

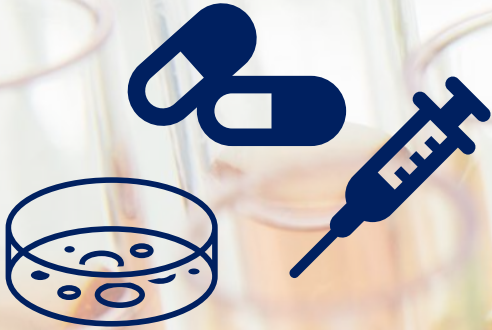


Building and revitalizing researchers' open innovation community in a science park

World Open Innovation Conference 2023 Nov 09, 2023

**Communications, iPark Institute Co., Ltd.
Haruka Hibino and Koki Nakagawa**

How to build and revitalize open innovation communities of life science field researchers in a science park?



Life Science



Researchers



Science Park



Shonan Health Innovation Park (Shonan iPark)



- **Pharmaceutical company-initiated** science park
- **Largest facilities in Japan**
- Welcoming companies and academia in **life science field**
- **> 2,000 people** from **>100 tenants**
- **Venture companies: 40%**
- **Researchers: 80%**





Barriers and needs in promoting open innovation in the life science field



Intellectual Property



Approval process



Resources



Goals and solutions are hard to be replaced



Individual ideas do not easily contribute to innovation



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Cutting-edge technologies are becoming more complex and developing at high speed
→ makes it difficult for one company (organization) to catch up



Our challenge and best practices



Our Challenge

How to **overcome the barriers against life science open innovation** and **revitalize researchers' open innovation communities** in our science park?



Our challenge and best practices



Our Challenge

How to **overcome the barriers against life science open innovation** and **revitalize researchers' open innovation communities** in our science park?



Our Tips



Systems



Opportunities



Coordination



Know-how



Psychological Safety



Encouraging Culture



Passionate People



Our challenge and best practices



Our Challenge

How to **overcome the barriers against life science open innovation** and **revitalize researchers' open innovation communities** in our science park?



Our Best Practices

Active and volunteer communities of researchers exchanging knowledge and ideas



Science Café



Science Mentor



Science Cafe

A community to share the latest knowledge and scientific views



Activities

- Sharing the latest scientific papers
- Scientific discussions



Members

>250 people from >30 companies (Started with only one researcher!)



Achievements

- Over **180 gatherings**
- **6 journals** (summarizing each presentation) published



Best Practice Secrets

- **Core members** managing the community are **very engaged and persistent**
- Discussions are based on "**published science**"
(No worry about intellectual property or confidentiality issues)



Passionate People



Psychological Safety



Science Mentor

An expert community to compensate knowledge and technologies



Activities

Nonconfidential and free scientific advice from mentors



Members

30 mentors in 15 expertise areas



Chemistry



Cell Biology



Animal Biology



Toxicology

...etc.



Achievements

100 mentoring sessions in 5 years since start



Best Practice Secrets

• Mentors recruited on a **voluntary basis**



Passionate People

• **Management support by science-trained staff**



Know-how

• Rules of **non-confidential communication**



Psychological Safety

• **Mutual stimulation:** Mentors are not only helping their mentees but also being stimulated



