







2024 AI-ABIO SYMPOSIRUM



June 29th, 2024

Gunn Rotunda, E241

290 Jane Stanford Way, Stanford CA 94305

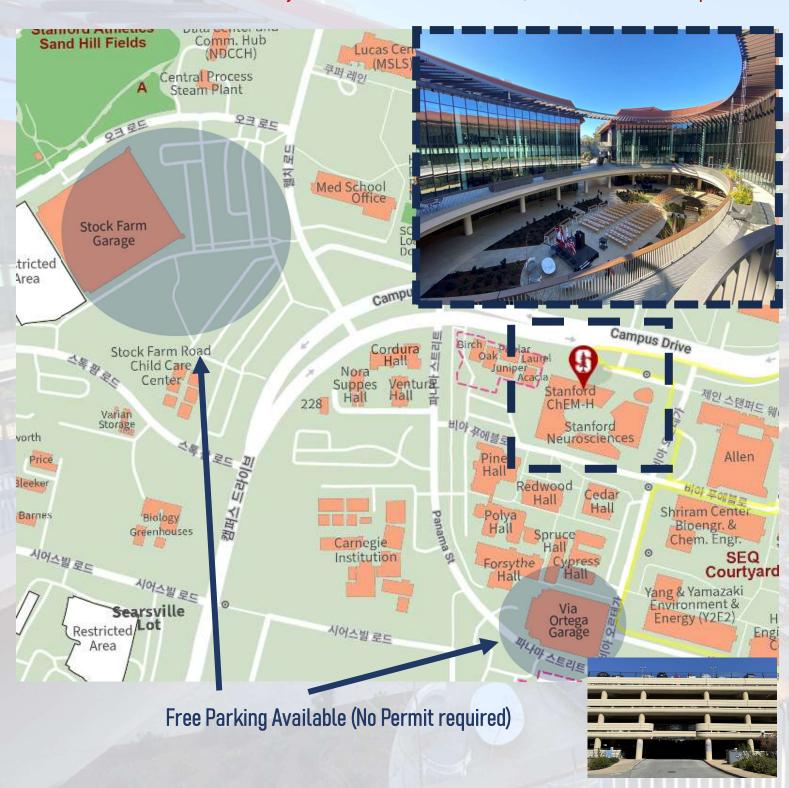
ChEM-H / Neuro Research Complex

Zoom link available upon Registration

Organized by KOLIS, K-BioX, KAMC

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290 Jane Stanford Way, Stanford CA 94305; ChEM-H / Neuro Research Complex



Organized by KOLIS, K-BioX, KAMC

안녕하세요 KOLIS 회원 여러분 및 심포지엄 참여자 여러분,

저는 현재 Stanford 대학에서 Joseph Wu 방에서 Instructor로 근무하고 있는 장원석이라고합니다. 저는 2020년부터 포닥생활을 시작했고 제가 온 6월은 말 그대로 COVID가 가장 hot할 때였습니다. 미국에 아무런 연고도 없이 처음 포닥 생활을 시작했을 때 기초적인 생활관련된 조언을 얻을 만한 장소도, 연구에 관해 담소를 나눌 친구도 없었습니다.

그러다가 KOLIS를 알게 되어 같은 시기에 Bay 지역에서 활동하고 계시는 박사님들을 여러 만나게 되고 비 미국인으로서 공감대를 형성하고 연구에 대한 토론을 나눠서 매우 뜻깊었습니다. 하지만 pandemic 시기의 여파로 in-person의 교류가 줄어서 항상 아쉽게 생각했었습니다.

그러는 와중에 같은 랩에 Instructor로 조인하신 리시연 박사님을 만나고 리 박사님의 K-BioX를 통해서 전 세계 한인 과학자분들을 연결시킨다는 포부를 듣고 매우 놀랐고 공감을 많이 했습니다. 이번 학회는 K-BioX와 공동으로 주최하여 더 많은 사람들의 교류를 이끌고특히 Bay 지역에 계신 우수한 박사님들을 한자리에 모시게 되어 영광입니다.

저희의 이러한 대면 모임이 일순간이 아니고 지속되도록 KOLIS를 더 체계화하고 조직적으로 운영하여 Bay 지역에 계신 박사님들이 뜻깊은 교류를 할 수 있게 정진하겠습니다.

아울러 현 KOLIS가 있을 수 있게 열심히 노력해주신 전임 임원진 여러분들과 현임원진분들, 그리고 전/현 후원사분들께 감사의 인사를 올리고 싶습니다.

앞으로도 많은 응원 부탁드립니다.

감사합니다.

장원석 드림

2024 KOLIS 회장



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안녕하세요 KOLIS 회원 여러분 및 심포지엄 참여자 여러분.

저는 K-BioX 공동창립자이자 대표 운영위원으로 학술 활동을 하고 있는 리시연입니다. 또한 2015년부터 KOLIS 스탠포드 회원으로서 많은 혜택을 받으며 활동해왔습니다. 이렇게 축사를 남길 수 있게 되어 영광입니다.

