



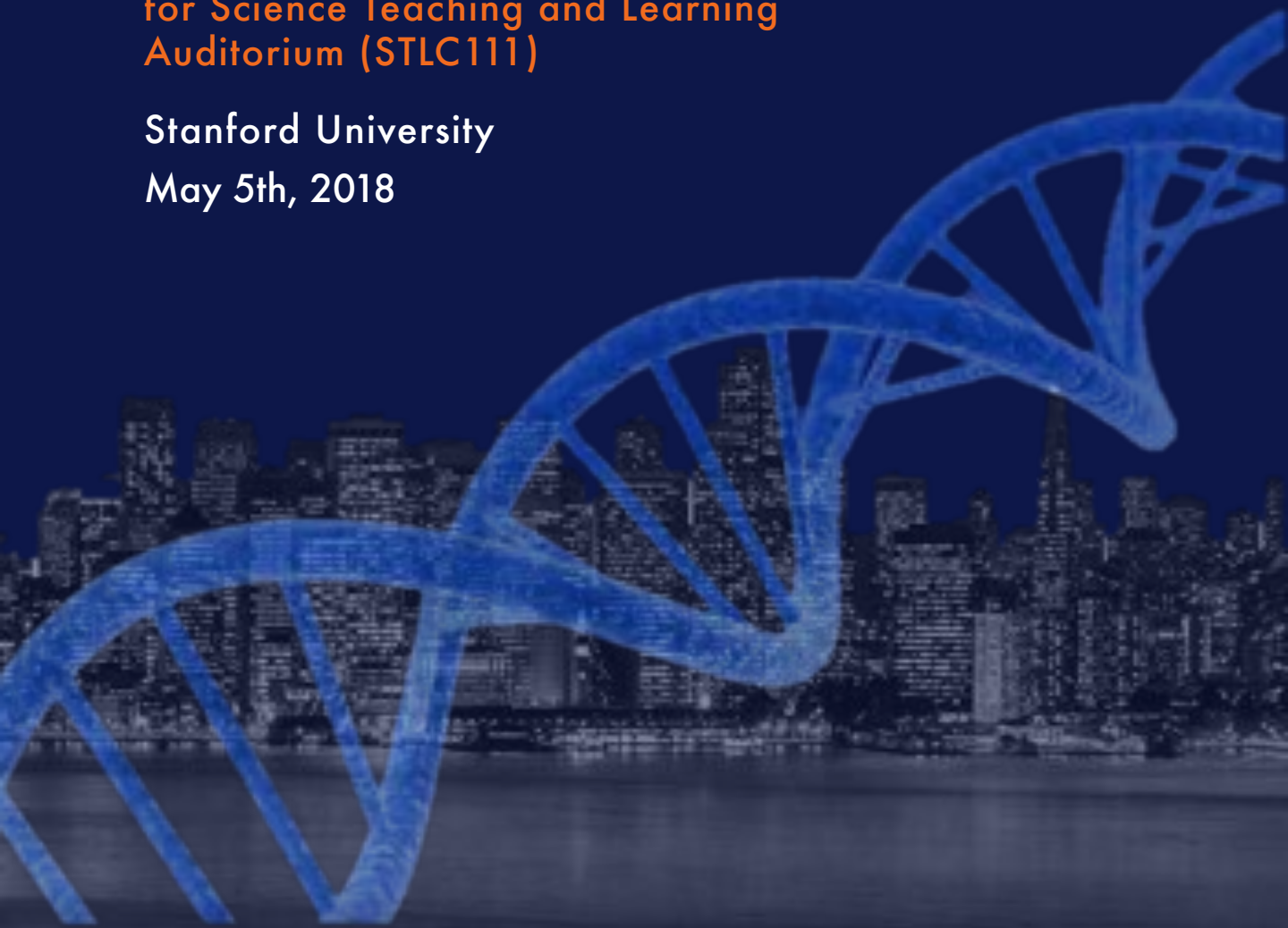
KOREAN
LIFE SCIENTISTS
IN THE BAY AREA

STANFORD | UC BERKELEY | UC DAVIS | UCSF

2018 Spring Conference

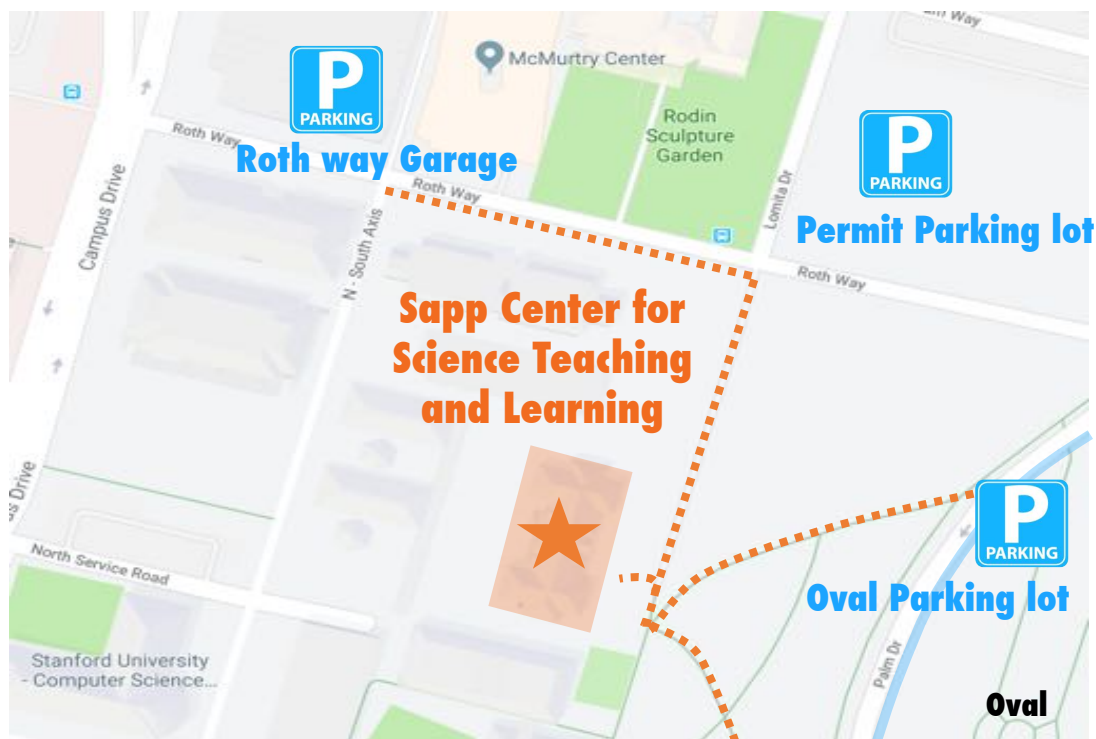
Sapp Center
for Science Teaching and Learning
Auditorium (STLC111)

Stanford University
May 5th, 2018



KOLIS 2018 Spring Conference

Sapp Center for Science Teaching and Learning Auditorium
Stanford University | May 5th, 2018 |



Sapp center for Science Teaching and Learning

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(650) 723-2501

<https://goo.gl/maps/cH5zWtgoePQ2>

(link to the main entrance of the building)

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KOLIS

KOREAN LIFE SCIENTISTS IN THE BAY AREA
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Greeting from the KOLIS chair

Welcome to Stanford Campus
and the 2018 KOLIS Spring Conference!

따뜻한 5월의 봄날, 스탠포드 캠퍼스로 콜리스 여러분을 초대합니다. 현재까지 100명 가까이 되는 많은 분들께서 총회에 관심을 표해주시고 참여 신청을 해주셔서 총회를 기획하는 임원진의 일원으로서 이번 콜리스 봄 총회가 매우 기대됩니다.

이번 봄총회의 темa는 <<Beyond the Lab: Start Mapping Your Career Path>>입니다. 5월 5일 하루만큼은 연구실에서 벗어나 다양한 학과, 연구, 커리어 레벨에 계신 분들과 만나셔서 아이디어 및 정보를 공유하시고, 더 나아가 다음 커리어 스텝으로 나아갈 때 도움을 얻는 중요한 네트워크의 기회로 삼으셨으면 좋겠습니다.

