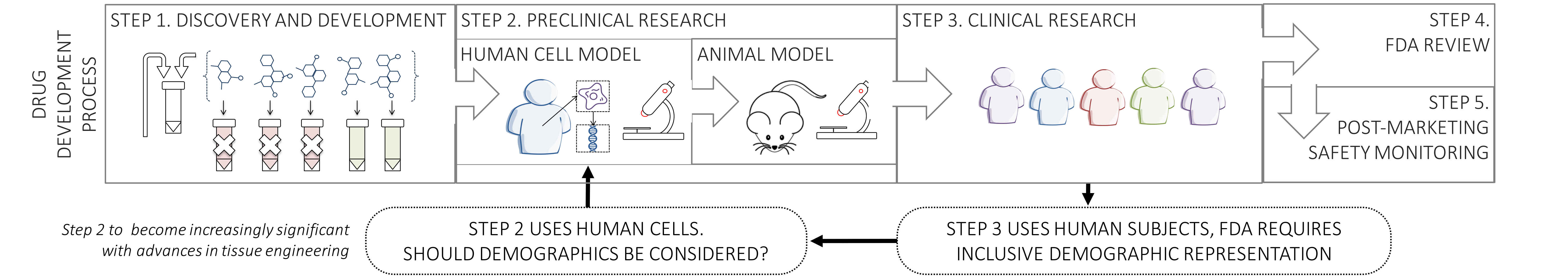


Demographic Inclusiveness in Human Cell Studies

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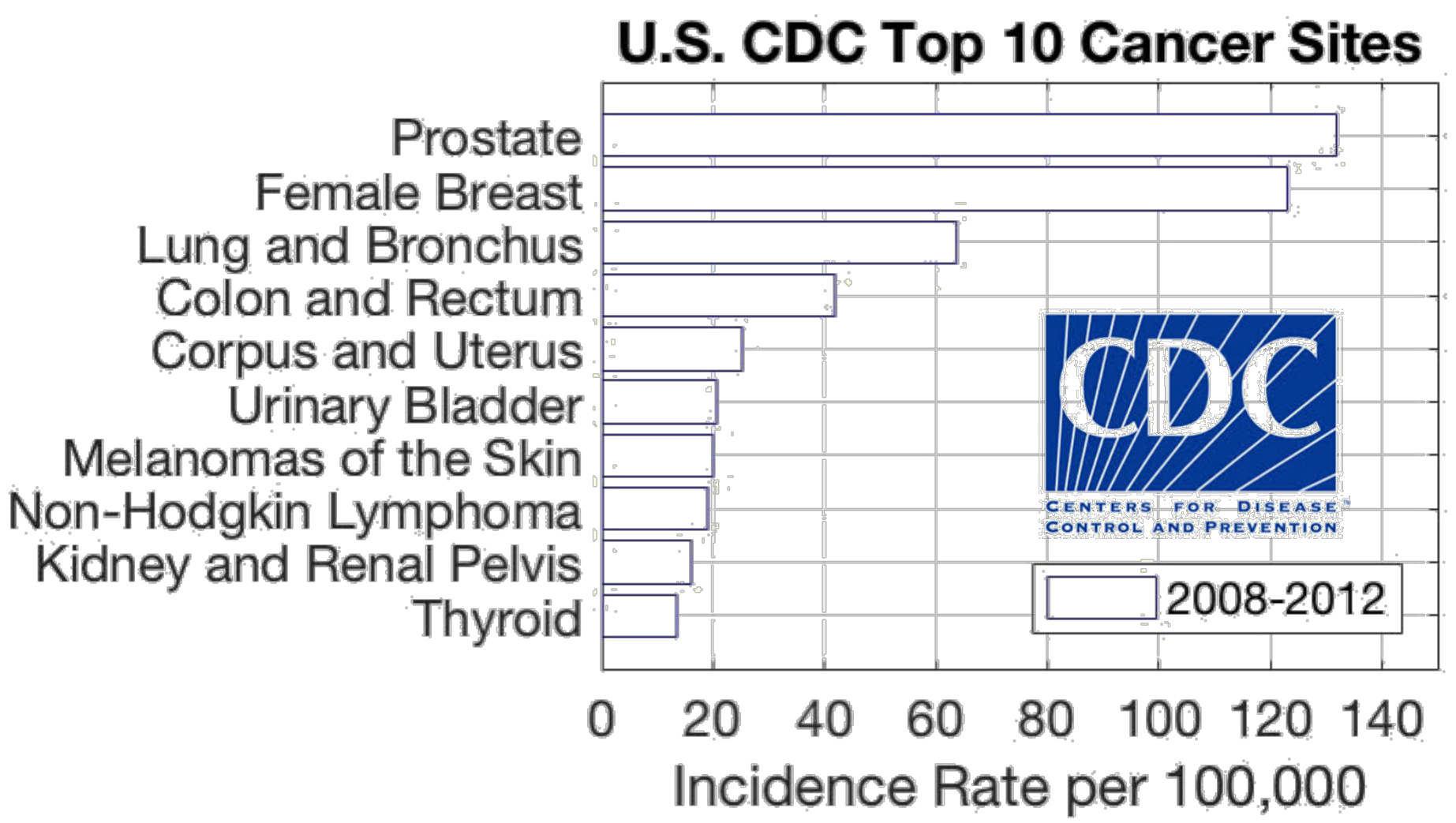
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RATIONALE: WHAT IS THE DEMOGRAPHIC REPRESENTATION DURING MEDICAL RESEARCH? COULD REPRESENTATION EFFECT THE EFFICACY OF TREATMENT?



