼睾丸有效
54)	Cuccarese, MF. <i>et al.</i> : "Heterogeneity of macrophage infiltration and therapeutic response in lung carcinoma revealed by 3D organ imaging.", <i>Nat Commun</i> , 8 , 14923 (2017).	使用CUBIC于全肺的癌转移成像
55)	Cho, GS. <i>et al.</i> : "Neonatal Transplantation Confers Maturation of PSC-Derived Cardiomyocytes Conducive to Modeling Cardiomyopathy.", <i>Cell Reports</i> , 18 , 571 (2017).	3D评估stem cell-derived caridomyocyte的transplant
56)	Xu, J. <i>et al.</i> : "Quantitative assessment of optical clearing methods in various intact mouse organs.", <i>J Biophotonics</i> , 12 , e201800134 (2018). DOI: 10.1002/jbio.201800134	Comparison of various clearing techniques by a third-party group. Some procedures seems not to be optimized or applied inappropriately.
57)	Wu, Y. <i>et al.</i> : "A Population of Navigator Neurons Is Essential for Olfactory Map Formation during the Critical Period.", <i>Neuron</i> , 100 , 1066 (2018). DOI: 10.1016/j.neuron.2018.09.051	Axon tracking of olfactory sensory neuron by using passive CLARITY and ScaleCUBIC-2

58)	Wang, L. <i>et al.</i> : "The coding of valence and identity in the mammalian taste system." <i>Nature</i> , 558 , 127 (2018).	Whole CUBIC pipeline (clearing, imaging and informatics) was applied to find out taste sensing circuit in mouse brains
59)	Tsuchiya, Y. <i>et al.</i> : "Ripply3 is required for the maintenance of epithelial sheets in the morphogenesis of pharyngeal pouches.", <i>Development, Growth and Differentiation</i> , 60(2) , 87 (2018).	3D visualization of Ripply3 KO embryo
60)	Su, WF. <i>et al.</i> : "Overexpression of P2X4 receptor in Schwann cells promotes motor and sensory functional recovery and remyelination via BDNF secretion after nerve injury.", <i>GLIA</i> , 67 , 78 (2018). DOI: 10.1002/glia.23527	Mouse sciatic nerve tissue clearing with ScaleCUBIC for the confirmation of lentivirus vector infection and transgene expression
61)	Stednitz, SJ. <i>et al.</i> : "Forebrain Control of Behaviorally Driven Social Orienting in Zebrafish.", <i>Current Biology</i> , 28(15) , 2445 (2018).	Zebrafish brain clearing and imaging with CUBIC
62)	Scaros, AT. <i>et al.</i> : "Immunohistochemical Approach to Understanding the Organization of the Olfactory System in the Cuttlefish, <i>Sepia officinalis</i> .", <i>ACS Chem. Neurosci.</i> , 9 , 2074 (2018). DOI: 10.1021/acchemneuro.8b00021	Whole-mount immunostaining and volumetric imaging of the species on CUBIC
63)	Sánchez-Valdéz, FJ. <i>et al.</i> : "Spontaneous dormancy protects <i>Trypanosoma cruzi</i> during extended drug exposure.", <i>eLife</i> , 7 , e34039	Observing <i>Trypanosoma</i> infection in tissue with
64)	Pende, M. <i>et al.</i> : "High-resolution ultramicroscopy of the developing and adult nervous system in optically cleared <i>Drosophila melanogaster</i> .", <i>Nature Communications</i> , 9 , 4731 (2018).	Modified ScaleCUBIC reagent for clearing and depigmentation of <i>Drosophila</i>
65)	Mikolajewicz, K1. and Chodaczek, G. : "Going deeper: three - dimensional study of $\gamma\delta$ T cells in mouse reproductive tract using tissue clearing methods.", <i>Immunology & Cell Biology</i> , 97 , 104 (2018). https://doi.org/10.1111/imcb.12202	Immunostained whole-mounted vaginal wall observation with CUBIC and ScaleS
66)	Lloyd-Lewis, B. <i>et al.</i> : "Neutral lineage tracing of proliferative embryonic and adult mammary stem/progenitor cells.", <i>Development</i> 145 , dev164079 (2018).	clearing and imaging of mouse mammary gland with CUBIC/SeeDB
67)	Lanjakornsiripan, D. <i>et al.</i> : "Layer-specific morphological and molecular differences in neocortical astrocytes and their dependence on neuronal layers.", <i>Nature Communications</i> , 9 , 1623 (2018).	imaging of layer-specific astrocytes morphology on CUBIC
