

### Director's report

#### Dr Elisabete Weiderpass, Director International Agency for Research on Cancer Lyon, France

International Agency for Research on Cancer



Governing Council GC/63/3 , Lyon 17 May 2021, by Web conference

### Impact of COVID-19 on IARC activities and operations

#### Measures put in place

- Activation of a Business Continuity Plan
- Alignment with recommendations from the host authorities
- All IARC personnel worked remotely (16 March-11 May) IARC operations continue

Phase 1 (11 May-2 June): 10% personnel
Phase 2 (3 June-26 June): 20% personnel
Phase 3 (29 June-11 September): 40% personnel
Phase 3+ (14 September-29 October): 50% personnel
Phase 3++ (30 October-further notice): 50% personnel
Phase 4 (?): 70% personnel
Phase 5 – Return to normal – 100% personnel

- Travel ban; videoconferencing put in place; Virtual Town Hall meetings put in place
   Impact
- IARC fundraising plans
- Conduct of research activities

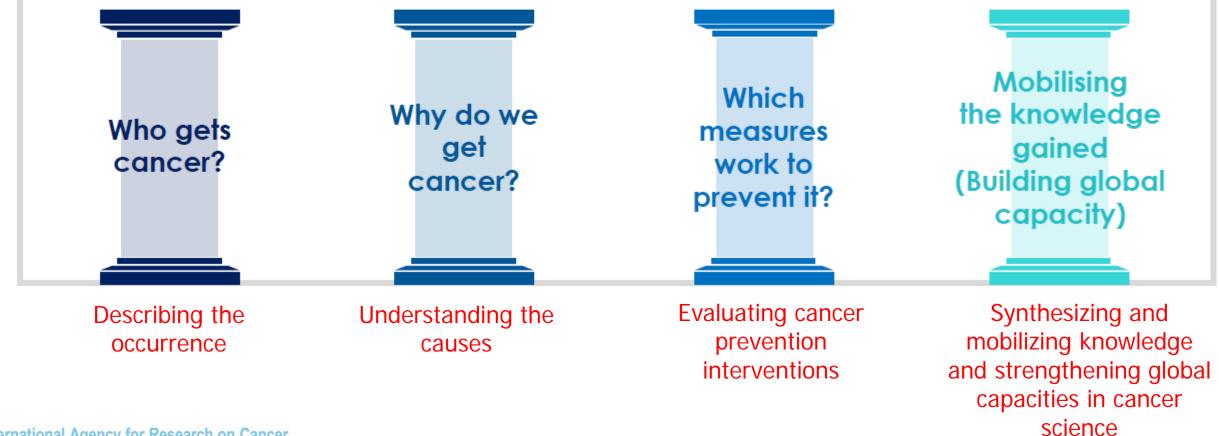


# Major scientific highlights



### IARC – Fundamental priorities

### CANCER PREVENTION





Describing the occurrence GLOBOCAN estimates 2020



### GLOBAL CANCER OBSERVATORY

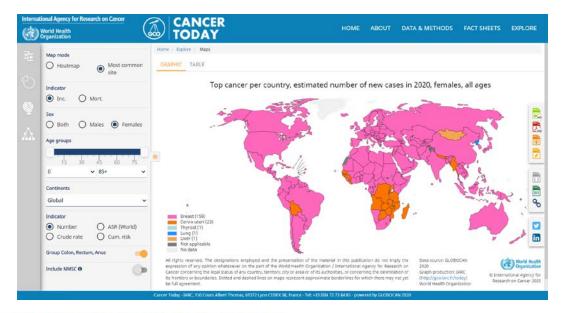


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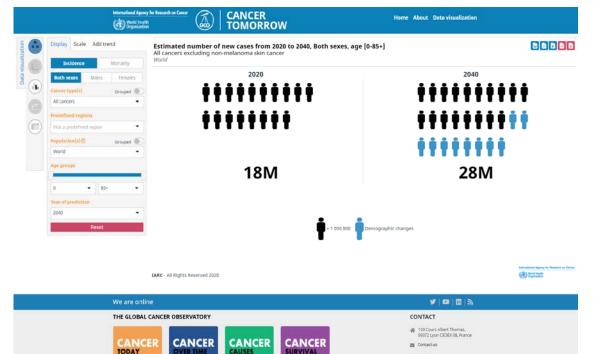
#### 19.1 million new cancer cases worldwide in 2020



