No	Name	Affiliation	Department	Positions	Title	Abstract:	Provide
1	Wei-Chang Lo	Academia Sinica	Institute of Physics	Postdoc	Three-Dimensional Traction Force Microscopy by Machine Learning	Traction force microscopy (TRM) is an important tool to measure the force transmitted between the cell and the external microenvironment. However, calculating the stress from the displacement of markers is a d-line grant integrate problem. Kerl of the TTM experiments to date thus are performed on a two-dimensional fat generity, which is usually solved by incorporating the theory of lnear elasticity with regularization. Nonetheless, neural network-based machine karing bas been shown to be a promising alternative to which is usually solved by incorporating the theory of lnear elasticity with regularization. Nonetheless, neural network-abst and machine karing bas been shown to be a promising alternative for solving such merse problems. Kere, we propose a workflow to perform three-dimensional TRM by an anahine learing bas adaptaced, which combine physics-informed metheral relative to the finel element method to solve the equators of elasticity. Specifically, the implementation of the training dataset and the boundary conditions associated with the three-dimensional TRM setup are clarified in this proposal.	1
2	Yan-Hsien Chen	Academia Sinica	Institute of Atomic and Molecular	S Master degree student	Enhanced 3D Nanoparticle Tracking with Spiral Phase Interferometric Scattering Microscopy (SP-iSCAT)	Interferometric Scattering (SCAT) microscopy is a highly sensitive technique that measures the linear scattering signals of individual nanoparticles through image-based interferometric detection. However, the application of SCAT to 3D particle tracking has been limited by the oscillation of the signal-to-noise ratio (SNR) when particles move along the axial direction. In this work, we introduce a strategies to overcome the limitation by every distributing the phase of a particle's nature field using a signal phase mask at the back puppline. Our approach, thereof. 'spinol phase SCAT microscopy (SP-SCAT), 'maintain a consistent SNR as particles moves, thus enhancing the accuracy of particle localization in SD. We evaluate the performance of SP-SCAT introduce as strategies and the strategies of spinol strategies and as 20 nm in diameter at a high speed of 20000 frames particles of spinol strategies of spinol strategies and mass density of individual nanoparticles in solution, opening the door to the investigation of biological nanoparticles in complex systems, such as cell veisides and virus particles.	1
3	Bo-Kuan Wu	Academia Sinica	Institute of Atomic and Molecular	S RA	Enhancing Interferometric Scattering Microscopy by Optimizing Light Coherence for Superior Nanoparticle Tracking and Mass Detection	Optical interference microcoxy is a valuable tool for label-free valuation of biological statis. Recent educates in interferencemic castering (GCAT) microcoxy have enabled the observation of nanoxine vehicles and the start of label-free valuations of biological statis. Recent educates in interferencemic castering (GCAT) microcoxy have enabled the observation of nanoxine vehicles and the start of label-free valuations of label transport the statistical statistical gradient and the statistical problem. Intercocine vehicles were detected and the start of label-free valuations in interference of statistical resolution in complex transport have been ananoxine vehicles. Howevel, excession observes and as specified and fringer, which may reduce spatial resolution in complex tree-dimensional samples like biological onlis. Optimizing illumination coherence is thus crucial for high-performance IGCAT microcopy. In this work, we optimized the coherence properties of the light source of SCAT. This technique allow been form minimates analytical statistical analysis (RNT) and mass photometry. Carefully electric parameters of spatiotemporal coherence, we improved signal sensitivity and minimate background noise. These adjustments enabled us to accurately track ranoparticle tracks and program advantageous for both NTA and mass detection applications is advantageous line been statistical analysis. Been advances were allows for the valuatation of expected vehicles and mass tracks and thereacting, used transport to tracks and the substatistic statistical analysis. Been advances were allowed to the substatistic statistical analysis (BVL) and thereacting advances were allowed for the valuation of expected vehicles. This entry and been been form minimate and been advances and the substatistic statistical analysis (BVL) and thereactistic statistica	1
