

PMU-B



Program Management Unit for Human Resources
& Institutional Development, Research and Innovation



Mission of PMU-B

➤ “Demand-Driven Policy”



Funding allocation for brain power and human resources

in essential areas to foster national development according to the Higher Education, Science, Research and Innovation Policy and Strategy as well as supporting research and educational grants for research professionals, post-doctoral and post-graduates.



Funding allocation for frontier research

to enhance research capacity for future industries



Funding allocation for research ecosystem and science and technology infrastructure as foundation for national facility

Program 2023-2027



(S3) Frontier Research

(S4) Brain Power

(S4) Global Partnership

BCG Frontier

Personalized Medicine

- Bioinformatics
- System Biology
- Biogenetics
- Personal Health AI

Future Food/Special Food

- Personalized Food
- Sustainable Food processing
- Functional Food
- Alternative Protein

Climate Change/Net Zero

- CCUS
- Nature based Solution
- Green Energy

Frontier / Future Technology

HEP/Plasma/Fusion Technology

Quantum Technology

Earth Science/
Space Technology/
Geo-Informatics

Astronomy
(Optics/Technology)

SHA Frontier/ Soft Power

Film

- Creative Content

Fashion

- Fragrance
- Fabric

Festival

- Cultural

AI, Cloud & Infrastructure

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PMU-B supports research projects related to
Biochemistry and Molecular Biology in various issues.



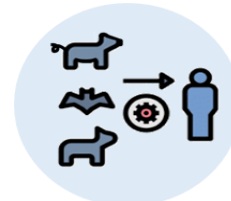
Medical Health AI



Future Food



Personalized
Medicine



Zoonosis

Scope of Research & Development of
Personalized Medicine for Cancer



BIOTEC
a member of NSTDA

Research and Innovation for Creating Opportunities and
Capabilities toward Personalized Medicine

Tumor Bank

Clinical Data
Omics Data

Development of
Biomarkers based on
clinical characteristics
and molecular
biomarkers

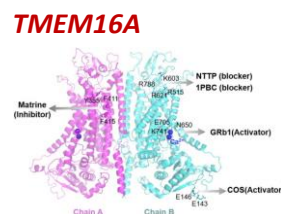
Clinical
Samples
Organoids

Validation of
selected
biomarkers as drug
targets for cancer

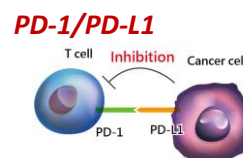
- Identification of small molecule drug candidates (agonist/antagonist/protein expression modulator)
- Mechanism investigation
- Efficacy testing in patient-derived organoids and xenograft models



(<https://en.wikipedia.org/wiki/KRAS>)



(Shi et al, Com Struc Biotec J. 2020)



(<https://www.arigobio.com/>)

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