#### International Agency for Research on Cancer



# 28 million predicted cancer cases by 2040



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#### Describing the occurrence

Breast cancer overtakes lung cancer as the most commonly diagnosed cancer worldwide

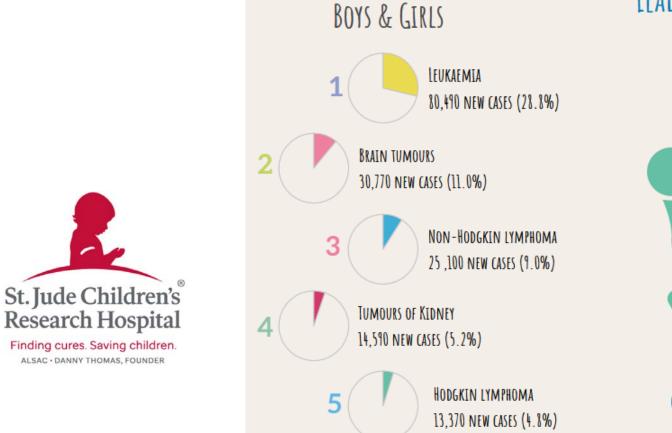
#### **Female breast cancer**

has become the most commonly diagnosed cancer in the world, overtaking **lung cancer.** 

> An estimated **2.3 million new cases** and **685 000 deaths** occurred in **2020**.



#### Describing the occurrence Targeting Childhood Cancer through the Global Initiative for Cancer Registry Development



#### LEADING CANCER TYPES IN CHILDREN

(AGE 0-19 YEARS)



https://gco.iarc.fr/today

THE GLOBAL ESTIMATED NUMBER OF <u>CANCERS IN CHILDREN</u> (AGE 0-19 YEARS) WAS <u>279,420 CASES</u> IN 2020. <u>CANCER WAS SLIGHTLY MORE</u> <u>COMMON IN BOYS</u> THAN IN GIRLS. <u>LEUKEMIA</u> WAS THE <u>MOST COMMON</u> <u>NEOPLASM</u> (29% OF THE TOTAL <u>CASES</u>).



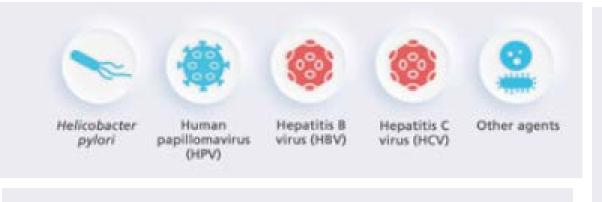
#### Describing the occurrence Cancer Risk In Childhood Cancer Survivors (CRICCS)







#### Understanding the causes Viruses and cancer

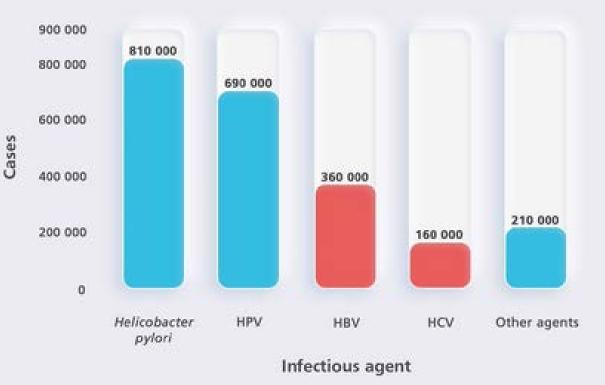


Hepatitis B and C viruses are estimated to be responsible for almost 75% of liver cancer cases.



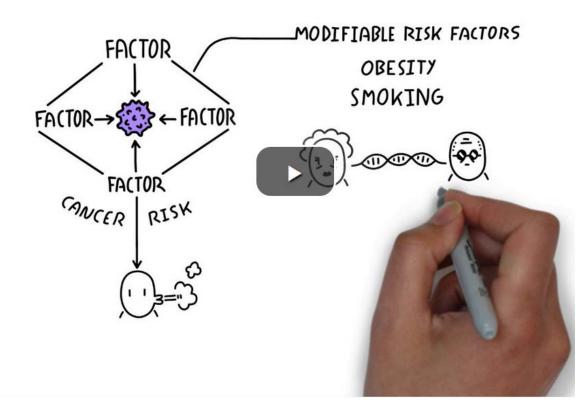
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Estimated numbers of new cancer cases in both sexes in 2018 attributable to infections, shown by infectious agent



#### Understanding the causes

Polygenic risk scores improve cancer risk prediction and stratification



https://www.iarc.who.int/video/polygenic-risk-scores-improve-cancer-risk-prediction-and-stratification/





#### Understanding the causes Alcohol increases the risk of cancers

People who use both alcohol and tobacco have a 5 times

increased risk of developing cancers of the oral cavity, oropharynx,

larynx and oesophagus, compared to people who use either alcohol or

tobacco alone.