4	Lizhen Huang	Nanyang Technological University	School of Chemistry, Chemical Engineering and Biotechnology	RA	3D Distortion Calibration for Expansion Microscopy using Patterned Nanopillar Arrays	Expansion microscopy (ExM) provides a unique high-resolution solution for biological imaging that physically increases the dimension of biological samples to bypass the constraints of the light diffaction limit and avoid the requirement for sophisticated optical set-up. However, the expansion process may introduce physical distortions in the gdt comproming the accuracy for the 3D visualization of nameter-scale cellabut structures. Here, we present our efforts in applying enteralizing arrays in conjunction with EMM achieves the analysing the structure set on the structur	1
5	CHONG SIAN KANG	Nanyang Technological University, Singapore	CCEB	Master degree student	Curvuatre-Facilitated Membrane Intercalation of Conjugated Oligoelectrolytes (COEs)	Conjugated oligoelectrolytes (CCEs) are fluorescent, amphiphilic molecules that can spontaneously integrate with lipid bilayer membranes. Due to their adjustable molecular lengths and charged groups, COSS enhibit selective antimicrobial capabilities by impacting lipid bilayers of varying compositions. Howeve, the mechanism underging CCE-membrane interactions and their influence on membrane efformability at the nonaccal envanise poly understood. This study introduced a nanostructure-upported lipid bilayer partierm to invisorigate the interactions behavior of a series of CCEs with varying molecular designs into synthetic membrane. Intriguingly, our results revealed a significant preference of these COEs for highly curved membrane regions that can be uneed by the length and dragers of the molecular designs. These finding educate the membrane geometry as a new angle to interpretate COE-membrane interactions and underscore the ortical role of molecular design in developing effective antimicrobial strategies.	1
6	NA QIN	Nanyang Technological University	School of Chemistry, Chemical Engineering and Biotechnology	PhD Student	Differentiation Of Thyroid Cancer Phenotypes Through Subnuclear Deformation Patterns On Nanopillar Arrays	Thytoid cancer is one of the most prevalent cancers in the world. The presence of nuclear anomalies, such as subnuclear folds and grooves, is a vital feature of thyroid cancer biopsies for diagnostic purpose. However, the accuracy and categorization of thyroid cancer are related on the pathologin's expension and a significant portion of cases yield incord.usive reality, moders morphology aberations into oriented and quantifiate annocade patterns. These pathems fields where they distriguish of there are presented and cases in the mathologin's expension and a significant cancer calls. Independent on the pathologin's expension and a significant cancer calls. Independent on the pathologin's expension and cancer calls. Independent on the pathologin's expension microcale deformation are equal to accurate calls. Independent on the pathologin's expension microcale deformation are equal to accurate calls. Independent on the pathologin's expension microcale deformation are equal to accurate calls. Independent on pathologin's expension microcale deformation are equal to accurate calls. Independent on pathologin's expension microcale deformation and expension microcale deformation and expension microcale and the anomalian of the pathologin's expension and expension and expension and expension microcale deformation are metatic behaviours, such as migration, adhesion. We envision that this nanopliar-based platform will act as an effective tool in quantifying the nuclear iregularities, improving the diagnosis of thyroid cancer.	1
7	Chi-Shuo Chen	National Tsing Hua University	Dept of Biomedical Engineering and Environmental Sciences,	Professor	The Broadcast of Mechano-Signaling in Glioma Spheroid: Physical Contacts with Microglia Alter the Rheological Characteristics of Glioma Collectives	Cell mechanics serve essential roles in tissue development and cancer progression; cells can sense the mechanical properties of the microenvironment and modulate their physiological functions accordingly. Cellular force signals propagated between cells, however, the mfunctes of cellular force on the mechanical abration of all collectives in 3-dimension remains targely undersplored Considering the ortifical roles of microgia in gloren progression; using a sch-detartion approach, we studied the mjacts of microgia on the mechanical properties of the gloran spheroid (Chi Quell) and mechanical abratements of glorana spheroid (Chi Quell) and mechanical abratements of glorana spheroid (Chi Quell) cells (an modulate their prospical difference was observed was observed in the absence of glorana stapitori (difficult) evels of the microgia (all (Chi Quell) attached to the perphery of glorana spheroid (Chi Quell) cells (an modulate their sinces) at the absence of glorana stapitori (difficult) evels of the absence of glorana stapitori (difficult) evels and the absence of glorana stapitor (difficult) evels and the absence of glorana stapitor (difficult) evels and the absence of viscolatistic of a glorana difficult and the absence of viscolatistic of a glorana difficult and the absence of the absence of the absence of the absence of viscolatistic of a glorana stapitor (difficult) evels and the absence of a glorana stapitor (difficult) evels and the absence of absence of the absence of absence of the absence o	1