특히 이번 2024년 KOLIS 심포지엄은 한국 KAMC 의대협회와 함께, 전 세계 생명과학자의소통을 돕고 있는 K-BioX가 함께 참여하게 되어 감회가 깊습니다. K-BioX는 스탠포드와버클리의 연구원들이 함께 만든 비영리 학술단체여서, 그 모태는 KOLIS라고 할 수있습니다. 콜라보레이션이 강조되는 현시점에 이렇게 심포지엄을 함께 준비하게 되어 많은연구자들의 학술 활동을 돕게 된 것이 매우 큰 의미가 있습니다.

미국 서부지역의 바이오 인재들이 모여 과학 학술 축제를 펼치는 자리에 참여하게 되어 매우 기쁘며, 작게나마 도움이 될 수 있어 영광입니다. 앞으로도 KOLIS 회원분들이 더 많은학술 활동을 통해 글로벌 소통을 지속하실 수 있기를 바랍니다.

K-BioX가 만들어지는 데에 KOLIS의 큰 도움을 항상 감사하게 생각하며, 앞으로도 KOLIS가 여러 기관들과 소통할 수 있도록 작게나마 도움이 되기를 희망합니다. 이번 심포지엄이 AI 바이오 최신 기술뿐만 아니라 여러 진로에 대해 논의하는 유용한 자리가 되기를 바랍니다.

앞으로도 많은 응원 부탁드립니다.

감사합니다.

리시연 드림

K-BioX 공동창립자 및 대표 운영위원





Organized by KOLIS, K-BioX, KAMC

Time (PS	Γ)	Title & Speaker
8:30 AM	30'	Registration with Welcome Refreshment
9:00 AM	15'	Opening Remark: Jahng Won Suk, PhD / KOLIS President / Stanford Welcome Remark: Lim Jung-taek, Consul General / Consulate General of Republic of Korea in San Francisco Congratulatory Remarks: Shin Chan-Soo, MD / Seoul National University / KAMC
9:15 AM	95'	Session 1: Evolution of Al and Its Application in Healthcare moderated by Jeehee Lee, KOLIS Stanford Rep
9:15 AM	15' 5'	"Data-driven discovery of neural computations through brain-wide and cell-type-specific dynamical systems" Jo Youngju, PhD Candidate / Karl Deiseeroth Lab @ Stanford
9:35 AM	25' 5'	"Finding Signal in the Noise for Lab-in-the-Loop Molecular Design" Park Ji Won, PhD / Principal Machine Learning Scientist @ Genentech/Roche
10:05 AM	25' 5'	"Don't teach. Incentivize" Chung Hyung Won, PhD / Research Scientist @ OpenAl
10:35 AM	15'	Coffee Break sponsored by Agilent
10:50 AM	105'	Session 2: Keynote Presentations moderated by Jeehyun Yoe, KOLIS Planning Director
10:50 AM	35' 5'	"Al in Medical Image Generation, Correction, and Interpretation" Seo Youngho, PhD / Professor of Radiology @ UCSF
11:30 AM	35' 5'	"Explainable AI for health: where we are and how to move forward" Lee Su-In, PhD / Paul G. Allen Professor of Computer Science & Engineering @ UW
12:10 AM	20' 5'	"Evaluating AI for Clinical Adoption" Na Hye Sun, BSc / Director @ Stanford AI Evaluation Lab
12:35 AM	40'	"The next phase of AI/ML research and chance for biologists"
		Seo Youngho, PhD / Professor of Radiology @ UCSF Lee Su-In, PhD / Professor of Computer Science & Engineering Park Ji Won, PhD / Principal Machine Learning Scientist @ Genentech/Roche Chung Hyung Won, PhD / Research Scientist @ OpenAl Na Hye Sun, BSc / Director @ Stanford Al Evaluation Lab Jo Youngju, PhD Candidate / Karl Deiseeroth Lab @ Stanford
1:05 PM	70'	Lunch & Networking with AI/ML Experts Lunch from Yojimbo
2:15 PM	15'	Sponsor Remarks LigaChemBio Tomocube (क्षेत्रथ्यभाषं अवस्य प्रमुख्ये SCCIONCC (VIIHAN (LGChem)
		한국의과대학·의학전문대학원협회 SCCIOACC WHAN ULife Sciences Company
		KASBP MEDIC MEDIC GC Biopharma Control Agilent Agilent
, Y2:30 PM	60'	Session 3: KOLIS Research Talks - Selected Abstracts moderated by Yunkyeong Lee, KOLIS Treasure
2:30 PM	12' 6'	"The structural organization of the human CEP matrix across multiple length scales" by Jung Jae-Young, PhD / UCSF "Engineering the world with DNA nanostructures" by Kim Myoungseok, PhD Candidate / UC Berkley "Tracing cancer evolution using multi-omics data" by Park Seongyeol, PhD / Stanford "Using published pathway figures in enrichment analysis and machine learning" by Shin Mingyuong, PhD / Gladstone "Green Alga Chromochloris zofingiensis Maintains Soil Substrate Uptake but Changes Metabolic Use During Trophic Transition" by Kim Nakian / UC Berkley "Postnatal exposure to pesticides and risk of autism spectrum disorders" by Park Eunyoung / UC Davis
3:30 PM	10'	Session break