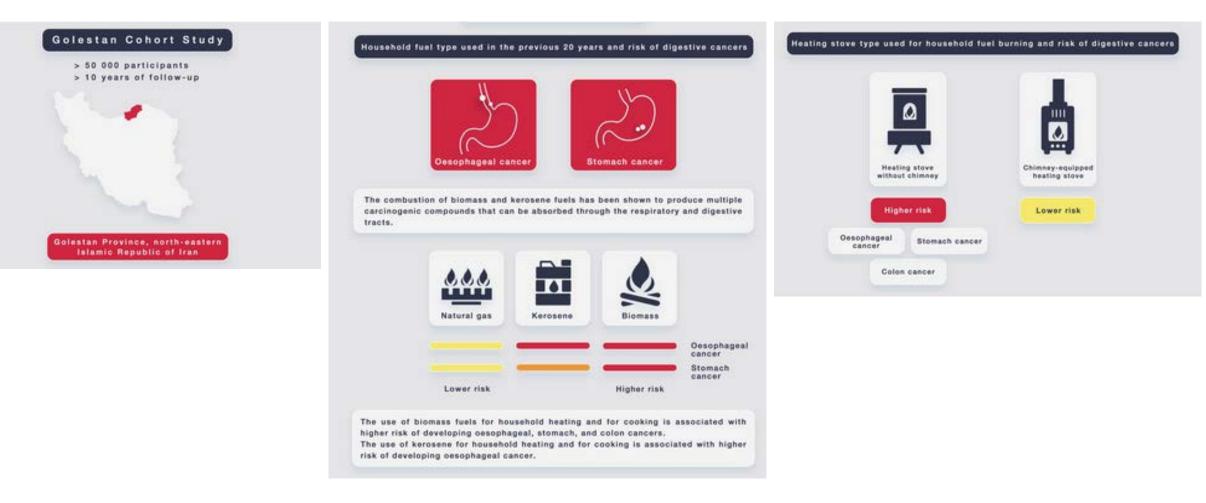
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#### Understanding the causes Household fuel use increases the risk of digestive cancers





#### Understanding the causes The origins of childhood cancer



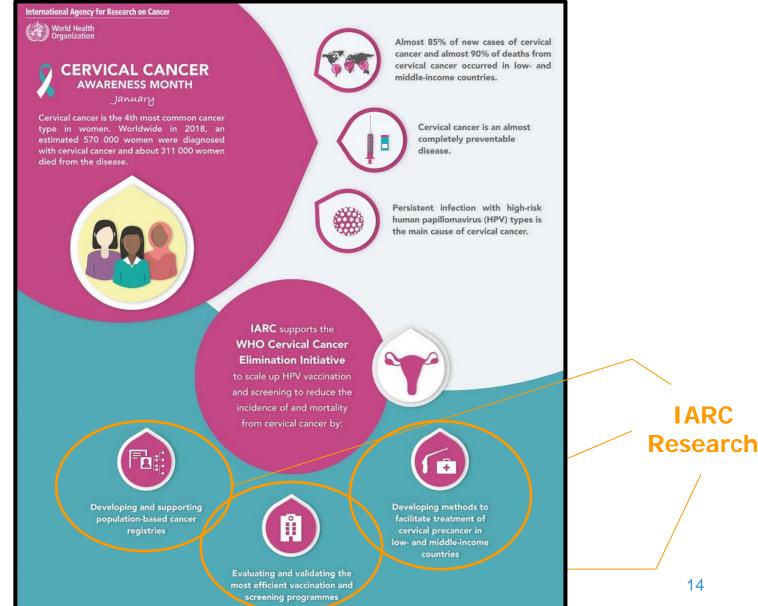
https://www.iarc.who.int/video/researching\_the-origins\_childhoodcancer/



#### Evaluating cancer prevention interventions IARC research supports the <u>WHO Cervical Cancer Elimination</u> Initiative

International Agency for Research on Cancer More than 600 000 women were diagnosed with cervical cancer and more than 340 000 deaths were caused by cervical cancer in 2020.