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8	Bo-Kai Wang	Academia Sinica	Institute of Biomedical Sciences	Postdoc	Centrosome Migration and Apical Membrane Formation in Polarized Epithelial Cells	Polarization is crucial for the proper functioning of eighthelial cells. Early polarization features include the trafficting and emicintement of polarity molecules to form the apical membrane (AMI) or cell or eight participations, and its the pacial positioning of the centrosone. However, the dependencies among polarity molecules, AMI formation, and centrosone positioning remains, and polarization can cost when a single cell divides. At the exit of introisis, centrosone moves to the location where the apical membrane (AMI) or cell difform, raining the question of the rest of the entrosone in ephelial polarization. We perture detrosomes and polarity regulators in Matrigel-culture cells and also manylate polarity direction in non-conventional cultures to examine the relationship between polarity features. Surprisingly, the centrosome is not essential of AMI formation but promotes formation efficiency. The polarity regulators Tail. Alter than the trafficing of AM components, affects carbicine polarity, the centrosome position is not universal and elucidates the upstream- downstream relationship between centrosome position is not universal and elucidates the upstream- downstream relationship between centrosome positioning and other polarization features, providing insights into epithelial polarization.	0
9	Yen Chiu	National Central Universi	Department of Physics	Master degree student	Interaction between multi-size bacteria among swarming dynamics	Utike swimming in a 3D environment, swaming in micro-organisms is a collective behavior exhibited by rod-like bacterial driven by flagella on a semi-cold, it has been accepted that bacterial swaming is governed by short-array evolume exiscon and ong-range hydrodynamic interaction. Before the swaming state, the exil body dispats to adapt to the habitat change. Previous studies have many flocused on the distribution of velocity and version year. The velocity adapt to the constraint of the studies law entry for the distribution of velocity and version year. The velocity adapt to the distribution of velocity and version year to exist on the same state in the same state is called to solve us when the same state in the same state is adapt to the sace in the same state in the same state in the same state is adapt to the sace in the same state in the same state in the same state is adapted to add the same state in the same state is adapted to add the same state in the same state is adapted to adapted to adapted the same state is a sace in the same state is a sace in the same state is a sace in the same state is adapted to adapted the same state is a sace in the same state is adapted to adapted the same state is adapted to adapted the same state is a sace in the same state is adapted to adapted to adapted the same state is adapted to adapted the same state is a sace adapted to adapted the same state is adapted to adapted to adapted the same state is adapted to adapted to adapted the same state is adapted to adapted the same state is adapted to adapted the same state is adapted to ada	1
10	Chia-Hsuan Tsou	NDHU	Physics	Undergrad	Interaction of Nanodiamond-drug complex treatment and P-glycoprotein in multiple cancer cell lines to overcome drug resistance	Nanodiamond (ND) has been demonstrated with exceptional biocompatibility and low cytotoxicity across various cell lines, establishing it as a reliable and safe platform for use as a nanocarrier in biological and medical applications. In this study, NO-15A-DOX was formed by corpugating human serum albumin (HSA) and discontation (DOX with ND, ND can deliver diugs to turnur (HSA) in the web yos of 3D co-collume model. "Single-played carcences and the study in the study (ND-16A-DOX was formed by corpugating human serum albumin (HSA) and discontation (DOX with ND, ND can deliver diugs to turnur (HSI) to develop their bypes of 3D co-collume model. "Single-played carcences and." "minotic o-collume". Individual mumor splexediate, MCTS) compared to the pure develop to turnur seases di in three period 3D wCTS are done to real human conditions and; Our enaits show that ND-16A-DOX human terms replexeding DOX in 3D co- culture MCTS. The crucial gene MDRI (MUIti-duig gestance) is known for causing drug resistance, leading to the efflux of drugs by P.gp (P-g)/coprotein), P-gp is an ATP-binding castete (ABC) ensities to verify the characteristics of P-gp and compare to interactions with different treatments.	1