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Time (PS	T)	Title & Speaker			
3:40 PM	75'	Session 4: Career Development moderated by Heejae Ko, KOLIS Public Relations			
3:40 PM	10'	"Blossoming academic collaboration" Rhee Siyeon, PhD / K-BioX President & Instructor @ Stanford			
3:50 PM	25' 5'	"My experience as a scientist in biotech industry" Yoon Oh Kyu, PhD, MBA / Director & Head @ Gilead Science / KASBP-SF President			
4:20 PM	25' 5'	"10 Things Wish Knew 10 Years Ago" Park Yongkeun, PhD Professor of Physics @ KAIST			
4:50 PM	15'	Boba Break			
5:05 PM	75'	Session 5: Korea Academic Job moderated by Siyeon Rhee, K-BioX			
5:05 PM	45'	Academic job fairs in Korea Seoul National University, School of Medicine Korea University, School of Medicine Yonsei University, School of Medicine POSTECH, Mechanical Engineering SKKU, School of Pharmacy KAIST, Brain & Cognitive Sciences			
5:50 PM	20'	Research pitch talks by KOLIS members Jahng Won Suk, PhD Stanford University Kim Dongeon, PhD Stanford University Kim Myoungseok, PhD Candidate UC Berkeley Rho Jihun, PhD Stanford University Hwang Yeon Mi, PhD Stanford University Lee Jeehee, PhD Stanford University Lee Yunkyeong, PhD Stanford University Moon Chad, PhD Arc Institute Park Seongyeol Stanford University			
6:10 PM	20'	Closing Remark & Raffle & Dinner Korean Buffet			



Session 1: Evolution of AI and Its Application in Healthcare

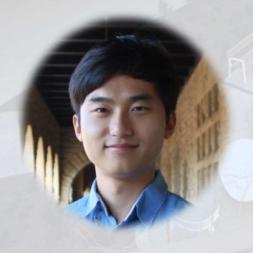
moderated by Jeehee Lee (Postdoc @ Fan Yang Lab, KOLIS Stanford Rep



Ji Won is a Principal Machine Learning Scientist at Prescient Design, Genentech. Her current research probes hierarchical, sparsity-inducing structures in high-dimensional data that can inform inference and adaptive decision-making. She focuses on developing algorithms in Bayesian optimization, uncertainty quantification, and MCMC sampling inspired by challenges in molecular design. In her past life as an astrophysicist, she studied gravitational lensing using hierarchical Bayesian models to understand the origin and evolution of the Universe. She interned at NASA Ames and the Center for Computational Astrophysics at the Flatiron Institute while pursuing her Ph.D. in Physics at Stanford University, which she completed in 2022 under the supervision of Phil Marshall and Aaron Roodman. She holds a B.S. in Mathematics and a B.S. in Physics from Duke University (2017).



Hyung Won is a research scientist at OpenAI. He has worked on various aspects of Large Language Models: pre-training, instruction fine-tuning, reinforcement learning with human feedback, reasoning, multilinguality, parallelism strategies, etc. Some of the notable work includes scaling Flan paper (Flan-T5, Flan-PaLM) and T5X, the training framework used to train the PaLM language model. Before OpenAI, he was at Google Brain and before that he received a PhD from MIT where he worked on renewable energy and clean water systems.



YoungJu Jo is a final-year Applied Physics PhD Candidate at Stanford University, co-advised by Profs. Karl Deisseroth and David Sussillo. He studies systems neuroscience of memory-guided decision-making using large-scale neurophysiology and data-driven computational modeling. Before switching to neuroscience, he worked on holographic optics and deep learning for biomedical applications, which was recognized by the 2022 Agarwal Award (life science paper of the year from KAIST) and commercialized by Tomocube Inc. He received his M.S. in Biology from Stanford (2020) and B.S. in Physics and Mathematics from KAIST (2018).

Session 2: Keynote Presentations

moderated by Jeehyun Yoe, KOLIS Planning Director



Youngho Seo, PhD, is a Professor and Director of Nuclear Imaging Physics at UCSF, where he also leads the preclinical imaging core facility. He holds positions at the Bakar Computational Health Sciences Institute, the Helen Diller Family Comprehensive Cancer Center, UC Berkeley, and Lawrence Berkeley National Laboratory. Dr. Seo earned his bachelor's degree from KAIST, and master's degrees and PhD from UCLA, focusing on dark matter and neutrino physics. Since joining UCSF in 2003, he has led research in radionuclide and x-ray imaging instrumentation, using advanced molecular imaging tools for various research areas including small animal and clinical studies.