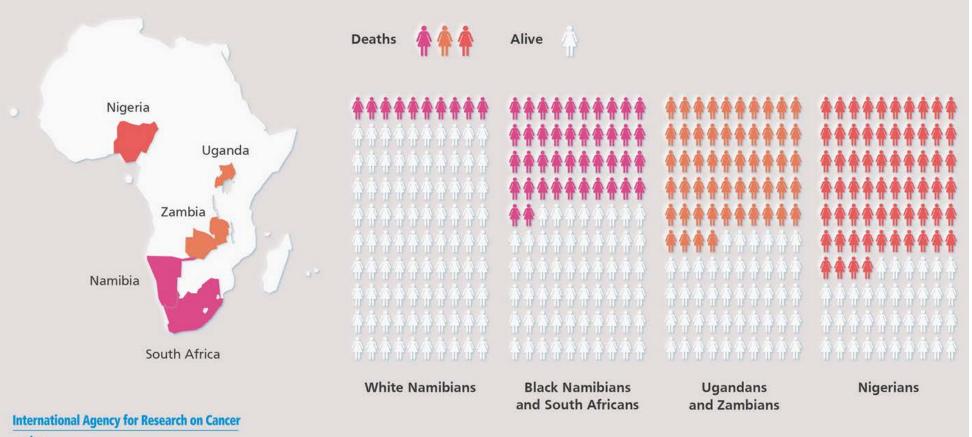




#### Evaluating cancer prevention interventions

Breast cancer survival and survival gap apportionment in Sub-Saharan Africa (ABC-DO)

### **Deaths (%) of African women** within 3 years of their breast cancer diagnosis





#### McCormack et al, The Lancet Global Health, 2020<sup>15</sup>

# Synthesizing and mobilizing knowledge *IARC Monographs* Programme

#### International Agency for Research on Cancer



ortho-Anisidine Aniline hydrochloride hydrochloride Group 2A Group 2B Group 2A Group 2A Probably carcinogenic humans robably carcinogenic t Possibly carcinogenic to robably carcinogenic to Aniline is a chemical with ortho-Anisidine and its hy a high production volume drochloride salt are used mainly to make ortho separate and precipitate metals and as a reagent that is used as a starting to make azo nigments and anisidine which is used material in several indusfor analytical techniques Production is found pritries (plastics, rubber, consumer products such are used in colourants, and pharmaconsumer products such marily in East Asia and as textiles and pape ceutical drugs as textiles and paper India POTENTIAL EXPOSURE **`**\_## dustries that produ dyes and pigme

For all these agents, exposures are expected to be higher in workers than in the general population

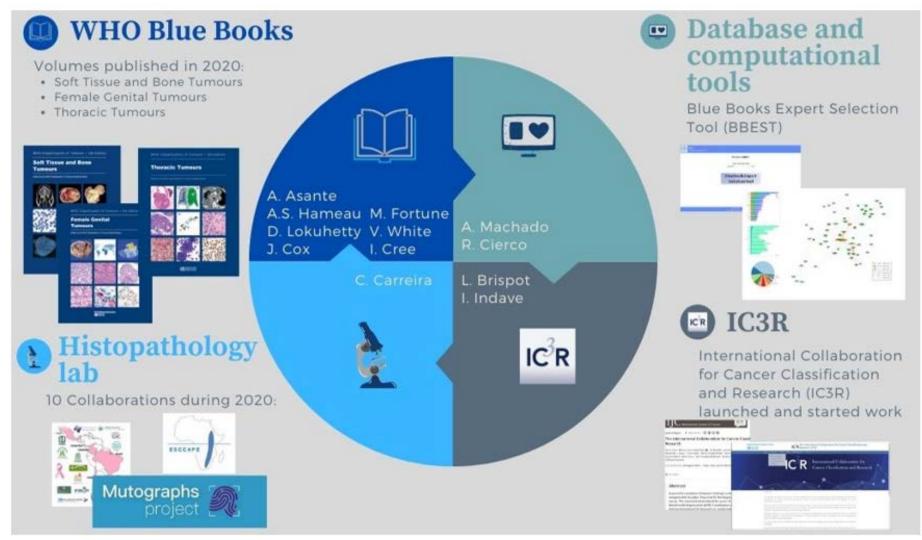
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Scientific Accomplishments in 2020

