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# World Without Disease Call-for-Proposal

Presented by

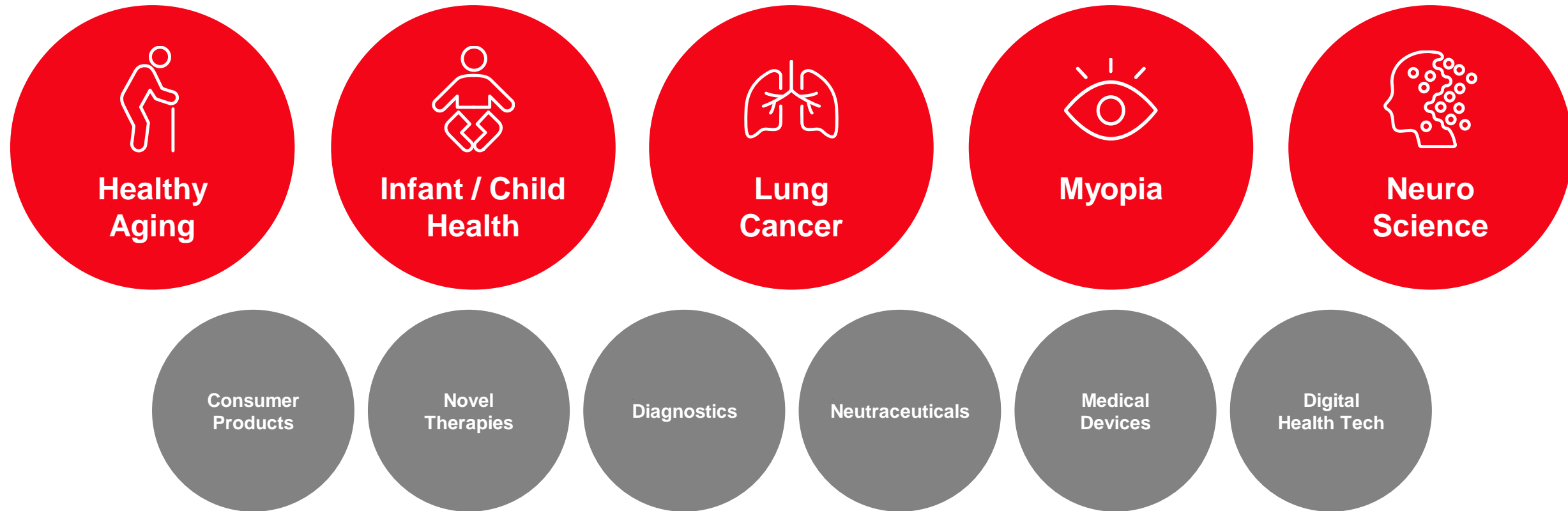
 INNOVATION

 janssen  
PHARMACEUTICAL COMPANIES OF  
Johnson & Johnson

 Takeda

 iPark  
Shonan

# Area of Focus



Up to 5 projects will be selected (Johnson & Johnson x3; Takeda x2)

# Janssen's World Without Disease Accelerator: Areas of Focus



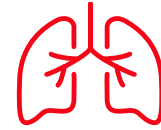
## Healthy Aging

- What non-invasive devices can be used to help detect changes in an adult health?
- How can wearable devices and sensors monitor the health of an adult?
- What types of home diagnostics can be used to monitor the health of an adult or family?
- Novel Technologies and therapeutic strategies to reduce disease risk and stop progression of neurodegenerative diseases?
- Targets of interest include those with non-amyloid centric rationale and with strong human genetic validation or real world evidence supporting direct relevance to broader patient population



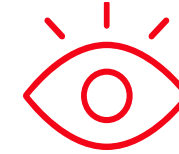
## Infant/Child Health

- How can we predict which infants will get early life diseases, e.g., atopic dermatitis, asthma, allergy before they appear?
- What new non-invasive devices can be used on infants to help detect / monitor diseases?
- What nutritional solutions can be used to help aid in the infant's development?



## Lung Cancer

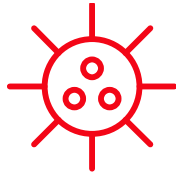
- How can people with lung cancer be identified earlier through other than the conventional approaches (i.e. CT medical imaging)?
- How can people with a high-risk to lung cancer be identified and how can these individuals be protected?
- How can digital therapeutics, such as virtual reality or gamification, potentially reduce the number of people with lung cancer that are smoking?