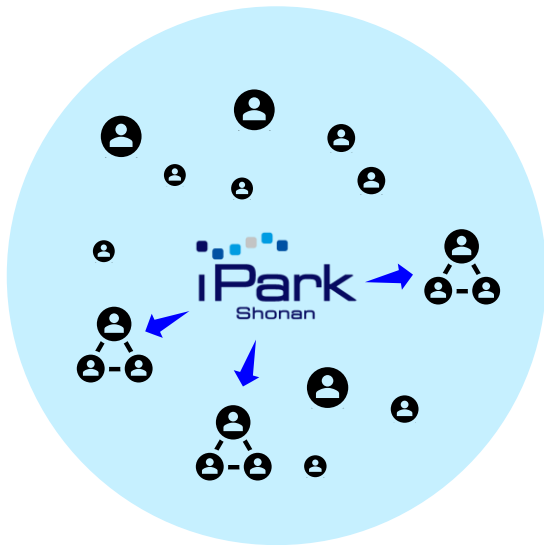
Opportunities



Ecosystem growth in the 5 years since opening of our science park

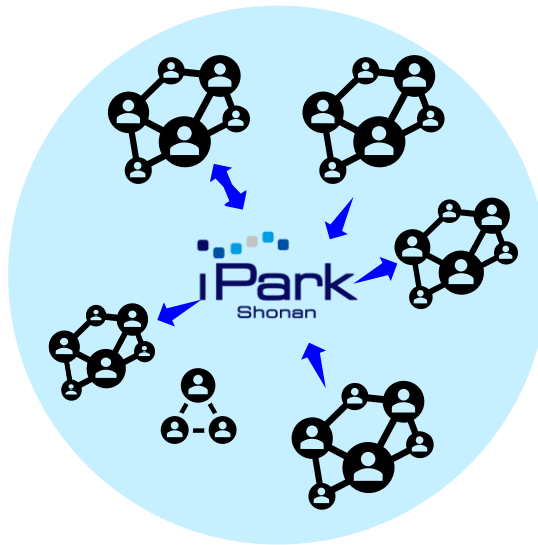


2018



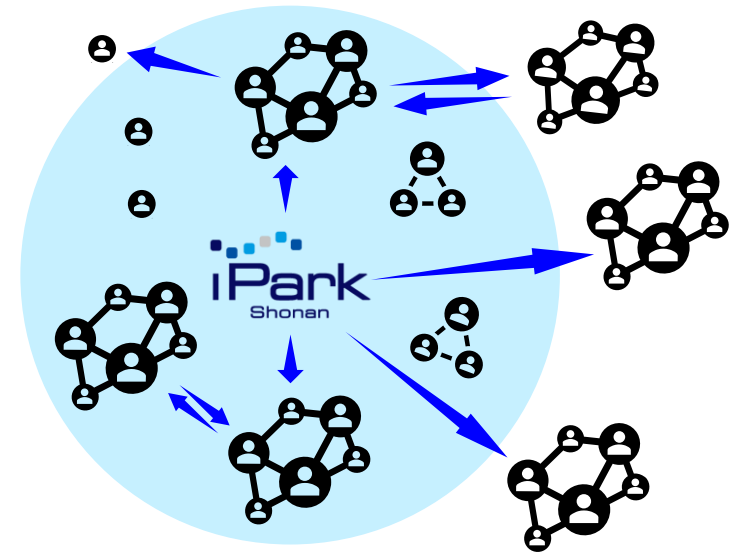
Only few **cross-company** communities

2019-2021



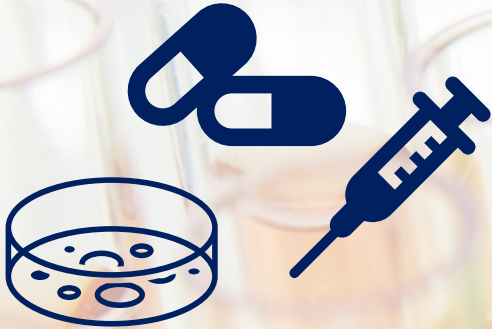
Several **cross-company** communities

2021-



A variety of **cross-company** and **cross-science park** communities

How to build and revitalize open innovation communities of life science field researchers in a science park?



Life Science



Researchers



Science Park

Understand researchers' needs and provide support and encouragement by designing systems and opportunities



<https://www.shonan-ipark.com/en/>



<https://www.linkedin.com/company/shonan-health-innovation-park/>

Appendix



Science park as one form of innovation hubs



Various Venues for Open Innovation



Characteristics of Science Parks

Value



Facility



Community

Actors



Researcher

Ecosystem



Proactively managed



Activities of tenants in Shonan iPark (FY2022)

Cross-company business collaborations* **>2,000** cases

Community Events **>200**

Number of residents participating in multi-company communities **>800** people

Academic papers published** **Approx. 100** papers

Fund raised by venture firms*** **Approx. ¥10B (approx. \$7M)**

***Extracted from the annual survey results of Resident and Member firms conducted in 2023 Spring, excluding duplicates*

***Papers authored by residents conducting research at Shonan iPark.*

****Total amount of publicly disclosed funding only.*

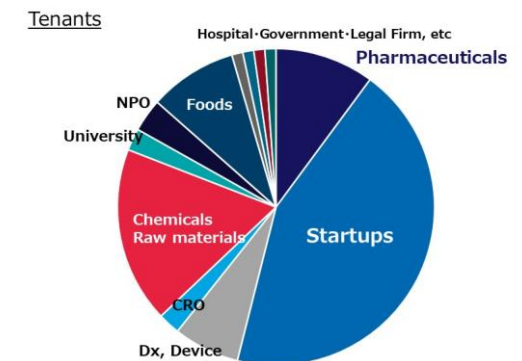


Attract diverse companies and organizations: > 100 tenants + 60 membership members