- Adapted *Monographs* meetings to be fully remote due to Covid-19
- Held three remote *Monographs* meetings (126-128) from May to November 2020
- New or updated classifications for 8 agents:
  - Group 1: Opium consumption
  - Group 2A: Acrolein, Aniline, ortho-Anisidine, ortho-Nitroanisole
  - Group 2B: Arecoline, Crotonaldehyde, Cupferron
- Published three articles in Lancet Oncology
- Published three *Monographs* volumes
  - v.123: Some nitrobenzenes & other industrial chemicals
  - o v.124: Night shift work
  - v.125: Some industrial chemical intermediates & solvents

#### Synthesizing and mobilizing knowledge WHO Classification of Tumours





#### Synthesizing and mobilizing knowledge IARC Handbooks Programme

- Handbook 18 Cervical Cancer Screening
  - Run completely remotely over 4 months
  - First meeting with the new Preamble (new evaluation scheme / comparative statements)
- Collaboration with WHO on the Cervical Cancer Elimination Initiative
  - Handbooks Statements (in bold) for used for making the WHO recommendations
  - Summaries/evaluations as Annex to the guidelines
  - Simultaneous launch of IARC Handbook vol. 18 and WHO recommendations in Spring 2021
- Handbook 19 Oral cancer prevention (Dec. 2021)
  - Special emphasis on oral cancer prevention in South Asia
  - Collaboration with WHO-HQ and WHO-SEARO on scientific and logistics aspects

Evaluations		Grou P
Visual inspection with acetic acid		A / B
Conventional cytology		А
Liquid-based cytology		А
HPV-nucleic acid tests		А
Romanovski Giemsa stain		С
Statements	Balance ber harm	nefit-
HPV vs VIA	HPV >> VIA	
HPV vs cytology	HPV > Cytology	
HPV vs co- testing	HPV > Co-testing	





#### Three priorities for action:

- 1. Assessment of Covid-19 on cancer outcomes with an emphasis on real-time analysis
- 2. Build consortium for collaborative efforts of infectious disease and cancer modellers in the short and longer term
- 3. Assessment of national impact on frontline healthcare workers as pandemic progresses

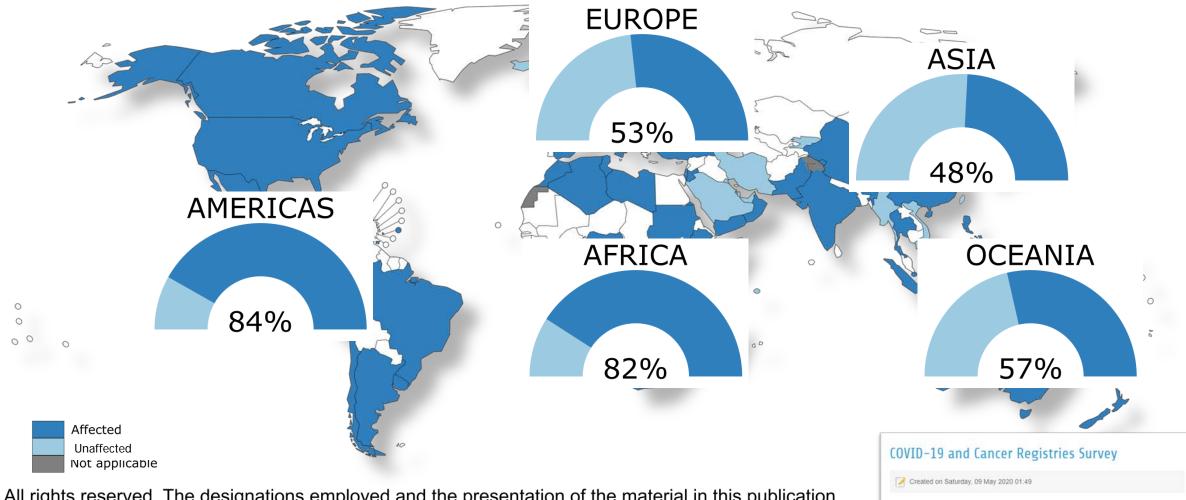
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**Jorld Health** 