## Myopia

- How can we predict the onset of myopia in children before it appears?
- What new non-invasive devices can be used to help detect myopia?
- What solutions can be used to help prevent myopia?

# Takeda's Areas of Focus



## Neuroscience – Disease

- What are the advanced views of CNS diseases emerging from improved understanding of the disease etiology/pathophysiology?
- New therapeutic approach for treatment of symptoms cutting across current disease classification such as impulsivity, anhedonia, cognitive deterioration, intellectual disability and etc.
- Pathologies/symptoms associated with disturbance of the brain homeostasis under circadian rhythm
- Functional disturbances of the brain associated with medication or operative treatment



## Neuroscience – Targets/Biological Pathways

- What can be a novel approach for neurological diseases based on analysis of patient data?
- Validated target and pathway for diseases in CNS elucidated from artificial intelligence approach
- Novel/transformational therapeutic approach toward age-related neurological disorders; including, but not limited to anti-aging, calorie restriction mimetics, physiological function restore/improvement
- Intervention to neurological diseases with cell-protection and cell-repair approach



## Neuroscience – Therapeutic Modalities

- How can we efficiently deliver therapeutics across blood brain barrier?
- Medications that can be combined with TMS/TES for improved outcome
- Platform technologies enabling cell type specific intervention in the brain



## Neuroscience – Biomarker

- How can wearable devices and sensors be used for improving usefulness of human samples?
- How non-invasive devices can be used to detect changes in the brain of patients with CNS diseases?
- Digital-guided patient stratification approaches in CNS disorders
- How to identify the right patient population for early intervention by nervous system protection in neurodegenerative disorders