Su-In Lee is the Paul G. Allen Professor of Computer Science at UW and earned her PhD from Stanford University in 2009 under Prof. Daphne Koller. Joining UW in 2010 after a visiting professorship at Carnegie Mellon University, she is celebrated for contributions to AI, biology, and medicine. She has received the NSF CAREER Award, ISCB Innovator Award, and the Samsung Ho-Am Prize, among others, and is an ACS Research Scholar and AIMBE Fellow.Renowned for her work in explainable AI (XAI), Prof. Lee developed the SHAP framework. Her research spans basic biology to clinical medicine, leveraging XAI to enhance ML model interpretability and drive discoveries from molecular data and health records.



Hye Sun Na is the Managing Director of the Stanford University Al Development and Evaluation Lab (aide.stanford.edu), establishing and operationalizing the lab's strategy and vision through the responsible development, assessment, monitoring, and improvement of Al models, primarily focused on medical imaging. She has over 14 years of industry experience developing medical devices and digital solutions at GE Healthcare and previously spearheaded the digital ecosystem strategy to accelerate Al application development. Hye Sun received her B.S. in Biomedical Engineering from the University of Texas at Austin and is a member of the American Association of Physicists in Medicine.

Session 2: Panel Discussion with AI/ML Experts

moderated by Jeehyun Yoe, KOLIS Planning Director



Chung Hyung won (OpenAl)



Park Ji Won (Genentech/Roche)



Jo Youngju (Stanford)



Lee Su-In (UW)



Seo Youngho (UCSF/UC Berkeley)



Na Hyesun (Stanford/AIDE)

Panel of AI/ML Experts "The next phase of AI/ML research and chance for biologists"

- Can you provide examples of classic or recent breakthroughs in Al/ML applications in biology or bioengineering? How can we keep up with the emerging literature related to Al/ML?
- How can AI and machine learning be effectively integrated into biological research to enhance discoveries and improve experimental outcomes? If we want to collaborate with you, what do you expect (at a minimum)?
- What are the best practices for biologists who want to start incorporating ML into their research? What resources, tools, or training would you recommend? Is R sufficient?
- Our understanding of biology is still progressing and we may not achieve "perfect" Al in biology anytime soon. How can we effectively utilize Al/ML to advance our knowledge in biology?
- As Al continues to evolve, what should we adopt? How does the update process work, and are there compatibility issues with software upgrades?
- If there are extraterrestrial attempts or deliberate efforts to falsify data, how can Al distinguish between genuine and falsified data?

Session 3: KOLIS Research Talks - Selected from Abstracts

moderated by Yunkyeong Lee, KOLIS Treasure



Dr. Jae-Young Jung, a materials scientist and electron microscopist, is a postdoctoral fellow in Dr. Aaron Fields' lab at UCSF. He holds a PhD in Materials Science and Engineering from UC San Diego (2019) and a BS and MS from Dankook University in South Korea. Dr. Jung's industry experience includes roles at U&i Corporation and KIST, where he developed biodegradable medical devices and advanced materials characterization techniques using electron microscopy. At UCSF, he leads an NIH/NIAMS-funded research project on human disc cartilage and nutrient transport. His accolades include the Jacobs School of Engineering Fellowship and Siebel Scholar recognition. He has 28 peer-reviewed papers, over 50 presentations, and 2 PCT patents, with research interests in electron microscopy, biological materials, medical devices, and biomedical imaging.



Myoungseok Kim is a DNA nanotechnology researcher and Ph.D. candidate under Prof. Grigory Tikhomirov in Electrical Engineering and Computer Sciences at UC Berkeley. He earned his bachelor's degree in Mechanical Engineering from Hanyang University (2020) and a master's degree under Prof. Do-Nyun Kim from Seoul National University (2022). He then worked as a researcher at the Institute of Advanced Machines and Designs, focusing on reconfigurable DNA nanostructures. Kim's research includes controlling the mechanical stiffness of DNA nanostructures and reconfiguring DNA wireframe structures using paper-folding mechanisms. Currently, he develops programmable assembly methods for DNA nanostructures, aiming to build nanoscale optical metamaterials and stiffer DNA origami tethers for protein folding studies.



Min-Gyoung Shin earned her undergraduate degree in mathematics education and computer science from Ewha Woman's University in Korea in 2008. She received her master's degree in Brain and Bio-engineering from the Korea Institute of Science and Technology in 2010, studying yeast gene regulatory pathways and PI3K cancer pathways using bioinformatics. After two years working on a lung cancer project at the Korean Bioinformatics Center, she earned her Ph.D. in Computational Biology from USC in 2019, focusing on causal markers using Genome-wide Association Studies, Machine Learning, Bayesian Networks, and simulations. She then joined the Feed the Future Innovation Lab at UC Davis, researching causal loci in chickpea plants. In 2020, she moved to J. Gladstone Institutes as a bioinformatician, working on multi-omics projects analyzing expression and mutation datasets with statistical and computational methods.

