## **Building a Cancer Biobank in a Low-Resource Setting in Northern Iran: the Golestan Cancer Biobank**

Fatemeh Ghasemi-Kebria, PhD candidate<sup>1,#</sup>; Nastaran Jafari-Delouie, MSc<sup>1,#</sup>; Taghi Amiriani, MD<sup>1</sup>; Alireza Norouzi, MD<sup>1</sup>; Behnoush Abedi-Ardekani, MD<sup>2,‡</sup>; Dariush Nasrollahzadeh, PhD<sup>3,2,‡</sup>; Mohammad Ashaari, MD<sup>4</sup>; Sima Besharat, PhD<sup>1</sup>; Mohammad Naeimi-Tabiei, MD<sup>5</sup>; Isen Gharanjic, MSc<sup>1</sup>, Zahra Babapalangi, MSc<sup>1</sup>, Hossein Poustchi, PhD<sup>3</sup>, Shahryar Semnani, MD<sup>6,1</sup>; Abdolreza Fazel, MD<sup>5</sup>; Zisis Kozlakidis, PhD<sup>7,‡</sup>; Elisabete Weiderpass, PhD<sup>8,‡</sup>; Gholamreza Roshandel, PhD<sup>1,\*</sup>

## Supplementary file 1

| Table S1. Number and age-standardized incidence rates (ASR) (per 100,000 person-year) of the most |                     |       |
|---|---------------------|-------|
| common cancers in the Golestan prov   | ince, Iran, 2017*   |       |
| Tumor site  | Number              | ASR   |
| BREAST (female)   | 355                 | 36.64 |
| STOMACH   | 317                 | 20.49 |
| COLORECTUM  | 269                 | 17.17 |
| LUNG  | 244                 | 14.87 |
| ESOPHAGUS   | 195                 | 12.72 |
| LEUKAEMIA   | 155                 | 9.15  |
| SKIN (non-melanoma)   | 146                 | 9.6   |
| PROSTATE  | 126                 | 17.34 |
| BRAIN   | 112                 | 6.17  |
| BLADDER   | 99                  | 6.12  |
| THYROID   | 89                  | 4.17  |
| NHL   | 77                  | 4.51  |
| LIVER   | 58                  | 3.88  |
| PANCREAS  | 54                  | 3.35  |
| OVARY   | 54                  | 5.91  |
| PHARYNX   | 50                  | 3.06  |
| UTERUS  | 44                  | 5.31  |
| KIDNEY  | 43                  | 2.61  |
| GALLBLADDER   | 40                  | 2.65  |
| MULTIPLE MYELOMA  | 40                  | 2.51  |
| * Source: Golestan Population-based Cand  | eer registry (GPCR) |       |

<sup>&</sup>lt;sup>1</sup>Golestan Research Center of Gastroenterology and Hepatology, Golestan University of Medical Sciences, Gorgan, Iran

<sup>&</sup>lt;sup>2</sup>International Agency for Research on Cancer (IARC), World Health Organization (WHO), Lyon, France

<sup>&</sup>lt;sup>3</sup>Digestive Oncology Research center, Digestive Disease Research Institute, Tehran University of Medical Sciences, Tehran, Iran

<sup>&</sup>lt;sup>4</sup>Department of Pathology, Golestan University of Medical Sciences, Gorgan, Iran

<sup>&</sup>lt;sup>5</sup>Cancer Research Center, Golestan University of Medical Sciences, Gorgan, Iran

<sup>&</sup>lt;sup>6</sup>Omid Cancer Research Center, Golestan University of Medical Sciences, Gorgan, Iran

<sup>&</sup>lt;sup>7</sup>Laboratory Service and Biobank Group, International Agency for Research on Cancer, World Health Organization (WHO), Lyon, France

<sup>8</sup>Office of the Director, International Agency for Research on Cancer (IARC), World Health Organization (WHO), Lyon, France.