# Applicant Eligibility



**Companies**  
(start-ups/biotechs/  
enterprises)



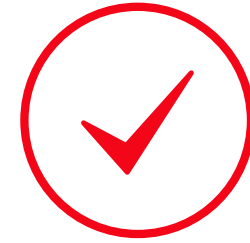
**Foundations**



**Universities**



**Institutions of  
higher learnings**



**Other  
corporations**



**Must be  
established and  
exists in Japan**

# Up to 5 Awardees will be Selected



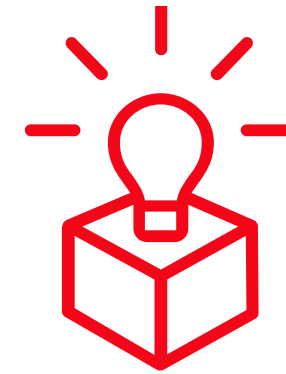
## Grant Funding

JPY 10,000,000 / year for 3 years



## Incubation & Space

at Shonan iPark

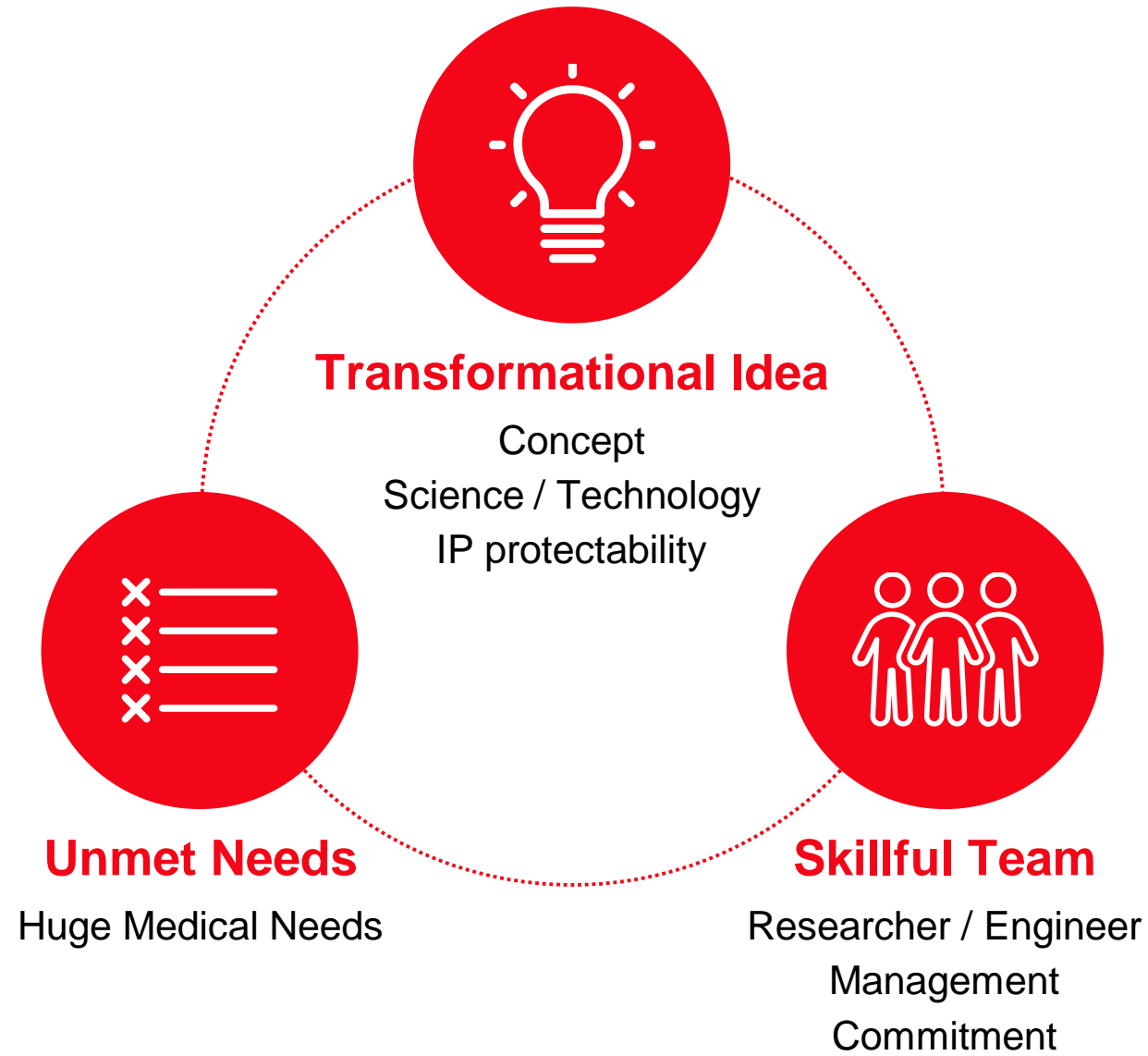


## Mentorship & Coaching

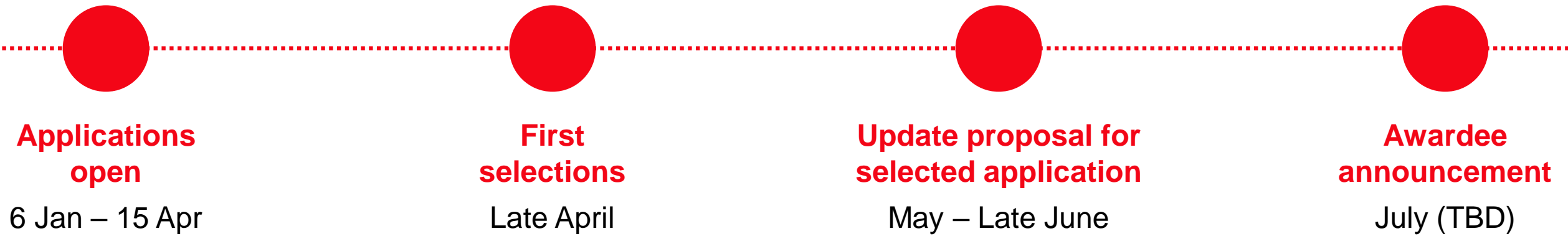
from experts at sponsor companies

\*As model case. The amount of grant funding may differ case by case.