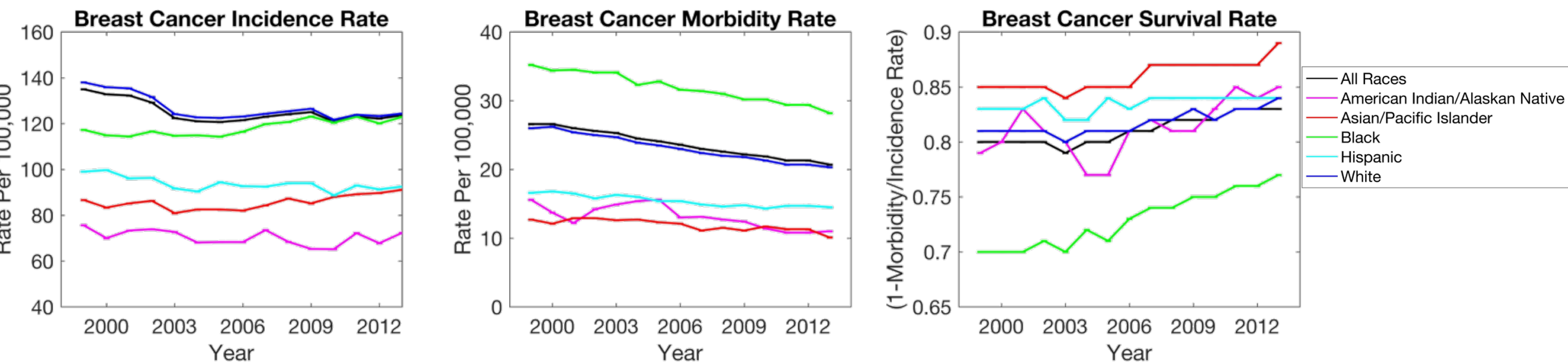
Q1. WHERE IS A CURRENT CHALLENGE IN MEDICINE?

A1. U.S CENTER FOR DISEASE CONTROL (CDC) STATISTICS

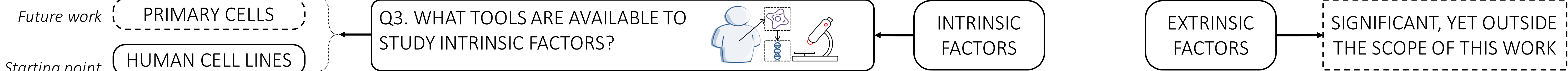


Q2. WHEN PATIENTS ARE GROUPED BY DEMOGRAPHICS, IS THERE A DISPERITY IN THE EFFICACY OF TREATMENT?