이러한 Career Development에 관한 논의를 복돋아주시고 멘토링을 해주실 각 계에 계신 대표 연사님들을 모셨습니다. UCSF 전영욱 교수님, 한양대학교 김태욱 교수님, Impossible Foods 박보라 박사님, Surrozen 이성진 박사님의 세미나를 통해 '한국/미국 Academia hiring process 및 funding situation 차이, how to make a transition from academia to industry' 등의 평소 가지고 계셨던 궁금증을 함께 토론할 수 있는 기회가 되었으면 좋겠습니다.

이와 더불어 최근 권위있는 학술 저널에 실린 연구 성과를 내신 세 분의 연사님을 초청하였습니다. Patient-specific iPSC를 이용한 disease modeling을 주제로 Stanford 이재철 박사님, Nuclear pore complex 구조와 기능에 대해서 UCSF 김승중 박사님, Autophagy regulation mechanism에 대해 UC Berkeley 신희재 박사님께서 재밌는 세미나를 해주실 예정입니다. 학문적 갈등도 해소하시고 연구 비하인드 스토리도 들을 수 있는 시간이 될 것 같습니다.

참석자 RSVP 리스트를 보면 생명 과학 관련 연구 분야에 종사하시는 다양한 background의 연구자분들이 오십니다. 이렇게 다양한 research interests를 가지신 콜리스 여러분의 네트워킹을 돕기 위해 Lightning Talk Session 및 와인/맥주가 있는 해피아워 네트워킹 세션도 준비하였습니다. 다음 세션들을 통해 콜리스 커뮤니티가 융합 학문적 기류에 발맞추어 더욱 다원화되길 기원합니다.

이번 봄총회를 진정으로 의미있고 유쾌한 기억으로 남게 만들 수 있는 가장 중요한 요소는 여러분의 열성과 참여입니다. 맛있는 음식과 새로운 학문적 발견을 즐기시고, 오래된 동료와 또다른 추억 쌓으시며, 새로운 인적 네트워크를 만드시는 의미 깊은 총회를 만들어주세요! 마지막으로 이 모든 것을 가능할 수 있도록 콜리스를 물질/심적으로 지원해주신 후원 기관/회사들께 감사의 말씀을 전합니다. 감사합니다.



2018 Kolis Chair
Soah Lee Ph.D.





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Stanford University | May 5th, 2018

Morning schedule

09:20 – 09:50 Registration

09:50 – 10:00 Welcoming Remarks

10:00 – 10:30 Career Development I: Industry in US

Dr. Bora Park, Impossible Foods
"Make the Impossible to possible"

10:30 – 11:00 Scientific Talk I: Autophagy

Dr. Hijai Regina Shin, Zoncu Lab, UC Berkeley
"AMPK-SKP2-CARM1 signaling cascade in epigenetic and transcriptional regulation of autophagy1"

11:00 – 11:30 Career Development II: Academia in Korea

Prof. Tae-Wuk Kim, Hanyang University
"The tail of a dragon and the head of a snake?"

11:30 – 11:45 Q&A Session with Speakers

11:45 – 12:00 Lightening Talk – Promote your research and yourself!

12:00 – 13:00 Lunch and Networking

13:00 – 13:10 Quiz & Raffle



KOLIS 2018 Spring Conference

Afternoon schedule

- 13:10 – 13:40 Career Development III: Industry in Korea
CJ Bio Research Center
- 13:40 – 14:10 Scientific Talk II: Nuclear Pore Complex

Dr. Seungjoong Kim, UCSF
"Integrative structure and functional anatomy of a nuclear pore complex (npc)"
- 14:10 – 14:40 Career Development IV: Academia in US
Prof. Youngwook Jun, UCSF
- 14:40 – 15:00 Q&A Session with Speakers
- 15:00 – 16:00 Networking Session: Wine & Beer
- 16:00 – 16:30 Scientific Talk III: Disease Modeling using patient-derived iPSC-CM

Dr. Jaecheol Lee, Stanford
"Dysregulation of PDGFRB contributes to the pathogenesis of Imna-related dilated cardiomyopathy"
- 16:30 – 17:00 Career Development VI: Startup in US

Dr. Sungjin Lee, Surrozen
"About the world's most important issue..."
- 17:00 – 17:20 Q&A Session with Speakers
- 17:20 – 17:30 KIST Biomedical Research Institute, Kihwan Choi, Stanford EE PhD
- 17:30 – 17:40 Korea Innovation Center Silicon Valley, Ryan Jung
- 17:40 – 18:00 Closing Remarks: Quiz & Raffle
- 18:00 – Dinner & Networking

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ABSTRACTS



Make the Impossible to possible

Dr. Bora Park
Impossible Foods



How can you start a career in a different field without “experience”? I knew it would be challenging to switch careers or transition fields from pharmaceutical to the food industry, with no real job experience. This uncharted territory will likely require skills that you’ve yet to develop. However, you can bridge the transition by opting for an opportunity that guarantees exposure and first-hand experience—and allows you to give back to the community and find purpose and meaning.