Pharmaceuticals							
Tenants	ASAHI Pharmaceutical Co., Ltd.	Hisamitsu	KAKEN	Kracie	Kyoriitsu Seiyaku	Life-Love LION	maruho
	SLIX	Takeda	Mitsubishi Tanabe Pharma	TORAY Innovation by Chemistry	Members	AstraZeneca	BIOMARIN
	CSL	Johnson-Johnson	NIPPON SHINYAKU CO. LTD.	NOVARTIS	stakata		
Drug Discovery							
Tenants	CARDURION PHARMA	Chordia Therapeutics	Curreto	Eurus Therapeutics	FIMECS	GEXVal	
	K Pharma	LTT Bio-Pharma	neopharma Japan	IAM	PRISM BIOLAB	RaQualia	SBI Biotech
	SCOHIA	Members	CHIOHE	CUPEAK	EM3	DATA-MORE	
	Insilico Medicine	Nara Medical University	OKAYAMA UNIVERSITY	pivotpark screeningcentre	UNITED IMMUNITY		
New Modality							
Tenants	ACTmed	Cell Pro Japan	GUARDANT	HIROTSU BIO SCIENCE	KIRIN		
	Noile-Immune Biotech	ORIZURU THERAPEUTICS	STAND THERAPEUTICS	7CIRA	Thyasa	Vetanic	YNU 横浜国立大学
Members	MIZ	Nexspirial	ORBIO				
Cellular Agriculture							
Tenants		Organic Farm					
Research and Development Support							
Tenants	ACEL	AIREX	ARCALIS	AsahiKASEI	ASAHI Pharmaceutical Co., Ltd.	AXCELEAD	セントラル研子
	Chroma Jean	ELIXIRGEN SCIENTIFIC	FUJIFILM	FUJIFILM	GenAhead Bio	Hiachi Plant Services Co., Ltd.	ID4
	IFoodMed.inc	ITM	JUZEN	KATAYAMA CHEMICAL	LSI Medience	MCPs	NIPPON FINE CHEMICAL CO. LTD.
	NIPPON SHOKUBAI	Osaka Chemical Co., Ltd.	POVONZ	RABICS	Rena Therapeutics	SEEDSUPPLY	SHIMADZU
	SCAS	TECHNOPRO R&D	T.N.TECHNOB	TORAY Toray Research Center, Inc.			SPERA PHARMA
Members	aiwell	AZENTA	CHIYODA CORPORATION	CROWN BIOSCIENCE	Fukuyama Pharmaceutical	GenScript	ICON
	IDT	CTR	BioLabs	Surprising Ceramics	NGK INSULATORS	NOF CORPORATION	T W I S T

Research Equipment / Medical Devices							
Tenants	EBARA	PALL	PHC	TERUMO			
Members	BRUKER		eppendorf	JEOL	NSK	SEKISUI	
AI /IoT/ Robotics							
Tenants	CIAN	RobiZy					
Members	株式会社ちゃんぷら	LPIXEL	NVIDIA				
Business Support							
Tenants	FORESIGHT & LINX	HEADLAND STRATEGY GROUP	ioma	Inner Resource	KISTEC	SONDERHOFF EINSEL	wellcle
Members	BioAid	PROGRIT	SUNFLARE				
Finance / VC							
Members	Share the Future	SMBC NIKKO	SMBC				
Administration							
Tenants	神奈川						
Trading Company							
Tenants	KikoTech	キタハマ	MH コーポレーション株式会社				
Members	Mitsubishi Corporation	MEDICAL HOLDINGS CORPORATION					





Science Mentor

An expert community to compensate knowledge and technologies



Activities

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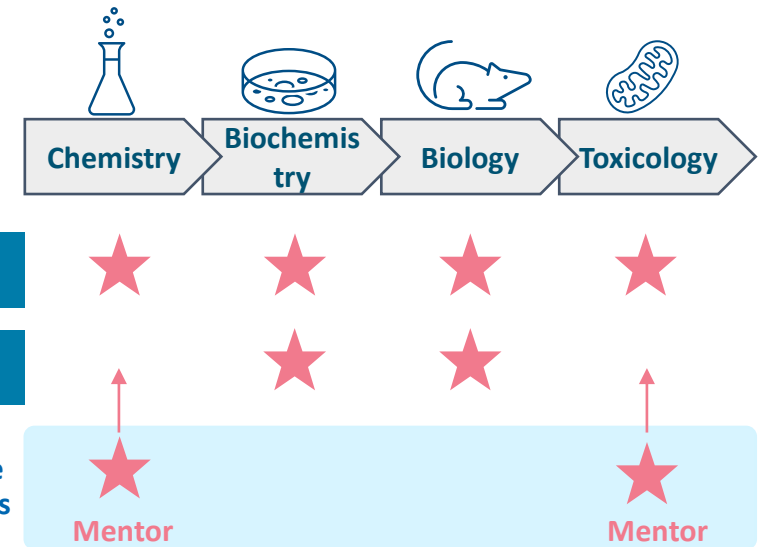
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Best Practice Secrets

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- **Management support by science-trained staff**  **Know-how**
- Rules of **non-confidential communication**  **Psychological Safety**
- **Mutual stimulation:** Mentors are not only helping their mentees but also being stimulated  **Opportunities**





Startups in Asian countries have raised funds in much larger scale than in Japan

