

# 10-Year Strategy for Cancer Research

Completely cure, prevent, live with: cancer research, working with patients and society FY2014-2023

Ministry of Education, Culture, Sports, Science, and Technology (MEXT), Ministry of Health, Labour, and Welfare (MHLW), and Ministry of Economy, Trade, and Industry (METI) 31 Mar 2014

## Strategic Goal

Develop complete treatments of, prevention of, and ways of living with cancer, furthering comprehensive and strategic research on cancer, the Leading cause of mortality in Japan, and achieve the overall goals of the Basic Plan, working with patients and the public.

### **Directions**

- Industry-academia-public sector collaboration
- Research responding to needs of public/clinical fronts
- Public involvement in research
- COI management

#### Research and Development Focus

- Curative cancer treatments
- Relieve suffering of cancer patients and their families as needed

- Prevention and early detection of cancer
- <u>Living with cancer</u>

#### *Initiatives*

- (1) Elucidate fundamental causes of cancer
- (2) Develop drugs to address unmet medical needs
- (3) Develop medical technologies for patient-friendly care
- (4) Develop new standard therapies
- (5) Develop treatments tailored to each generation/cancers:
  - 1) Childhood 2) Geriatric 3) Intractable 4) Rare

- (6) Investigate tools for prevention and early detection
- (7) Establish communities that value cancer survivors
- (8) Effective implementation and evaluation of cancer control
- Research capacity building, for continued promotion of cancer research

# 10-Year Strategy for Cancer Research

# - Interim Report

#### Third Basic Plan to Promote Cancer Control Programs

(Cabinet Decision 9 Mar 2018)

Dictates an interim appraisal by experts, for adjustments accordingly

'Expert Committee on the Future of Cancer Research' (Chair: Hitoshi Nakagama)

'Study on the 10-Year Strategy for Cancer Research Appraisal' (PI: Yasuhiro Fujiwara)

Both recommended an interim appraisal

- Cancer research progressing well in general
- The eight research pillars to continue, <u>issues identified</u> for each, responding to the third Basic Plan to Promote <u>Cancer Control Programs</u>
- Research spanning individual pillars identified

# **Eight Research Pillars**

- (1) Elucidate fundamental causes of cancer
- (2) Develop drugs to address unmet medical needs
- (3) Develop medical technology for patient-friendly care
- (4) Develop new standard therapies
- (5) Develop treatments tailored to generations / cancers
  1) childhood 2) geriatric 3) rare 4) intractable
- (6) Investigate tools for prevention and early detection
- (7) Establish communities that value cancer survivors
- (8) Cancer control effective implementation and evaluation