I will share some of my experiences how I changed my field, career path and what I’ve learned throughout my journey as well as how I feel working in a fast-growing start-up company.

AMPK-SKP2-CARM1 signaling cascade in epigenetic and transcriptional regulation of autophagy¹

Dr. Hijai Regina Shin
UC Berkeley



Autophagy is a highly conserved self-digestion process, essential to maintain homeostasis and viability. Besides operating as a quality control mechanism in steady-state conditions, autophagy is up-regulated in response to a variety of homeostatic perturbations, especially in response to nutrient starvation. Failure to properly execute the autophagic program has been associated with many human pathologies including neurodegenerative disorders, auto-immune conditions and cancer. Although the core components of autophagy in the cytoplasm have been well studied, little has been known about the fine-tuning mechanism of autophagy through epigenetic regulations.

Here, we identified the histone arginine methyltransferase CARM1 as a new component and followed histone H3R17 dimethylation as a critical epigenetic mark in starvation-induced autophagy. Upon nutrient starvation, CARM1 is stabilized in the nucleus, whereas it is constantly degraded under nutrient-rich conditions by the SKP2-containing SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase. We further showed that nutrient starvation induces the proteins levels and activity of AMPK in the nucleus. Activated AMPK then phosphorylates FOXO3, leading to SKP2 downregulation and increased CARM1 protein levels in the nucleus. Stabilized CARM1 in turn functions as an essential co-activator of TFEB and regulates the expression of autophagy and lysosomal genes. Our findings provide a conceptual advance that activation of specific epigenetic programs is indispensable for a sustained autophagic response, and shed light on a potential therapeutic targeting of the newly identified AMPK-SKP2-CARM1 signaling axis in autophagy-related diseases.

The tail of a dragon and the head of a snake?

Prof. Tae-Wuk Kim
Hanyang Univ.



As an old member who actively participated in KOLIS activities, I am going to briefly introduce academia position of Korea. The process of recruiting differs from university to university but there exist common procedures. Based on my experience of the last 7 years after appointment of professor, I will summarize overall recruitment process of faculty position and future prospect. In addition, I would like to talk about the advantages and disadvantages of research in Korea and the status of research funding. I hope that my presentation will be able to help you to apply a faculty position in Korea.

Integrative Structure and Functional Anatomy of a Nuclear Pore Complex (NPC)

Dr. Seung Joong Kim
UC San Francisco



Despite the central role of Nuclear Pore Complexes (NPCs) as gatekeepers of RNA and protein transport between the cytoplasm and nucleoplasm, their large size and dynamic nature have impeded a full structural and functional elucidation. Here, we have determined a subnanometer precision structure for the entire 552-protein yeast NPC by satisfying diverse data including stoichiometry, a cryo-electron tomography map, chemical cross-links, and small angle X-ray scattering (Figure 1) [1-3]. The structure reveals the NPC's functional elements in unprecedented detail (Figure 2). The NPC is built of sturdy diagonal columns to which are attached connector cables, imbuing both strength and flexibility, while tying together all other elements of the NPC, including membrane-interacting regions and RNA processing platforms. Inwardly-directed anchors create a high density of transport factor-docking Phe-Gly repeats in the central channel, organized in distinct functional units. Taken together, this integrative structure allows us to rationalize the architecture, transport mechanism, and evolutionary origins of the NPC.