# Selection Criteria



# Timeline



To submit your application, please visit  
<https://www.shonan-health-innovation-park.com> in January 2020  
For any enquiries please email [wwda\\_gc@its.jnj.com](mailto:wwda_gc@its.jnj.com)



# 「病のない世界」 研究インキュベーション事業公募

共催

 INNOVATION

 PHARMACEUTICAL COMPANIES OF  
Johnson & Johnson



 iPark  
Shonan

# 対象となる研究領域



最大5チーム・個人が採択されます（ヤンセンファーマ3；武田薬品2）

# ヤンセン World Without Disease Accelerator のフォーカスエリア



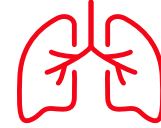
## 健康長寿

- 高齢者の健康状態の変化を検出する非侵襲的技術（デバイス含む）
- 高齢者の健康をモニターするウェアブルデバイスやセンサー
- 高齢者や家族の健康をモニターすることに使用可能な家庭用の診断技術
- 神経変性疾患のリスクを低下させたり、その進展を抑制する新規の技術や治療戦略
- ヒト遺伝子解析等によって妥当性が検証されているか、あるいは広範囲な患者集団を用いて直接的に妥当性が示されたリアルワールドエビデンスを有する非アミロイド仮説を支持する新規治療標的分子



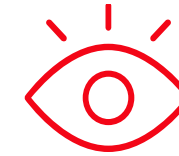
## 乳幼児アレルギー

- アトピー性皮膚炎、喘息・アレルギーなど、幼少期に発症する疾患を、発症前にどのように予測できるか
- 乳幼児アレルギーを発見・モニターでき、乳幼児に使用可能な非侵襲的診断技術（デバイス含む）
- 乳幼児の正常な発育・発達をサポートする栄養学的な解決法



## 肺がん

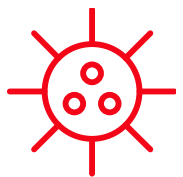
- 従来から用いられているCTなどによる画像診断技術とは異なる新規早期肺がんの診断技術
- 肺がん罹患する可能性の高いハイリスクな健常人を同定する方法や予防技術
- 喫煙している肺がん患者の人口を減らすためのバーチャルリアリティやゲーム化したようなデジタル治療技術



## 近視

- 小児における近視発症を予測する技術
- 近視を診断・検出する新規の非侵襲的なデバイス
- 近視の発症や進展を予防する解決法

# タケダ薬品のフォーカスエリア



## ニューロサイエンス – 疾患

- 病因/病態生理の理解の進歩に基づいた中枢神経系疾患の新しい捉え方は何か
- 衝動性、快感消失、認知機能低下、知的障害など、既存の疾患分類にまたがる症状に対処するための新しい治療アプローチ
- 概日リズムの乱れや脳ホメオスタシス障害に伴う病態/症状の治療アプローチ
- 投薬や外科的処置に伴う脳の機能障害への治療アプローチ



## ニューロサイエンス – 創薬ターゲット/パスウェイ

- 患者データの解析に基づいた神経疾患の新しいアプローチ
- 人工知能を用いて見出された中枢神経疾患治療のための標的とパスウェイ
- 加齢に関連した神経疾患に対する新規で革新的なアプローチ（アンチエイジング、カロリー制限の代替法、生理学的機能回復/改善法などを含むが、これらに限定されない）
- 細胞保護および細胞修復アプローチによる神経疾患への介入



## ニューロサイエンス – 治療モダリティ

- 治療薬を血液脳関門を効率的に通過させて送達するにはどうすればよいか
- 磁気刺激治療や経頭蓋電気刺激法と併用することでより良い治療効果が期待できる薬剤
- 脳における細胞種特異的介入を可能にするプラットフォーム技術



## ニューロサイエンス – バイオマーカー

- ヒトから得られた試料やデータの有用性を向上させるために、ウェアラブル装置やセンサーはどのように利用できるか
- 中枢疾患患者の脳の変化を検出するために、どのような非侵襲的デバイスの利用が考えられるか
- 中枢疾患におけるデジタル機器を用いた患者層別化法
- 神経変性疾患に対する神経保護的介入をいかに早期に適正な患者を見出して行えるか

# 応募資格



スタートアップ企業/  
ベンチャー企業/  
大手企業



公的研究機関



大 学



その他研究機関



その他の法人  
(NPOなど)