rganization



#### Registry operations affected by COVID-19 (incl. staff performance and funding)



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World Health Organization

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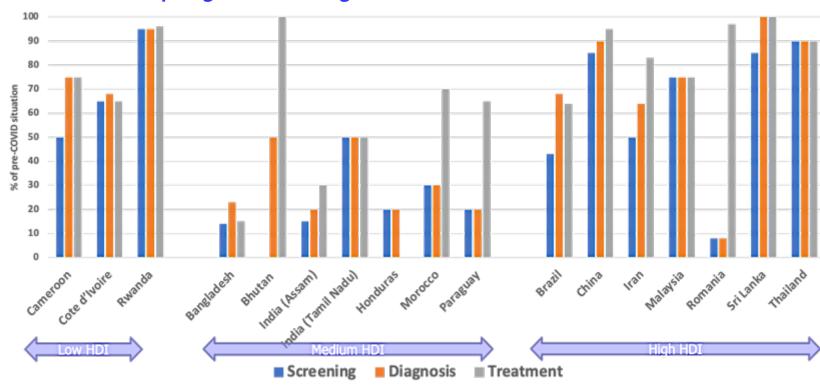
### Impact of COVID-19 outbreak on cancer screening programmes in 17 LMICs belonging to different HDI categories

- Managers/supervisors of cancer screening programs from 17 LMICs participated in an online survey & subsequent in-depth interview.
- Screening was suspended for 30+ days in all except Iran.
- Diagnostic services were suspended for 30+ days in all except Iran, Malaysia & Sri Lanka.
- Cancer treatment services were suspended for 30+ days in Cameroon, Bangladesh, India, Honduras & China.

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**J**rganization

Availability of cancer screening, diagnostic & treatment services in Sept-Oct 2020 compared to the pre-COVID situation – as rated by program managers in a scale of 0 to 100



*Villain et al. Int J Cancer, 2021*<sup>21</sup>

### Key figures 2020: Scientific Publications

470 Articles

387 Peer-reviewed papers

707,039 visits to the Global Cancer Observatory

#### Altmetric database summary report of IARC 2020 output



## 340,454 visits to the Monographs

377,211 visits to the IARC Publications



### Key figures 2020: Capacity Building

177 Early Career and Visiting Scientists

68 new arrivals

2 new IARC Post Doctoral Fellows from Brazil and Kenya supported by "Children with Cancer UK"

2 Return Grants awarded to 2 former IARC Post-Doctoral Fellows from Brazil and Togo

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Training courses and webinars targeting low- and middle-income countries

300 participants from 100 countries for the webinars on "Human Papillomavirus Vaccination" and "Obesity and Cancer" 23



# learning.iarc.fr

World Cancer Report Webinar Series - Obesity and cancer

#### "Evidence linking obesity and cancer' and "Interventions - What are the successes? What about the future?"



16:00 CET

Time:

FORMAT

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Number Of Advancements

#### SUMMARY.

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#### CHAIR



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#### World Cancer Report Updates

The Learning Platform from the 2020 World Cancer Report



#### World Cancer Report

World Causer Report provides at competitions over rises of Cannonmanaged by sprow prevention and is published by MRC about seeing 5 poars

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#### Join the World Cancer Report learning community.



#### Highlights

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#### LEARNING RESOURCES

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Indexe duality is a seried to provide a series of the second Spring Automatic service interview interview interview.

# Cooperation, partnerships, and strategic engagement



#### Strengthened cooperation between IARC and WHO

IARC research provides an evidence base for cancer prevention that is readily translated by WHO into advice and policy recommendations to Member States





The need to tackle advanced stage at diagnosis and improve access to high-quality treatment

International Agency for Research on Cancer World Health Organization





Watch later



Finding cures. Saving children. ALSAC • DANNY THOMAS, FOUNDER Strengthened partnerships

IARC and St. Jude Children's Research Hospital partner to expand global childhood cancer registration

O Memoranda of Understanding (MoU) with China, Brazil, Georgia, USA, and Hungary

MoU renewed with Japan

Memorandum of Agreement (MoA) with France

**3** MoA renewed with Italy, China, and Iran

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12 meetings with Permanent Missions in Geneva



### Strategic engagement highlights

□ IARC has established the IC<sup>3</sup>R to promote evidencebased practice and standards for cancer classification



- Launch of the CBIG-SCREEN project, a collaborative Europe-wide effort to tackle inequalities in cervical cancer screening
- Launch of the Cancer Risk in Childhood Cancer Survivors (CRICCS) funded by Children with Cancer UK
- WHO, IARC, and IAEA held an online consultation to formulate new joint strategies International Agency for Research on Cancer