Not(ch) Where It Should Be?: Dynamic phase separation and colocalization of membrane proteins choreographs biochemical reaction sequences

Prof. Youngwook Jun
UC San Francisco



Cell signaling is orchestrated by cooperative actions of multiple nanoscale biomolecular machines. These processes are highly dynamic in space and time, and aberrant spatiotemporal dynamics of cell signaling results in developmental defects and diseases. How cells choreograph these signaling sequences in space and time to regulate cell functions and fates is of a central question in biology. To interrogate spatiotemporal regulation of cell signaling, my lab has been developing various nanotechnology tools to image and manipulate cell signaling in space and time with single-cell and molecule resolution. In this talk, I will specifically focus on spatiotemporal dynamics of Notch, a key cell communication receptor, and its signaling consequences in cells. By integrating cutting-edge technologies including mechanogenetics (i.e. targeted control of genetically encoded mechanosignaling), super-resolution microscopy, and single particle tracking, we mapped dynamic spatial distributions of Notch receptors during the cell surface activation. We found that Notch receptors initially separated from the mechanically and enzymatically (γ -secretase) active cadherin-junction. When first proteolytic cleavage of the Notch extracellular domain was triggered by mechanical force, these receptors undergoes changes in subcellular localization, leading to the localization to cadherin-mediated adherens junction that promoted subsequent downstream signaling outputs. Based on our experimental results, we propose a new cell surface activation mechanism of Notch receptors, demonstrating that dynamic phase separation and colocalization of Notch creates enzymatically distinct environments that facilitate sequential proteolysis of Notch and hence controlled signaling.

Dysregulation Of PDGFRB Contributes To The Pathogenesis Of LMNA-Related Dilated Cardiomyopathy

Dr. Jaecheol Lee
Stanford University



LMNA-related dilated cardiomyopathy (LMNA-DCM) is an autosomal dominant disorder caused by mutations in the gene encoding Lamin A/C (LMNA), an intermediate filament protein which constitutes the major component of the nuclear envelope. LMNA-DCM accounts for 5-10% of DCM cases and has an age-related penetrance whose onset typically appears between the ages of 30 and 40. In contrast to most other forms of familial DCM, sudden cardiac death may be the first manifestation of LMNA-DCM even when there has been minimal or no systolic dysfunction, due to malignant arrhythmias such as ventricular tachycardia and fibrillation. However, the precise mechanisms linking the LMNA mutation to increased arrhythmogenicity are still unknown. Here, we successfully recapitulate arrhythmias of LMNA-DCM using induced pluripotent stem cell-derived cardiomyocytes (iPSC-CMs). The electrophysiological studies of iPSC-CMs identify the LMNA mutation as a cause of increased arrhythmogenicity in mutant iPSC-CMs through abnormal calcium homeostasis. We find that the mutations in LMNA disrupt the global chromatin conformation, resulting in hyper-activation of the platelet-derived growth factor (PDGF) signaling pathway in LMNA-mutant iPSC-CMs. Inhibition of the PDGF signaling pathway can rescue the arrhythmic phenotype of mutant iPSC-CMs. These findings were corroborated in cardiac tissues from healthy and LMNA-DCM patients, thus confirming a novel mechanism of LMNA-DCM pathogenesis both in vitro and in vivo.

About the world's most important issue...

Dr. Sungjin Lee
Surrozen



With a lot of capital and specialized technology, biopharma has been making great results. However, due to the nature of industry, the research results are tried to be hidden until a certain period of time, which makes, unlike Academia, the results not revealed to the public. Especially in recent years, the biopharma's workforce is rapidly becoming highly educated and well-trained, and the pace of growth is accelerating.

A lot of people are applying to biopharma for their next career. Particularly, here in Silicon Valley, there are a lot of applications from job seekers who are not only across the United States but also around the world, which expand a human resource pool. Although the US economy is getting better and job openings are increasing recently, there is still much more demand than supply. In addition, the industry often requires previous company experience in recruiting. This makes the job seekers in academia feel difficult to move to the industry. There are also a number of things to consider when moving for the next career, especially for foreigners like us, including visa issues, referrer issues, and so on.

I would like to share my recent experience of career transition from academia to industry, and hiring experience in my current position. I hope that it helps those who are preparing the next path for the industry career.