68)	Kolesová, H. <i>et al.</i> : "Novel Approaches to Study Coronary VasculatureDevelopment in Mice." <i>Developmental Dynamics</i> , 247 , 1018 (2018). DOI: 10.1002/DVDY.24637	Use CUBIC for studying heart development of mice
69)	Kiyoshi, CM. <i>et al.</i> : "Syncytial isopotentiality: A system-wide electrical feature of astrocytic networks in the brain.", <i>Glia</i> , 66 , 2756 (2018). DOI: 10.1002/glia.23525	3D observation of astrocytes in the cerebral cortex
70)	Kaucka, M. <i>et al.</i> : "Signals from the brain and olfactory epithelium control shaping of the mammalian nasal capsule cartilage.", <i>eLife</i> , 7 , e34465 (2018).	whole head clearing and imaging for the study of brain-derived Sonic Hedgehog (SHH) and nasal facial cartilage morphogenesis
71)	Kassem, MS. <i>et al.</i> : "A novel, modernized Golgi-Cox stain optimized for CLARITY cleared tissue.", <i>J Neurosci Methods</i> , 294 , 102 (2018).	Golgi-Cox staining on CLARITY/CUBIC, stains eventually removed in SC1A
72)	Kagami, K. <i>et al.</i> : "Three-dimensional evaluation of murine ovarian follicles using a modified CUBIC tissue clearing method.", <i>Reprod Biol Endocrinol.</i> , 16 , 72 (2018).	3D evaluation of murine ovarian tissue with modified CUBIC
73)	Imanishi, A. <i>et al.</i> : "A novel morphological marker for the analysis of molecular activities at the single-cell level.", <i>Cell Structure and Function</i> , 43 , 129 (2018). DOI: 10.1247/csf.18013	Use CUBIC for observing 3D architecture of NuCyM (Nucleus, Cytosol, Membrane) mice
74)	Hume, RD. <i>et al.</i> : "An engineered human adipose/collagen model for in vitro breast cancer cell migration studies.", <i>Tissue Engineering</i> , 24 , 1309 (2018).	clearing, immunostaining and imaging of human breast tumor biopsy samples
75)	Hume, RD. <i>et al.</i> : "Tumour cell invasiveness and response to chemotherapeutics in adipocyte invested 3D engineered anisotropic collagen scaffolds.", <i>Scientific reports</i> , 8 , 12658 (2018).	Clearing, staining and 3D imaging of 3D cultured tumor cell spheroid
76)	Hruska, M. <i>et al.</i> : "Synaptic nanomodules underlie the organization and plasticity of spine synapses.", <i>Nature Neuroscience</i> , 21 ,	multi-color STED imaging of spine molecules on

77)	Haraguchi, A. <i>et al.</i> : "Determining Transgene Expression Characteristics Using a Suction Device with Multiple Hole Adjusting a Left Lateral Lobe of the Mouse Liver." <i>Biological and Pharmaceutical Bulletin</i> , 41(6) , 944 (2018).	mouse liver clearing expressing ZsGreen
78)	Gonzalez, BD. <i>et al.</i> : "Excess LINC complexes impair brain morphogenesis in a mouse model of recessive-TOR1A disease.", <i>Human Molecular Genetics</i> , 27 , 2154 (2018). DOI: 10.1093/hmg/ddy125	Application in mouse embryo clearing
79)	Divakaruni, SS. <i>et al.</i> : "Long-Term Potentiation Requires a Rapid Burst of Dendritic Mitochondrial Fission during Induction.", <i>Neuron</i> , 100 , 860 (2018). DOI: 10.1016/j.neuron.2018.09.025	Post-fixed observation of mouse acute hippocampal slice with CUBIC
80)	Bozycki, L. <i>et al.</i> : "Whole-body clearing, staining and screening of calcium deposits in the mdx mouse model of Duchenne muscular dystrophy.", <i>Skeletal Muscle</i> , 8 , 21 (2018).	develop a methodology suitable for rapid and high-resolution screening of calcium deposits within the entire murine organism by using perfusion-based CUBIC protocol.
81)	Arima, Y. <i>et al.</i> : "Evaluation of Collateral Source Characteristics With 3 - Dimensional Analysis Using Micro-X - Ray Computed Tomography.", <i>Journal of the American Heart Association</i> ., 7 , e007800 (2018).	Embryonic 3D imaging with CUBIC
82)	Ando, K. <i>et al.</i> : "Chapter 21 - 3D imaging in the postmortem human brain with CLARITY and CUBIC.", <i>Handbook of Clinical Neurology</i> , 150 , 303 (2018).	