International Collaboration for Cancer Classification and Research



### Data protection

#### Way Forward

- Continue dialogue with European Commission in close collaboration with UN system agencies, IOs and WHO to find a lasting solution for data sharing with EU institutes for scientific purposes
- IARC intends to find immediate solutions to currently stalled projects in Nordic countries. Meetings are planned in 2021 with Danish and Nordic Data Protection Authorities with the support of the European Commission
- IARC data protection measures are being further solidified with the support of external data protection consultants



### Resource mobilization highlights

IARC Secretariat focused on the following aspects as regards to Resource Mobilization:

Discuss with potential Participating States



(South Africa, Portugal, Mexico, Kazakhstan, Slovakia and Luxembourg)

- Increase the proportion of direct funding
- The Organisation for Economic Co-operation and Development (OECD) put IARC on the list of Official development assistance (ODA)-eligible organizations with a coefficient of 51%
- > Creation of a portfolio of ODA-100% compliant projects. On-going discussions with potential donors
- Explore novel and innovative fundraising for IARC's flagship projects





 $\frac{Grants\ and\ contracts:\ key\ figures\ 2020}{344}\ funding\ opportunities\ identified$ 

236 new grants applications and funding requests

# €20.07 million of extra budgetary contracts signed, of which €12.34 million attributed to IARC

## 81% of contributions to IARC came from 13 funders



# Management



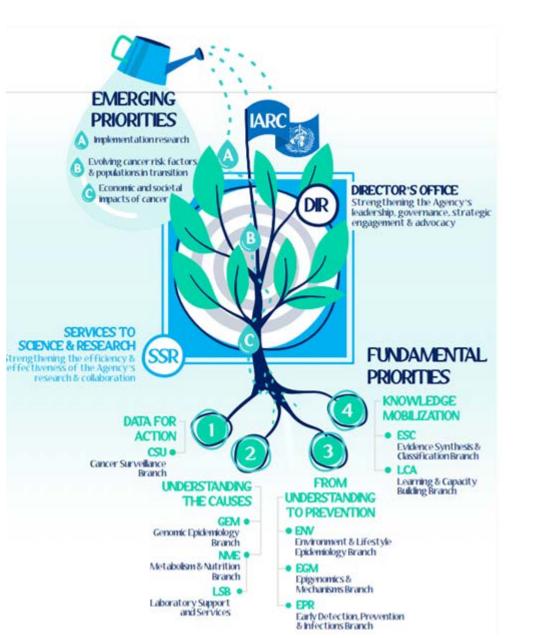
Medium-Term Strategy (MTS) 2021-2025 From preparatory work to the MTS



World Health Organization International Agency for Research on Cancer

World Health Organization

### Medium-Term Strategy 2021-2025



#### Priorities 2021-2025

- The 4 Fundamental Priorities & the 3 Emerging Priorities representing the scientific backbone of the new roadmap
- A new paradigm promoting scientific excellence as a key lever for stronger public health impact
- Cooperation with WHO (SDG & Global Initiatives on Cancer) and partnerships (public & private)
- Consolidation of role as the leading global cancer authority, maintaining its neutral and independent position

### Implementing the Medium-Term Strategy 2021-2025 A gradual approach

- Prioritization of IARC activities: a gradual approach:
- IARC will continue strategic fundamental activities in:
  - Describing the cancer burden
  - Understanding the causes of cancer
  - Evaluating cancer prevention interventions
  - Synthetizing and mobilizing knowledge and strengthening global capacities for cancer
- IARC will gradually strengthen IARC's engagement in the three emerging priorities identified, with a stronger emphasis on implementation research
  - Evolving cancer risk factors and populations in transition
  - Implementation research
  - Economic and societal impacts of cancer



Implementing the Medium-Term Strategy 2021–2025 will facilitate the transition towards a stronger IARC

- Global hub for open science for cancer prevention
- Leader in prevention research
- Recognized for public health impact
- Global capacity builder for cancer science and research