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"We greened the high-brain"



BIONEER

GREAT SPACE HOLDS GREAT THOUGHTS

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미래를 위한 핵심 R&D 역량이 모인 통합연구소

CJ Blossom Park는 CJ 핵심 R&D 분야인 소재, 생물의학, 바이오, 식품영역을 통합하여 설립 되었습니다. R&D 분야에 있어 CJ의 성장을 지속하게 할 Brain Hub로서, 유사 사업군 간 강력한 시너지를 이끌어내며 지금까지 볼 수 없었던 ONLYONE 정신을 실현하고 있습니다. 최고的人才과 Global Top Class의 R&D 인재, 혁신적 기술력을 바탕으로 ONLYONE Technology 기반의 혁신제품 개발을 통해 세상에 없던 새로운 창조하는 공간을 열어서, 그 시작점에 CJ Blossom Park가 있습니다.

2018년 CJ제일제당 BIO연구소 해외 박사신입 / 경력 연구원 모집



지원 자격

- 지원분야별 상세 직무와 전공/경력이 부합하는 자
- 해외여행에 결격사유가 없는 자
- 남자의 경우, 병역 필 또는 면제자

모집 전형

- 일반 채용 | 해외 학위 소지(예정)자로, 2018년 내 입사가 가능한 자

신입	경력
해외 정규대학 석사 또는 박사학위 보유자 또는 취득예정자 ('18년 내)	해외 정규대학 Post Doc 또는 석/박사 학위 취득 후 경력 보유자

- GTS 채용 | 해외 학위 소지(예정)자로, 2019~2020년 내 입사가 가능한 자

신입	경력
해외 정규대학 박사학위 취득예정자	비대상

■ ABOUT GLOBAL TALENT SPONSORSHIP (GTS) 채용

대상 | 2019~2020년 내 졸업이 가능하고 졸업과 동시에 입사가 가능한 자

특전 | 졸업 시 까지 장학금 지급 (최대 2년), 현지 리크루팅 행사 초청, 한국 CJ Blossom Park 초청

모집 분야

모집 부문	상세 분야		비고
BIO	정제	분석	미생물학, 발효공학, 분자생물학, 생명공학, 생물학, 생물화학공학, 생화학, 유전공학, 화학, 효소공학, Metabolomics, 원예학, 농학 및 관련 전공 우대
	균주개발	화학공정	
	발효공정	BIOMASS	
	OMICS	효소	
생물자원	제품/기술개발	분석	동물영양학, 미생물학, 수의학, 천연물, 축산학, 해양수산학 및 관련 전공 우대

전형 절차 및 지원방법



- 지원서 제출시 개별 채용 검토 및 Process가 시작되며, 합격자에 한하여 이후 일정 별도 공지 드립니다.
- 각 단계별 결과는 등록된 이메일을 통해 공지됩니다.
- 최종합격 후 별도의 처우 및 입사일자 협의가 진행됩니다.
- **지원을 원하시는 분은 CV 를 haesoo.park@cj.net으로 한국 기준 4/20(금) 자정까지 제출 부탁드립니다.**

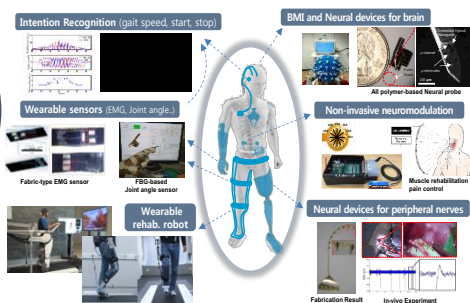
현지 채용 설명회 및 1:1 RECRUITING 상담

- 진행 일정 | 2018년 5월 5일 KOLIS 봄 총회時
- 진행 내용 | CJ회사 소개 및 BIO 연구분야 소개, CJ Blossom Park 홍보
1:1 리크루팅 상담 (RSVP통한 신청 및 일정 예약)
- 참여 방법 | **사전 참석 인원 파악을 위해 한국 기준 4/25(수)까지 RSVP 통한 사전 신청 부탁드립니다.**
RSVP 링크 ▶ <https://goo.gl/forms/BI9KoFaXajXFTU2U2>

※ 장소 및 상세 시간은 추후 개별 안내드릴 예정이며, 1:1 Recruiting상담은 시간 제약 상 선착순 마감될 수 있습니다.
금번 행사에 참석이 어렵더라도 CJ제일제당에 관심 있으신 분들은 연락처 남겨주시면 채용 정보 지속 공유 드리겠습니다.