Session 3: KOLIS Research Talks - Selected from Abstracts

moderated by Yunkyeong Lee, KOLIS Treasure



Nakian kim born in Korea and moved to Qingdao, China, for high school. After graduating, I went to the US and earned my BS in Ecology and Evolutionary Biology at Rice University in Houston, TX. I pursued my PhD in Crop Sciences with a focus on soil microbiology and bioinformatics at the University of Illinois, Urbana-Champaign. Following that, I completed a post-doc at the same institution as part of the ARPA-E SMARTFARM project, where I collected agronomic and environmental data for machine learning model and remote sensing technology development. Currently, I am undertaking my second post-doc at UC Berkeley and Lawrence Berkeley Laboratory, researching the metabolomics of microalgae. My research aims to contribute to sustainable agriculture and combat climate change."

Dr. Seongyeol Park, MD, PhD, is a postdoctoral researcher at the Stanford Cancer Institute, focusing on understanding cancer evolution and developing predictive models. He earned his MD from Seoul National University and completed internal medicine training at Seoul National University Hospital. His PhD in genomics from KAIST was motivated by clinical experiences with cancer patients. Dr. Park's research, highlighted by a 2019 Cell publication on early cancer-causing DNA alterations and a 2021 Nature study on somatic mutation-based lineage tracing in embryogenesis, has garnered acclaim, including the Doosan Yonkang Academic Award (2022) and Agarwal Awards (2019, 2022). Formerly CTO at Inocras Korea Inc., he now investigates cancer evolution within the microenvironment using multiomics data.



Dr. Eunyoung Park, Ph.D., earned her degree in Agricultural Biotechnology from Seoul National University, specializing in mass-spectrometry-based 'omic' approaches. Her doctoral research focused on metabolites, proteins, and environmental toxins, assessing their effects on organisms like zebrafish. Currently a postdoctoral researcher at the University of California, Davis, in Food Science and Technology, Dr. Park investigates the impact of maternal pesticide exposure on neurodevelopmental disorders such as autism. Her work aims to identify crucial exposure thresholds that could affect brain development or increase susceptibility to neurodegenerative conditions.

Session 4: Career Development

moderated by Heejae Ko, KOLIS Public Relations



Oh Kyu Yoon, PhD, MBA, serves as Director and Head of Oncology, Clinical Bioinformatics & Exploratory Analytics at Gilead Sciences, overseeing biomarker analytics and bioinformatics for Oncology clinical trials. Previously at Amgen Inc., he led computational biology efforts using NGS techniques for drug discovery and safety evaluation, and co-led the Center of Excellence for Single Cell Genomics. Dr. Yoon earned his PhD in Chemistry and MS in Electrical Engineering from Stanford University, focusing on innovative mass spectrometry techniques. His postdoctoral research at UC Berkeley explored natural genetic variation's impact on gene regulation and pioneered the development of 3'-end RNA-seq methods. He serves as President of the San Francisco chapter of KASBP and advises Brandeis University's Bioinformatics MS program.

YongKeun (Paul) Park, Ph.D., is a Professor of Physics at KAIST, holding a Ph.D. in Medical Science and Medical Engineering from Harvard-MIT Health Science and Technology. His research spans optics, holography, and biophysics, resulting in over 200 peer-reviewed papers with more than 17,000 citations, including notable publications in top journals like Nature Photonics, Nature Materials, and Proceedings of the National Academy of Sciences (PNAS). Dr. Park is a Fellow of the Optical Society of America (OSA) and the Society of Photo-Optical Instrumentation Engineers (SPIE). Recognized with Medals of Honor in Science and Technology from the President of South Korea, he also received the Jinki Hong Creative Award. His innovative research has led to the creation of two successful start-up companies, Tomocube and The.Wave.Talk, collectively employing over 80 individuals. For more details on Prof. Park's research, visit his website: http://bmol.kaist.ac.kr.

Dr. Tom Oh has been a Professor at the Golisano College of Computing and Information Sciences (GCCIS) and Strategic Initiatives and Innovation at the National Technical Institute for the Deaf (NTID) at Rochester Institute of Technology (RIT) since 2008. He is the president-elect of the Korean American Scientists and Engineers Association and chair of the US-Korea Conference 2024. Dr. Oh's research spans Vehicular Area Networks, Mobile Device Security, Machine Learning, IoT Security, Sensor Networks, Human-Computer Interaction (HCI), and Assistive Technology. He has secured funding from NSF, ONR, ETRI, DoD, and others, with over 200 publications and numerous media appearances. With over 18 years in networking and telecommunications, Dr. Oh previously held roles at Rockwell Collins, Ceterus Networks, Ericsson, Nortel Networks, and Raytheon, earning patents and awards such as the 2021 KIAT Appreciation Award and 2018 Sponsor Innovation Award. He holds a BS from Texas Tech University and MS and PhD degrees from Southern Methodist University.