Organizational changes to accommodate new areas of focus

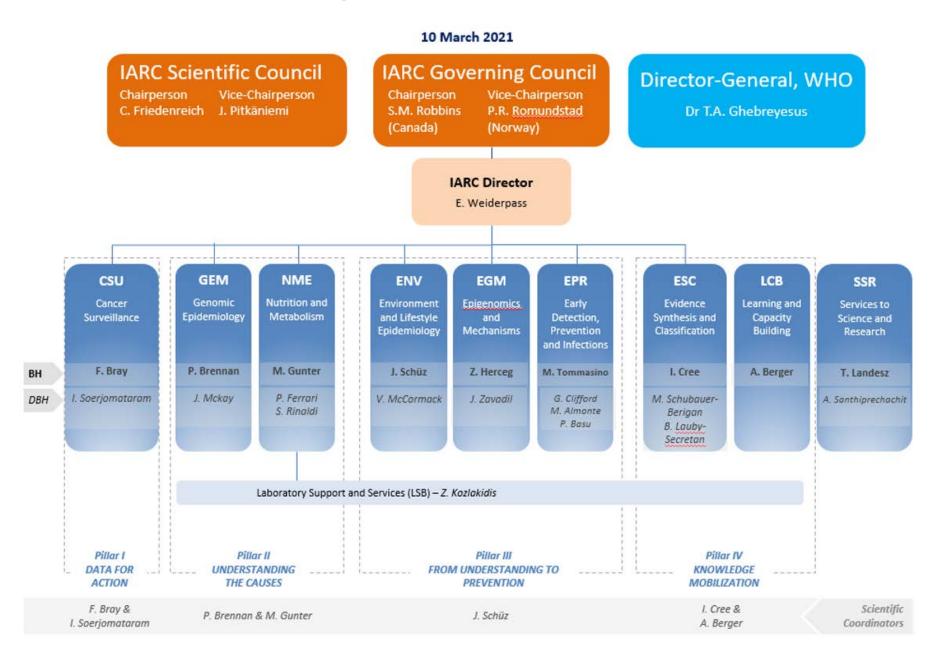
 <u>Flexibility</u>: new structure should facilitate quick responses to emerging needs and opportunities

 <u>New emphasis</u> on implementation research should be well reflected and future growth of this area should be promoted

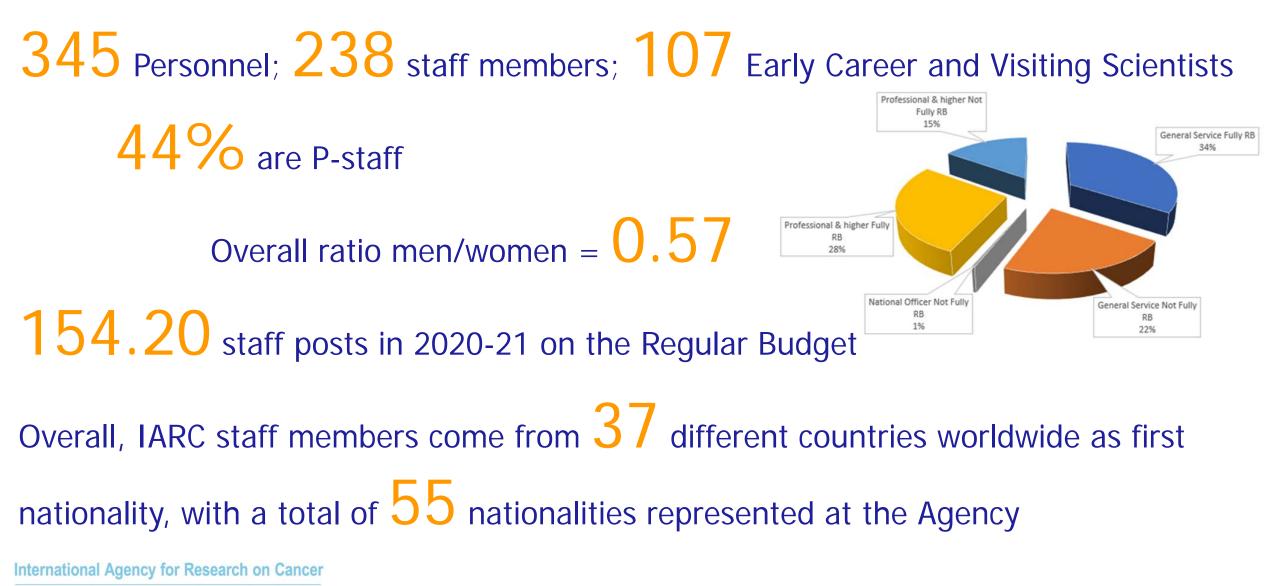
 <u>Research collaboration</u> across Branches (Agency-wide projects) should be improved



#### IARC Organizational structure



### Personnel





# Thank you!