문의처: BIO인사지원실 박해수 haesoo.park@cj.net / BIO인사지원실 김윤정 yoonjung.kim@cj.net

**Center for
Bionics**

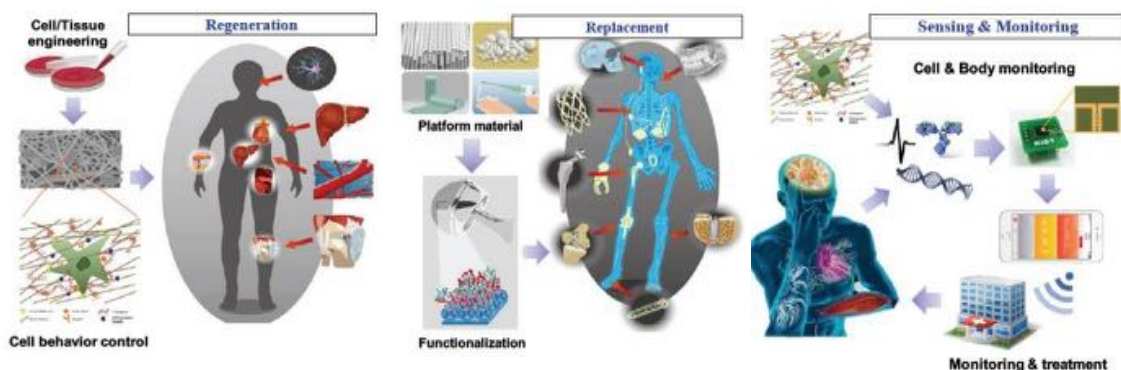


Based on bio-interface, we develop new rehabilitation technologies to improve the quality of life of the elderly and the disabled.

We aim to develop computer-assisted surgical systems and medical care systems by integrating cutting-edge information technologies.



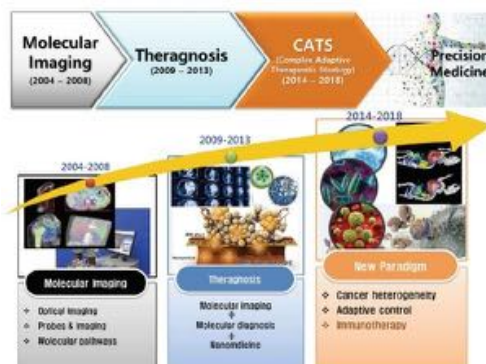
We use creativity and teamwork to develop advanced biomaterials in support of national agendas pertaining to public health and the life sciences.



**Center for
Biomaterials**

We will continue to make lasting contributions to the field, emerge as a leader in nanotechnology-based molecular imaging technologies and drug delivery systems, and ultimately spark a paradigm shift in the diagnosing and treatment of “incurable” diseases.

**Center for
Theragnosis**



The KIST BRI develops **revolutionary** technologies for **unmet biomedical needs** to improve quality of life and reduce healthcare costs in a super-aging society.

GC녹십자 해외 채용

건강산업의 글로벌 리더, GC녹십자의 새로운 꿈입니다!