11	Hannah Katrina Co	Academia Sinica	Institute of Molecular Biology	PhD Student	Emergence of large-scale cell death via trigger waves of ferroptosis	Large-scale cell death is commonly observed during organismal development and human pathologies. These cell death events extend over great distances to eliminate large populations of cells, raining the question of how cell death can be coordinated in space and time. One mechanism that enables long-range signal transmission is tringer waves, but how it might be utilised for death death coordinates and the coordinated in space and time. One mechanism that enables long-range signal transmission is tringer waves, but how it might be utilised for death deathcare (a 5 minut constant speed). C 5 minution integration is not provide the transmission is primary losi of DOS, forehold using provide protect perturbations radius per provide (of DOS). Chemical dog perturbations radius per primary losi of DOS, forehold using perturbations and the properties integration and perturbation is disclared to perturbation in the state of the perturbation is disclared to perturbation in control speed). See the perturbation is disclared to perturbation is disclared to perturbation in control speed (of DOS). Chemical dog perturbations and the propagation corrolling the propression of ferroptots the base base head loops, controlling the state state in the state base base base base base base base bas	1
12	Po Yu Chen	National Cheng Kung University	Institute of Basic Medical Science	PhD Student	Discoidin domain receptor 1 promotes focal adhesion maturation and suppresses podosome formation through integrin ß1 activation triggered by matrix rigidity	Protection reaches from the implantment of collegen thermostatis, fluiding outgane filter origination and collegen departation. Discord indexists (FICRE) is a collegen teceptore that is comparative in minimal instemic observation (RUD)-relative and Ibroxis. We lead that TGF-R) is a collegen teceptore that is NRKOF cells. Although incoded with relative ICG-R) included mysfibrobiat statution, imminishing whether cells during the cells and the cells of the	1
13	Aoi Otsuka	Graduate Institute for Advanced Studies, SOKENDAI	Department of Genetics, School of Life Science	PhD Student	Chromatin organization and behavior in HRAS-transformed mouse fibroblasts	In higher eukaryotic cells, a string of nucleosomes, where long genomic DNA is wrapped around core histones, are rather irregularly folded into a number of condensed chromatin domains, which have been revailed by super-resolution imaging and H-C technologie. Inside these domains, nucleosomes fluctuate and locally behavior of chromatin may be highly related to DNA transaction activities and a strass-right are often upregulated in CRAF as a fluctuate and locally behavior. If chromatin may be highly related to DNA transaction activities and a strass-right area often upregulated in CRAF as a metatatat. First, we found that HAX-inclued transformation altered in only chromatones structure, but also nuclear morphology in the HAS. The structure are locally more constrained in CRAF-3 cells, which likely represents transcriptionally inactive chromatin. Increase therechromatin may play an important role in edim grading as they have been reported to increase during metatasis. Our study also suggests that single-nucleosome imaging provides new insights into how local chromatin is structured in living cells.	1
14	Miao Xinwen	Nanyang Technological University	School of Chemistry, Chemical Engineering and Biotechnology	Postdoc	Nanoscale Saddle Curvature Guide Chikungunya Virus Replication Complex Assembly via Nonstructural Protein 1	The reglication of many detrimental RNA viruses, including SARS-COV-1 and -2, DENV, and HCV, are found to take place in nanoscale curved membrane compartments in host cells. This process is controlled by a few ron-structural viral proteins (rsh). However, the molecular mechanism of how rsh ² assemble around the curved membrane to form viral reglication complexes is surgely undear. It is many due to the technical includinges to probe the interaction between RNA and the curved membrane holds in the diplet, the instructural viral and subject in vita on an unsetting the timestant of the rest and membrane holds in the diplet in the study. We designed and bitschared a series of nanostructure arrays to generate pre-defined membrane curvatures both on the plasma membrane of live cells and on supported lipid blayer in vito and intestigate the impact of viral mRNC curvature sensitivity on the assembly of the Chikungung Viral (CHIKU) replication complex. Curvature wiral prederential accurvature and stabilize around nanoscale saddle curved sites. The cell membrane can facilitate the local enrichment of res ² s in a curvature-dependent way, which contributes to CHIKV replication.	1