2024 AI-ABIO SYMPOSIRUM

Session 5: Korea Academic Job Fair & Pitchtalk by KOLIS

moderated by Siyeon Rhee, K-BioX

2024 AI-ABIO SYMPOSIRUM



Dr. Siyeon Rhee is an instructor at Stanford University School of Medicine, focusing on single-cell RNA sequencing, spatial transcriptomics, human iPSCs, and congenital heart disease modeling. He has published 24 articles and is currently researching heart disease mechanisms and heart failure using multi-omics and advanced heart organoids. Dr. Rhee completed his Ph.D. in Developmental Biology at the University of Massachusetts Amherst and has extensive research experience in cardiovascular development, stem cell disease modeling, and drug discovery for heart and organ fibrosis. He is actively involved in academic leadership and grant writing. He founded "K-BioX", a non-profit organization to foster academic collaboration and networking among Korean-Scientists in the world. Currently, K-BioX holds more than 10,000 members and actively participates in scholarly events.

Participating Institutions for Korea Academic Job Fair











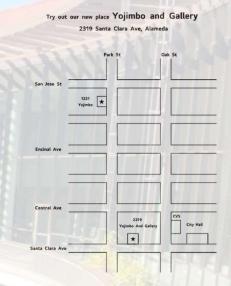


Catering

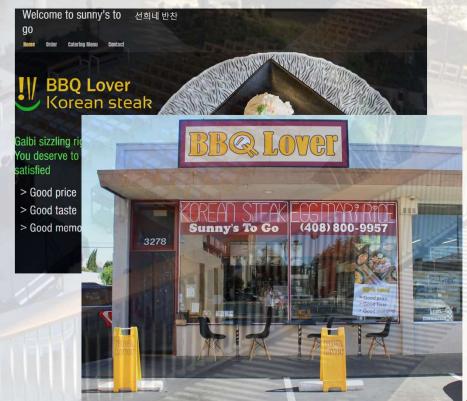
by Cho HyunMin, KOLIS Vice President (Academia)



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DONG-AST





CURIOSIS



























SNU MEDICINE

Organizing Committee



Rhee Siyeon, PhD K-Bio X President | Stanford



James Jahng, PhD KOLIS President | Stanford



Soohyun Kim, PhD
KOLIS Vice President | Stanford



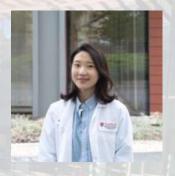
Hyunmin Cho, PhD
KOLIS Vice President | Stanford



Yunkyeong Lee, PhD
KOLIS Treasurer | Stanford



Jeehyun Yoe, PhD
KOLIS Planning Director | Stanford



Hee Jae Ko, PhD
KOLIS Public Relations | Stanford



Jaeyoung Jung, PhD
KOLIS Advisor | UCSF



Jeehee Lee, PhD School Rep | Stanford



Hyehyun Kim, BSc School Rep | UC Davis



Kibeom Hong, PhD School Rep | UCSF



Juliana Lee, BSc School Rep | UC Berkeley



Yuna Lee K-Bio X Operating Committee



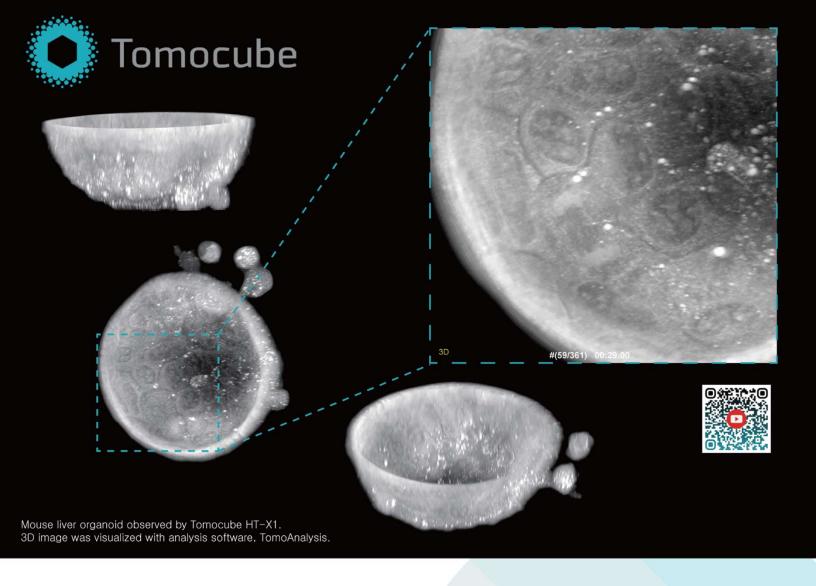
Yoonjung Woo, BScK-Bio X Operating Committee