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모집회사	근무지역	지원분야	업무내용	자격요건
GC녹십자	용인	사업개발 (Business Intelligence/ Open Innovation)	<ul style="list-style-type: none"> · Analysis of a new business/investment opportunity and establishment of business strategies · Portfolio Optimization and market research · Exploring R&D collaboration opportunities · Early staged research pipeline licensing 	<ul style="list-style-type: none"> · 학위: 석사 이상 · 전공: 바이오 및 제약 분야 관련 전공자 · 우대사항: 여학 우수자, 전략기획/시장분석/사업개발/Licensing 등의 관련 업무 유경험자
GC녹십자 종합연구소 /독암연구소		Vaccine, Immunology, Oncology, Rare disease, Bleeding Disorder/ 공정개발 (배양/정제) 제제, 분석	<ul style="list-style-type: none"> · 백신, 면역/항암/희귀질환/출혈성 질환 치료제 개발 · 제제 및 device 연구 개발 · 바이오 의약품 제제 비임상 효력/독성 시험 · 분석법(MS 등 기기 분석, cell based assay, 역가) 개발 · 미생물/동물세포 배양공정 개발 · 단백질 정제공정 개발 · 생산 공정 scale-up 및 기술이전 	<ul style="list-style-type: none"> · 학위: 박사 이상 · 전공: 바이오 및 제약 분야 관련 (면역학, 생화학, 화학공학, 분석화학 등) 전공자 · 우대사항: 여학 우수자, 바이오텍 종사자
GC녹십자		해외사업본부 (Business Development)	<ul style="list-style-type: none"> · 해외 신규 수출 시장 발굴 · Market Research in Vaccine, Immunodeficiency, Autoimmune Diseases, and Hemophilia · Management in Technology Transfer Project 	<ul style="list-style-type: none"> · MD/PhD with the strong background in the specific disease (예: MPS, Hemophilia, Vaccine) · Extensive experience in the design, conduct, analysis, and reporting of clinical studies · Interactions with key opinion leaders and investigators · Communication between medical staff and government body · Experience of new drug development with Academia (hospital)/Industry relationship · Education of internal staff with the policy and scientific information in the medical areas · Strong communication skills (interpersonal, influencing, presentation, and written and verbal)
GC녹십자 랩셀		Business Dev. Regulatory Affair Clinical study	<ul style="list-style-type: none"> · Analysis of a new business/investment opportunity and establishment of business strategies · Portfolio Optimization and market research · Exploring R&D collaboration opportunities · Early staged research pipeline licensing · Development & operation of Clinical study · Medical and regulatory writings 	<ul style="list-style-type: none"> · 학위: 석사 이상 · 전공: 바이오 및 제약 분야 관련 전공자 · 우대사항: 여학 우수자, 전략기획/시장분석/사업개발/Licensing/임상연구 기획 및 관리/허가 등의 관련 업무 유경험자
GC녹십자 랩셀 세포치료연구소		Immunology, Oncology, Cell biology, Molecular biology, Virology 공정개발 (동물세포 배양) 분석	<ul style="list-style-type: none"> · 면역/항암/세포치료제 개발 · 면역세포 항암 기전 연구 · 바이오 의약품 비임상 효력/독성 시험 · 분석법(cell based assay, 역가) 개발 · 동물세포 배양공정 개발 · 생산 공정 scale-up 및 기술이전 	<ul style="list-style-type: none"> · 학위: 박사 이상 · 전공: 바이오 및 제약 분야 관련 (면역학, 세포생물학, 생화학, 화학공학, 분석화학 등) 전공자 · 우대사항: 여학 우수자, 바이오텍 종사자

● CV제출 : 각 단계 채용담당자(제출기한 5/15.화)

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KOLIS 2018 Spring Conference

Sapp Center for Science Teaching and Learning Auditorium
Stanford University | May 5th, 2018

09:20 – 09:50	Registration
09:50 – 10:00	Welcoming Remarks
10:00 – 10:30	Career Development I: Industry in US Dr. Bora Park, Impossible Foods
10:30 – 11:00	Scientific Talk I: Autophagy Dr. Hijai Regina Shin, Zoncu Lab, UC Berkeley
11:00 – 11:30	Career Development II: Academia in Korea Prof. Tae-Wuk Kim, Hanyang University
11:30 – 11:45	Q&A Session with Speakers
11:45 – 12:00	Lightening Talk – Promote your research and yourself!
12:00 – 13:00	Lunch and Networking
13:00 – 13:10	Quiz & Raffle
13:10 – 13:40	Career Development III: Industry in Korea CJ Bio Research Center
13:40 – 14:10	Scientific Talk II: Nuclear Pore Complex Dr. Seungjoong Kim, UCSF
14:10 – 14:40	Career Development IV: Academia in US Prof. Youngwook Jun, UCSF
14:40 – 15:00	Q&A Session with Speakers
15:00 – 16:00	Networking Session: Wine & Beer
16:00 – 16:30	Scientific Talk III: Disease Modeling using patient-derived iPSC-CM Dr. Jaecheol Lee, Stanford
16:30 – 17:00	Career Development VI: Startup in US Dr. Sungjin Lee, Surrozen
17:00 – 17:20	Q&A Session with Speakers
17:20 – 17:30	KIST Biomedical Research Institute, Kihwan Choi, Stanford EE PhD
17:30 – 17:40	Korea Innovation Center Silicon Valley, Ryan Jung
17:40 – 18:00	Closing Remarks: Quiz & Raffle
18:00 –	Dinner & Networking