83)	Pavlova, PI. <i>et al.</i> : "Optimization of immunolabeling and clearing techniques for indelibly - labeled memory traces." <i>Hippocampus</i> , 28 , 523 (2018). EAP DOI: 10.1002/hipo.22951	FP表达样品的免疫染色, 尝试多种的透明化方法后应用modified CUBIC法
84)	Kumar, M. <i>et al.</i> : "Low cost light-sheet microscopy for whole brain imaging", <i>Proc. SPIE</i> , 10499 , (2018) Three-Dimensional and Multidimensional Microscopy: Image Acquisition and Processing XXV, 104991	Use CUBIC protocol for mouse brain clearing & imaging by using custom-build low-cost LSM
85)	Justus, D. <i>et al.</i> : "Glutamatergic synaptic integration of locomotion speed via septoentorhinal projections", <i>Nat Neurosci</i> , 20 , 16 (2018). doi:10.1038/nn.4447	Brain imaging with CUBIC
86)	Young, CNJ. <i>et al.</i> : "Total absence of dystrophin expression exacerbates ectopic myofiber calcification, fibrosis, and alters macrophage infiltration patterns.", <i>The American Journal of Pathology</i> 2019 , DOI: 10.1016/j.ajpath.2019.09.021	Whole-body tissue clearing, imaging, and analysis of Duchenne muscular dystrophy model mouse with alizarin red staining
87)	Yin, X. <i>et al.</i> : "Spatial Distribution of Motor Endplates and its Adaptive Change in Skeletal Muscle.", <i>Theranostics</i> ., 9(3) , 734 (2019).	Clearing of mouse muscle (comparing several clearing methods including CUBIC)
88)	Yang, D. <i>et al.</i> : "Axon-like protrusions promote small cell lung cancer migration and metastasis.", <i>bioRxiv</i> , (2019). DOI: 10.1101/726026.	Whole-mount immunostaining of cancer tissue in the mouse model with 1st gen. CUBIC.
89)	Xu, Y. <i>et al.</i> : "Imaging the brain in 3D using a combination of CUBIC and immunofluorescence staining. ", <i>Biomed Opt Exp.</i> , 10(4) , 2141 (2019).	A case report of 3D immunostaining with CUBIC.
90)	Watanabe-Takano, H. <i>et al.</i> : "Periosteum-derived Osteocrin regulates bone growth through both endochondral ossification and intramembranous ossification.", <i>bioRxiv</i> , (2019)	Whole-mount b-gal staining and CUBIC clearing of whole mouse body
91)	Wang, G. <i>et al.</i> : "Abnormal Behavior of Zebrafish Mutant in Dopamine Transporter Is Rescued by Clozapine.", <i>iScience</i> ., 17 , 325 (2019).	Used CUBIC to visualize TH+ neurons throughout the entire adult zebrafish brain
92)	Vints, K. <i>et al.</i> : "Modernization of Golgi staining techniques for high-resolution, 3-dimensional imaging of individual neurons.", <i>Sci Rep</i> , 9 , 130 (2019).	Combination of modernized Golgi staining and 3D observation with CUBIC
93)	Vergara, C. <i>et al.</i> : "Amyloid- β pathology enhances pathological fibrillary tau seeding induced by Alzheimer PHF in vivo.", <i>Acta Neuropathologica</i> , 137 , 397 (2019). DOI: 10.1007/s00401-018-1953-5	The 3D-association between amyloid and tau pathologies was analyzed using the CUBIC method for tissue clarification.
94)	Ueda, M. <i>et al.</i> : "Combined multiphoton imaging and biaxial tissue extension for quantitative analysis of geometric fiber organization in human reticular dermis.", <i>Scientific Reports</i> , 9 , 10644 (2019).	3D imaging of human skin with CUBIC

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105)	Nishimura, K. <i>et al.</i> : "Application of Direct Sonoporation from a Defined Surface Area of the Peritoneum: Evaluation of Transfection Characteristics in Mice.", <i>Pharmaceutics</i> 11 , 244 (2019).	Immunohistochemical application of CUBIC with mouse tissue
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107)	Menshykau, D. <i>et al.</i> : "Image-based modeling of kidney branching morphogenesis reveals GDNF-RET based Turing-type mechanism and pattern-modulating WNT11 feedback.", <i>Nature Communications</i> , 10 , 239 (2019).	Whole mount pERK immunostaining of mouse kidneys from E12.5 embryos by using CUBIC
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110)	Luxey, M. <i>et al.</i> : "Development of the chick wing and leg neuromuscular systems and their plasticity in response to changes in digit numbers.", <i>Developmental Biology</i> , (2019). DOI: 10.1016/j.ydbio.2019.10.035	Whole-mount immunostaining and tissue clearing of chicken embryo
111)	Li, Y. <i>et al.</i> : "An applicable whole-mount immunolabeling method for volume imaging of skeletal muscle.", <i>SPIE BiOS</i> , 2019, Proceedings Volume 10865, Neural Imaging and Sensing 2019; 108651E DOI: https://doi.org/10.1117/12.2509836	whole-mount immunostaining and volumetric imaging of skeletal muscle with combination of CUBIC and iDISCO.
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