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	Karen G. Rosal	Academia Sinica	Institute of Physics	Postdoc	Role of Apical Actin-Myosin Network in Regulating Tight Junctions in MDCK Cells	Role of Apical Actin-Myosin Network in Regulating Tight Junctions in MDCK Cells	
						Karen G. Rosalt, Chia-hsuan Lu2, Fu-Lai Went, Shawn Ching-Chung Hsueh3, Wen-hsiu Wu4, Yu-Fang Lin5, Mathieu Prouveur6, Thomas Boudier7, Keng-hui Lint, 8 1. Institute of Physics. Academia Sinica. Taipei, Taiwan	
15						 Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan 	1
						3. Department of Physics, University of British Columbia, Vancouver, Canada 4. Department of Physics, National Tsing-hua University, Hsinchu, Taiwan 5. Department of Detrical Engineering, National Taiwan University, Taipai, Taiwan	
						5. Department of Declina in Aprileo ing, National named for weaky, named 6. Department of Applied Mathematics, Mines ParisTech, Paris, France 7. Sorbone University, Paris, France	
	Yu-Jung Su	Academia Sinica	Physics	RA	Negative Curvature Induce Cellular	Yu-Jung Sut (蘇昱胞), You-Hsuan Liut,2 (例又重), Bor-Lin Huang1 (黃怡葉), Karen G. Rosalt (羅凱倫) and Keng-Hui Lin1 (林耿慧)	
					Responses on Cell-cycle Arrest and Adipogenesis	L. Institute of Physics, Academia, Sinica, Taipei, Taiwan 2. Genome and Systems Biology Degree Program, National Taiwan University, Taipei, Taiwan	
16					, capege lesis	Abstract:	1
10						Cells grown in 3D environment often exhibit different morphological and epigenic response from cells grown on traditional 2D culture. Previously, our lab demonstrated that spherical microwells	
						serve as good approximation for 3D cuture. However, the throughput of microwells in earlier study was low, only 10.10 microwells were generated for each chip. In this study, we created O(D0) 100 microwells was a 2222 mm2 course) as and cutured human meserchymatis tem elik (MNS-1) in the large arays. This new chip generates encouple cells for thow ychomety and RMX-seq analysis. We found MMSCs in small microwells do no proceed normal cell cycle and higher cycloplasmic retention d yes associated protein (MP) in cells in small microwells (60 mm1) compared which cells in 100-mm1 microwells. We also found that MMSCs, prefer adoppend cell fibertial microwells functions. The microsense was also found that MSCs in prefer adoppend cells for the work of the third analysis show that differentiation resplexes in starting that differentiation started genes are up-	
	Jen-Hao Cheng	Academia Sinica	Institute of Molecular Biology	PhD	Self-organized cellular patterns orient cell	Collective cell behavior generates a multitude of cellular patterns that exhibits specialized cell alignments, densities and macroscopic structures through cell self-organization. The formation of these cellular patterns revers as a foundation for morphogenesis and development. Despite the ubiquity of cellular patterns in tissues, how it may impact the homeostasis of the entire cell	
				Student	death trigger wave	population in the face of stress remain unexplored. Here, we showed that the emergent cultular patterns can prime cells for differentiate sensitivity to ferroptosis, an iron and fipid periodiation- dependent form of cell death. Ferroptosis induced large-scale cell death has been shown to propagate without spatial ilmitation as trigger waves, threatening the viability of the whole cell population. However, in the presence of self-organized cellular patterns, cell death propagation is oriented in direction and speed by the spatial arrangements of cells, resulting in distinct spatial	
17						distributions of dead and surviving cells. The wave initiates in areas of cellular misalignment and lower cell density, particularly at sites of specific cellular patterns known as topological defects. Once initiated, the wave travels rapidly along aligned cells, but decelerates when encountering cells oriented against its path or when passing through high density regions. We further discovered	
17						this phenomenon is attributed to the polarized distribution of oxidizable lipids in the membrane of individual cells. Our findings show self-organized cellular patterns in a cell population direct propagation of large-scale ferroptotic cell death, featuring how collective cellular behavior in tissues and organs influences subnerability to ferroptosis.	