Soobeen Moon, BSc K-Bio X Operating Committee



Hyejin Kim, PhDK-Bio X Operating Committee



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자격 요건 및 업무내용

- Ph.D. degree in pharmacology, biology, molecular biology, medicinal-chemistry, or related field
- 10+ years of experience (including at least 5+ years in Immuno-oncology, cancer biology, or antibody therapeutics, with a preference for those with ADC experience) in a drug discovery setting within biotech or large pharma, or relevant industry experience in a biopharmaceutical setting with extensive experience from target validation to IND-enabling studies.
- Demonstrated application of expertise to drug discovery in multiple therapeutic areas, including immuno-oncology
- Deep understanding of preclinical PK/PD/efficacy relationships and their translation to the clinic
- Strong leadership, interpersonal and communication skills with an enthusiasm for participating in a fast-paced environment characterized by rigorous science and innovative thinking
- A team player and mentor, who listens effectively and invites response and discussion. A collaborator who communicates in an open, clear, complete, timely and consistent manner

우대사항

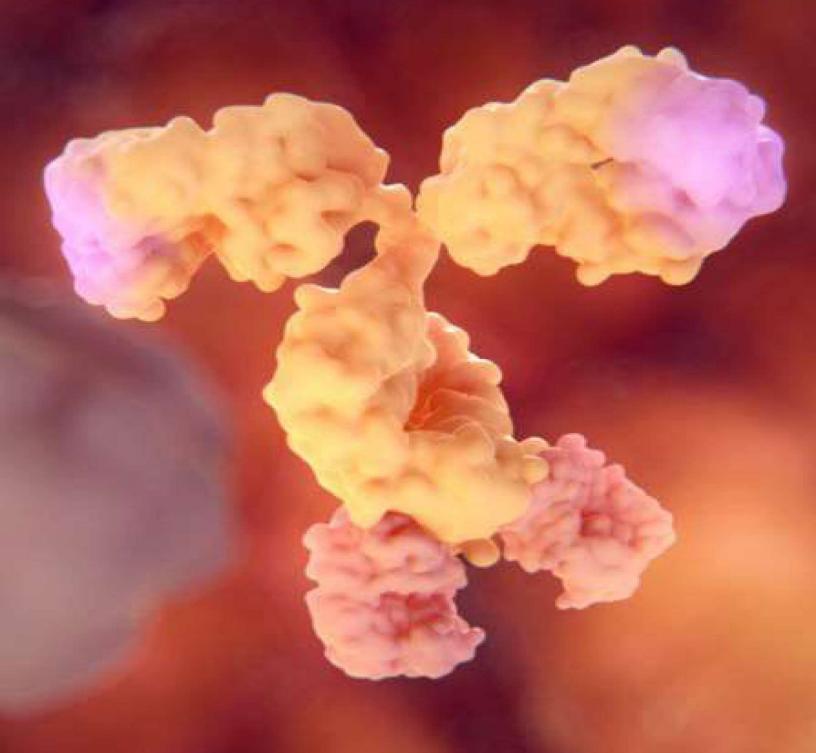
- 채용시 한국으로의 이사비 및 사택 등 일체 제공
- 자녀 학자금 지원
- 장기근속/우수성과 스톡옵션 제도 운영, 국내 최고수준의 기술이전 포상제도 운영 중
- 국내·외 학회참석, 온라인 교육, 자격증 취득 등 교육훈련비 지원
- 조·중·석식 무상제공
- 경조사비 제공, 종합건강검진(본인 및 가족), 장기근속 포상, 법인콘도 이용 등

지원방법

■ 이메일 지원(상시): pearl@ligachembio.com

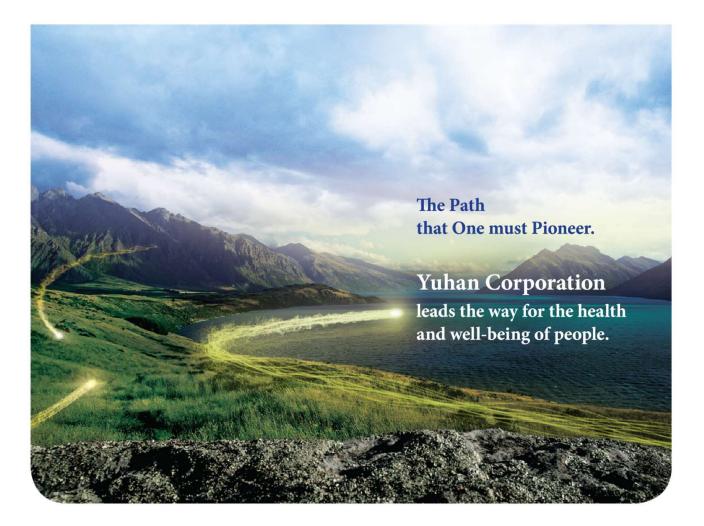


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and by enabling healthiness and happiness for all the people in the world.