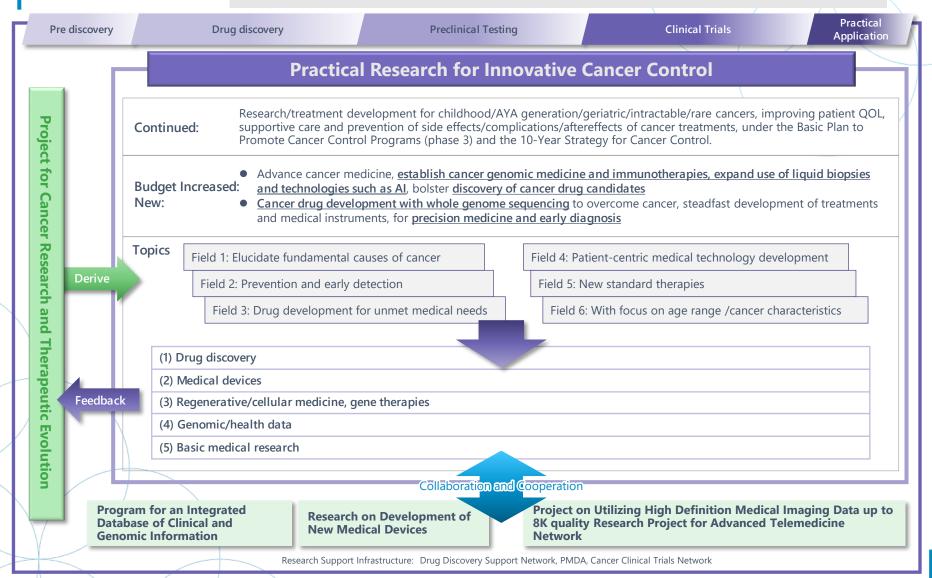
# **Cross-pillar issues**

Treatment agents search, genomic medicine, immunotherapy, liquid biopsies, utilization of emerging technologies such as AI, research framework development

## **Research Topics**

## Research and Development under the 10-Year Strategy for Cancer Control

(Completely cure, prevent, live with: cancer research, working with patients and society)



# Cancer Control Promoting Research

# - MHLW Scientific Research Grant

### **Overview**

- '10-Year Strategy for Cancer Research' topics to be evaluated, they are:
  - Establishing communities that value cancer survivors
  - Effective implementation and evaluation of cancer control
- This research is positioned as a framework to enable cross-thematic research under the Fourth Basic Plan to Promote Cancer Control Program, of the three pillars 'cancer prevention,' 'cancer treatment,' and 'living with cancer.'

## **Outcome Summary**

- · Cancer screening material for raising awareness, for local governments
- Rare cancer guidelines
- Decision support programs utilising mobile devices, intervention manuals
- Survey on at-home care for childhood cancer patients
- Appraisal for equity in rehabilitation care
- Capacity building of physicians providing cancer genomic medicine
- · Network establishment for cancer reproductive medicine

Palliative care, support consultation services for cancer survivors, effective cancer control implementation such as on cancer registry/education, those with high priority were appraised.

Rare cancers, intractable cancers, childhood cancers, and cancers of AYA generation, developing new treatments such as genomic medicine, are important, as is ensuring patients stay in the work force.

# 10-Year Strategy for Cancer Research fy2024-2033

Cabinet Office, Ministry of Education, Culture, Sports, Science, and Technology (MEXT), Ministry of Health, Labour, and Welfare (MHLW), and Ministry of Economy, Trade, and Industry (METI) 25 Dec 2023

## Strategic Goal

Drive comprehensive and strategic research initiatives working with all nationals to reinforce prevention of, treatments for, and living with cancer, towards the goal of the Basic Plan to overcome cancer with all nationals, with policies leaving no one behind.

#### **Directions**

Focusing on effective implementation and long-term outcomes, ministries, industry, and academia to collaborate closely with cancer patients and the general public to promote fundamental, clinical, and policy research in a coordinated manner.

#### *Initiatives*

- (1) Prevention Research
  - Elucidate risk factors for primary prevention
  - Identify high risk populations, for secondary prevention
- (2) Diagnoses/Treatments
  - Develop diagnostic technologies to further advance personalized medicine
  - Develop drugs/treatments
  - Develop standard treatments meeting diverse needs
- (3) Research for Living with Cancer
  - Consultations/information provision available to all
  - Comprehensive Survivorship Care

- Develop treatments tailored to each generation/cancers
  - Rare cancers, intractable cancers
  - Childhood and AYA generation
  - Geriatric cancers
- (4) Cross-disciplinary research to promote cancer prevention, cancer diagnosis/treatment development, and living with cancer
  - Elucidating the fundamental nature of cancer
  - Search/investigate compounds
  - Biobank database, promote utilization and closer alignment
  - Utilize frontier technology and incorporate other disciplines
  - Identify and solve policy issues

## **Fundamentals for Research**

- International collaboration
  - Infrastructure for multi-regional clinical trials, aligning with global databases and utilization
- Foster well-rounded scientists, empower younger/female researchers, expand opportunities for PhD holders Capacity building
- Promote active participation incorporating perspectives from other diseases/fields Patient/public participation