	Samuel Herianto	Academia Sinica	Chemistry	PhD Student	Reconstitution of phage shock protein A (PspA) synthesis and polymerization using	Phage shock proten A (PspA) is a membrane-associated protein that is believed to play a critical role in bacterial membrane sucro, yet, its mechanism is less understood. In this study, we reconstituted the cell-free PspA synthesis within [posomes and observed its phenotypic effects on membranes. This process is highly critical for the development of a self-sustained artificial cell model with cell-kep propriets induced by self-synthesized proteins that are generated from its generic level. In this study, we successfully designed multiple plasmics for pspA and translated them model with cell-kep propriets induced by self-synthesized proteins that are generical from its generic level. In this study, we successfully designed multiple plasmics for pspA and translated them set of the second	
				Student	a cell-free system and liposomes	to PspA using cell-free protein synthesis (containing in-vitro transcription and translation molecules extracted from E. coli) in both bulk and liposomes. In particular, PspA contains 5 α-helices (α1- α5); and here, the process of synthesis of each truncated α-helix was also successfully demonstrated. Moreover, cell-free synthesis of PspA (full-length, α1, α12, α123, and α1234) in a bulk system	
18						revealed aggregation and oligomerization (self-assembly) and formed µm sized filament-like structures, hiphiphing the oricial role of on polymerization and filament formation. Interestingly, when encapsulated within liposomes, these proteins induced the shape change in the liposomal membrane to the more elongated. In Cyc-EM analysis, these proteins are capable to binding with membranes, restain grature (hole-like structure), and edenoming liposomis into several shapes, such as tubule membranes, elongated membranes, internal budding, and endocrtosis (fission).	1
						This result implies that PspA (mainly through of) may somehow remodel the membranes through interactions and further induce deformation. Overall, we highlight that of plays vital roles in PspA aggregation/polymerization, membrane interaction, rapture, fission, and shape deformation. We assume that these phenotypes may be the intermediate process of membrane fusion.	
	Cheng-Yu Chang	NDHU	Physics	Undergrad	Evaluation of Nanodiamond- Polycaprolactone composite for	Nanodamonds (ND) are promising material for various biological purposes. In this study, detonation method produced Nanodiamonds with an average size of 5 nm had been certificated the antibacterial properties. We combined NDs with 3D printing material Polycaprolatone (PCL) to create an antibacterial composite. Raman spectroscopy played a pixotal role in characterizing ND- PCL, verifying the combination of ND and PCL was successful. Furthermore, Raman mapping images of ND-PCL were obtained to confirm the uniform distribution of ND throughout the	
					antibacterial activity against Escherichia coli	composite. After sample preparation, we subsequently investigated the antibacterial effect of ND-PCL against gram-negative bacteria Escherichia coli (E. coli). UV-visible spectroscopy was employed to observe the interaction between ND-PCL and E. coli after 24 hrs incubation. Bacterial viability was monitored by measuring optical densities of E. coli at 600 nm in nutritious liquid	
19						Lucia-Betani medium for 24 hrs incubation. The outcome demonstrated the biocompatibility of PCL, and the antibacterial effect was attributed to ND. By comparing the results between pure ND and ND-PCL, we certified the combination didn't reduce the antibacterial effect of ND. This study elucidated an application for ND informing an antibacterial composite with 3D-printing materials, we hope the continued results and and elevent can explore potential of ND composite and utilize in medicine application.	1
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	Ting-Jui Ben	NTU	Department of Electrical	PhD	Multiplexed Nancoscoy via Buffer-	Understanding cellular functions in all their complexity can greatly benefit from spatially mapping of the diverse molecules within a cell using multi-target single-molecule localization microscopy [SMLM]. Current developments primarily rely on fluorescent spectrum. Retirine, or cyclic staning, necessitating complex optical configurations, fluorophore identifications, or labeling designs.	
	Chang		Engineering	Student	exchanged Single-molecule Localization Microscopy	Consequently, there remains a need for a simple imaging platform. Here, we introduce buffer-exchanged STOM(baSTORM), a method that distinguishes between single molecules regardless of their spectral properties by leveraging their responsive blinking behaviors influenced by buffer conditions. Through simple buffer exchange, beSTORM achieves spectrum-unlimited dual or bur-target SMLM maging with minimal constalk (<rm), (em)="" a="" at="" capability="" expansion="" extends="" integration="" its="" level="" microscopy="" molecular="" proteins="" resolve="" single<="" six="" td="" the="" to="" up="" with="" within=""><td></td></rm),>	
20						emission color, free from chromatic aberration. beSTORM's simplicity and compatibility offer a versatile platform for seamless integration with other techniques, promising advancements in highly multiplexed nanoscopy for exploring complex biological systems with nanoscale precision.	1
20							
	Zhi-Yu Peng	NDHU	Physics	Undergrad	Inhibition of melanin production using	ТВА	
					nanodiamond conjugate berberine		
21							1
L	1			1	1	1	