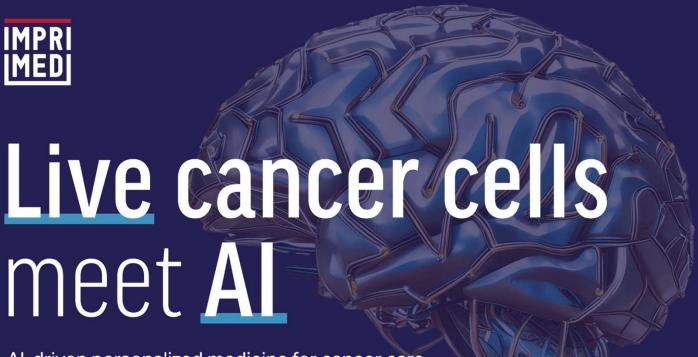
In the next 100 years, Yuhan Corporation will follow the noble spirit of our founder, Dr. New Ilhan, and write the history of challenge and development moving forward.

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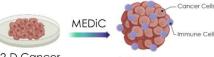
330 Seongam-ro, Sangam-dong (DMC Hi-tech Business Center Suite B417 & 418) Mapo-qu, Seoul 03920, Republic of Korea

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MEDIC Life Sciences KOLIS '24 Intro

About MEDIC

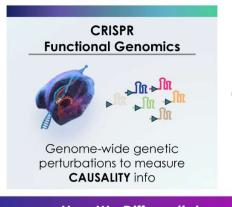
- Founded in 2020 as a Stanford/SPARK spinoff
- Raised \$7.85M in Seed backed by Illumina Accelerator in its 1st Global Cycle
- Published platform POC in Nature in 2020
- 2 active collaborations with major US pharmaceutical companies, including BMS
- Identified novel gene targets that are causal to the disease for HCC and TNBC



2-D Cancer

3-D Cancer

What We Do & How We Do It (MCAT™ Platform)





Most Translatable Causality Info for Target/Biomarker **Discovery**

Comprehensive **Causality Metrics for**

- 3-D growth
- Immune resistance
- Drug resistance
- And many others

How We Differentiate

	MEDIC	depmap	TANGO therapeutics	TEMPUS	Insilico Medicine
Attributes	3-D Cancer	2-D Cancer	<i>In vivo</i> Mouse	Patient data	Al Omics
Scalability	~	~	×	~	~
Causality	~	×	~	×	×
MIMIC the TM	IE 🗸	×	~	~	×
Address Heterogeneit	y ~	~	×	~	×
Synthetic leth Biomarker	al 🗸	×	×	×	×

Target ID Case Study

Compare

sogenic pairs

to measure

Synthetic

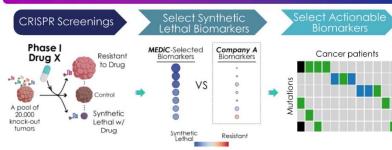
Lethality (SL)

Platform Proof of Concept

10 Most Significant Driver Mutations in NSCLC patients



Biomarker Discovery Case Study



6 Isogenic pairs

Gene Y

Generate Gene Y

Isogenic Pairs

Wild Type

Knock-Out

In In In

CRISPR Library

- · 24 Genome-wide screens
- 240K gene interactions measured for Gene Y
- 10+ synthetic lethal targets identified for Gene Y

3D Growth (wild type)

- 10 TNBC cell lines
- 40 Genome-wide screens
- · 800K Gene-Drug interaction data
- 30+ PARP-BRCA like synthetic lethal biomarkers
- · 15+ Actionable biomarkers: frequent & testable mutations in patients

Our Expanding Pipeline and Collaborations

MEDIC Pipelines								
Assets	Indications	Target Discovery	Hit Discovery	Hit to Lead				
MEDIC-01	Multiple Indications							
MEDIC-02	Hepatocellular Carcinoma							
MEDIC-05	NSCLC							

Strateaic Partnerships **Target Selection** Deliverables Indications / Drug Tested **Proof of Concept** Target ID Novel Targets Gene-Y Driven Cancer Preclinical Antibody Drug **Biomarkers** Phase I Small Molecule Drug

Cho & Kim, PC U.S. Immigration Law Firm

조 & 김 이민 전문 로펌

미국 실리콘 밸리 비<mark>지니</mark>스 이민 전문 로펌

미국 캘리포니아주 실리콘밸리에 위치한 법무법인 조 & 김은 미국 진<mark>출을</mark> 희망하는 스타트업 기업체들과 가족들을 위한 비지니스 이민전문 로펌입니다.

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법무법인 조&김을 선택하실 이유



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LICENSES & CERTIFICATIONS

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INVOLVEMENT & RECOGNITION

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LICENSES & CERTIFICATIONS

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