日本国内に事業拠点を  
置く団体・個人に限る

# 最大5チーム・個人が採択されます



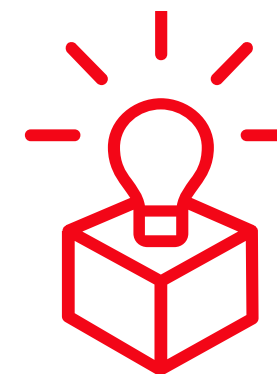
## 研究助成金

1000万円程度×3年間\*



## 研究スペースと各種サポート

@湘南アイパークー最大3年間

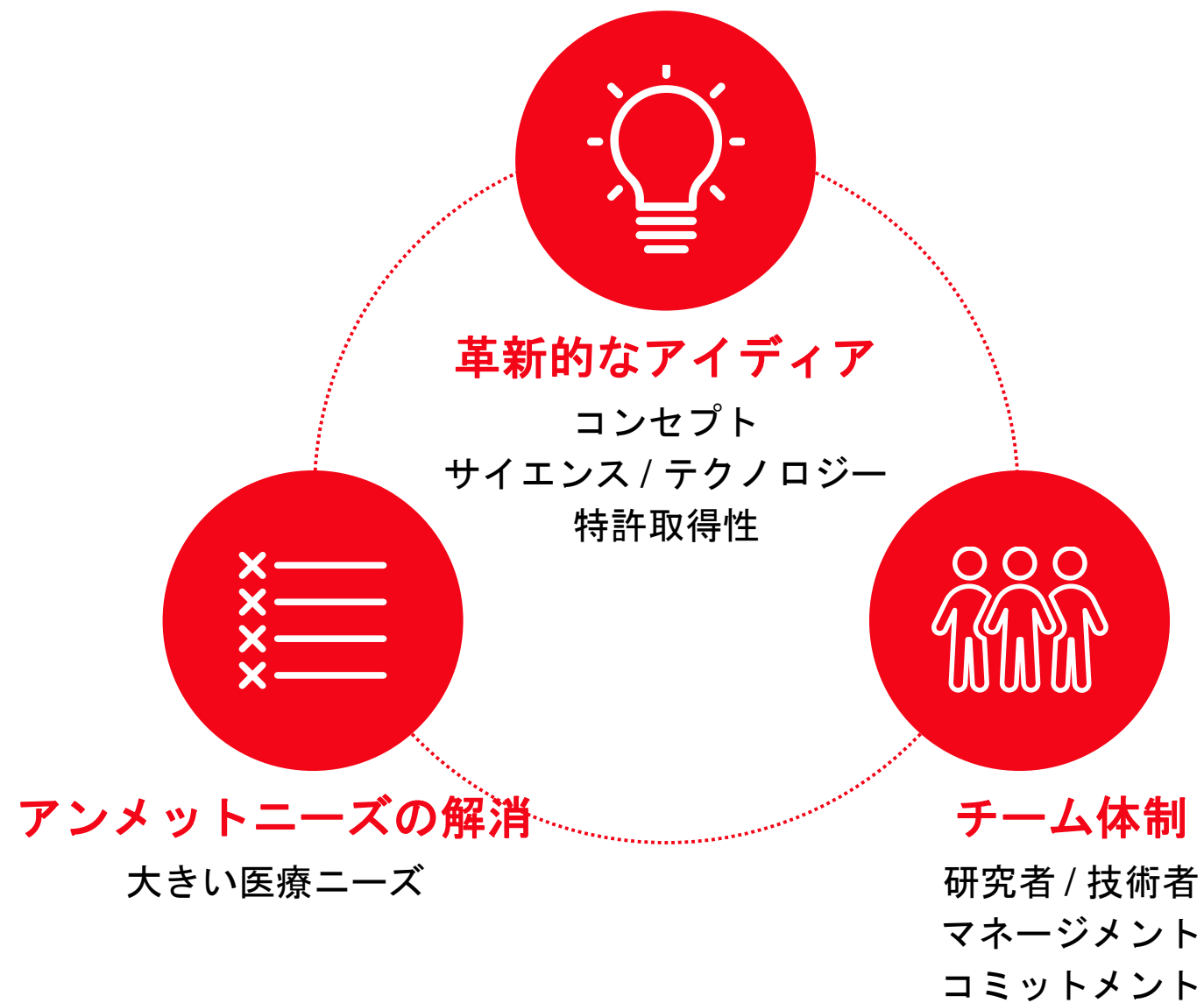


## メンタリング・コーチング

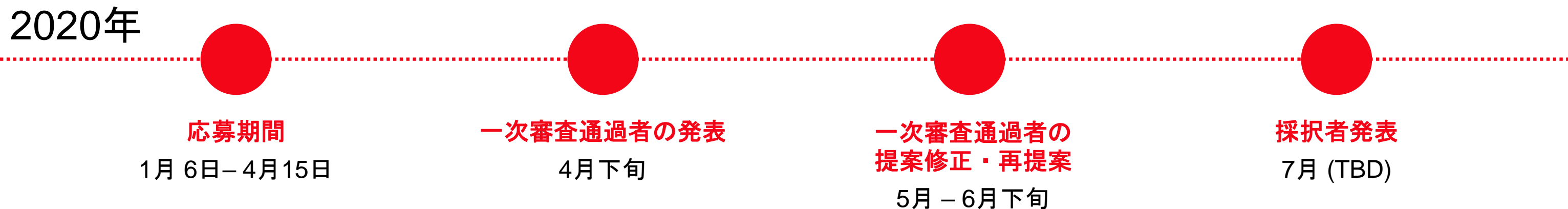
共催企業の専門家による

\*標準モデル。研究内容によって変更の可能性あり

# 選択基準



# タイムライン



本事業についての詳細については一月以降、ウェブサイトをご覧ください

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

お問い合わせ先：[wwda\\_gc@its.jnj.com](mailto:wwda_gc@its.jnj.com) または <http://shonan-health-innovationpark.com/contact-us/?subject=inquiry+about+Shonan-Health-Innovation-Park>



# Appendix

# Application Form-1

<b>Applicant's name</b> <i>(last, first name)</i>	
<b>Job Title</b>	
<b>Organization's name</b>	
<b>Contact Information</b> <i>(address, email address, work phone)</i>	
<b>Principal Researcher's name</b>	
<b>Principal Researcher's position</b>	
<b>Brief Biography of the Principal Researcher</b>	

# Application Form-2

<b>Areas of Interest</b> <i>(Select only ONE area out of eight areas listed here)</i>	<ul style="list-style-type: none"><li>• Healthy Aging (Janssen)</li><li>• Infant / Child Health (Janssen)</li><li>• Lung Cancer (Janssen)</li><li>• Myopia (Janssen)</li><li>• Neuroscience (Takeda)</li></ul>
<b>What issue can your technology address?</b> <i>(select one area and describe briefly how/what)</i>	Example: <u>Baby / Infant Health</u> - Proprietary new non-invasive diagnostic device technology, called “XXXXXX”, which can be applied to predict future food allergy in babies / infants before appearing symptom
<b>Abstract</b> <i>(non-confidential) within 400 words</i>	No template. Please upload as a PDF file.
<b>Keywords</b>	

# Application Form-3

## Background / State of Development of Your Technology

*(non-confidential)  
within 1000 words*

No template. Please upload as a PDF file.

*Please include the information below:*

- *Background of your research and achievement;*
- *If any, related articles which we have published;*
- *If any, related patent publication (published or pending). Please note that any confidential information that could affect the patentability of the invention should not be submitted;*
- *Differentiation characteristics of your technology from existing technologies vis-à-vis competitors;*
- *Please indicate whether you have any existing research collaboration(s) with partners or have obtained any grant funding for development of your technology*

# Application Form-4

<p><b>Proposed Budget Plan</b> <i>(including overhead/indirect costs)</i></p>	<p>JPY _____ per year x 3 years = Total JPY _____</p>
<p><b>Proposed contribution on Shonan iPark healthcare ecosystem</b></p>	<p><i>Examples:</i></p> <ul style="list-style-type: none"> <li>▪ <i>Provide life science seeds list of university you belong.</i></li> <li>▪ <i>Organize a science seminar of your specialty research area.</i></li> </ul>
<p><b>Milestones and Proposed Output at completion</b></p>	<ul style="list-style-type: none"> <li>• Milestone 1:XXXX by approximate date</li> <li>• Milestone 2: XXXX by approximate date</li> <li>• Proposed Output: XXXX by approximate date</li> </ul>
<p><b>Proposed Allocation Requirement at Shonan iPark</b></p>	<p>Proposed allocation of research time, specifying the research time to be spent at Shonan iPark</p> <ul style="list-style-type: none"> <li>▪ What type and size of research facilities do you need to conduct your research, (i.e, Animal/Biology/ Chemistry/Other)?</li> <li>▪ According to your estimation, how many members of your team will need to use of iPark on a daily basis?</li> <li>▪ Is there any specific research equipment and facilities you need to utilize?</li> </ul>