A2. MORBIDITY RATE IS HIGHER, SURVIVAL RATE IS LOWER FOR BLACK BREAST CANCER PATIENTS.



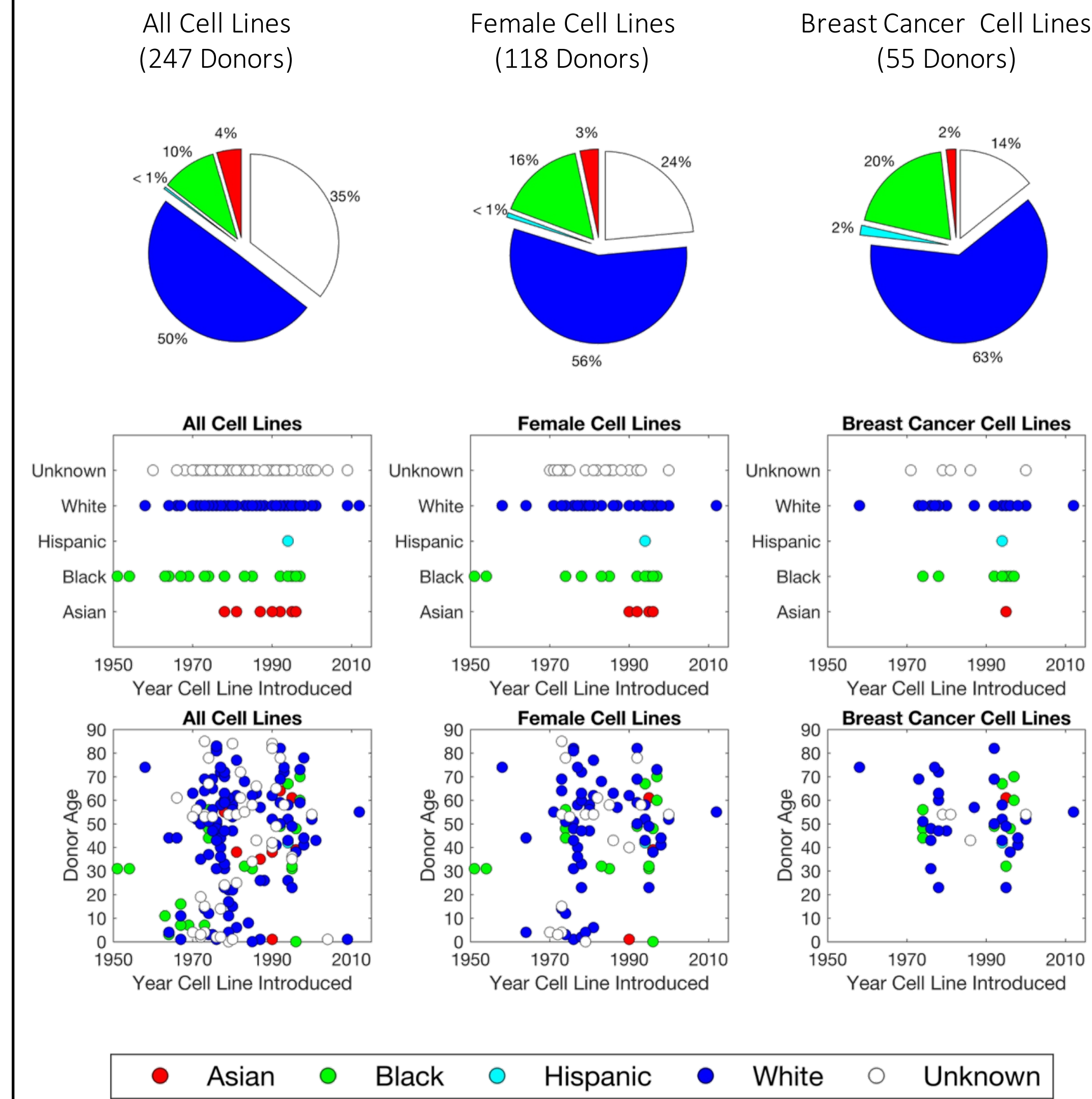
HOW TO CORRECT



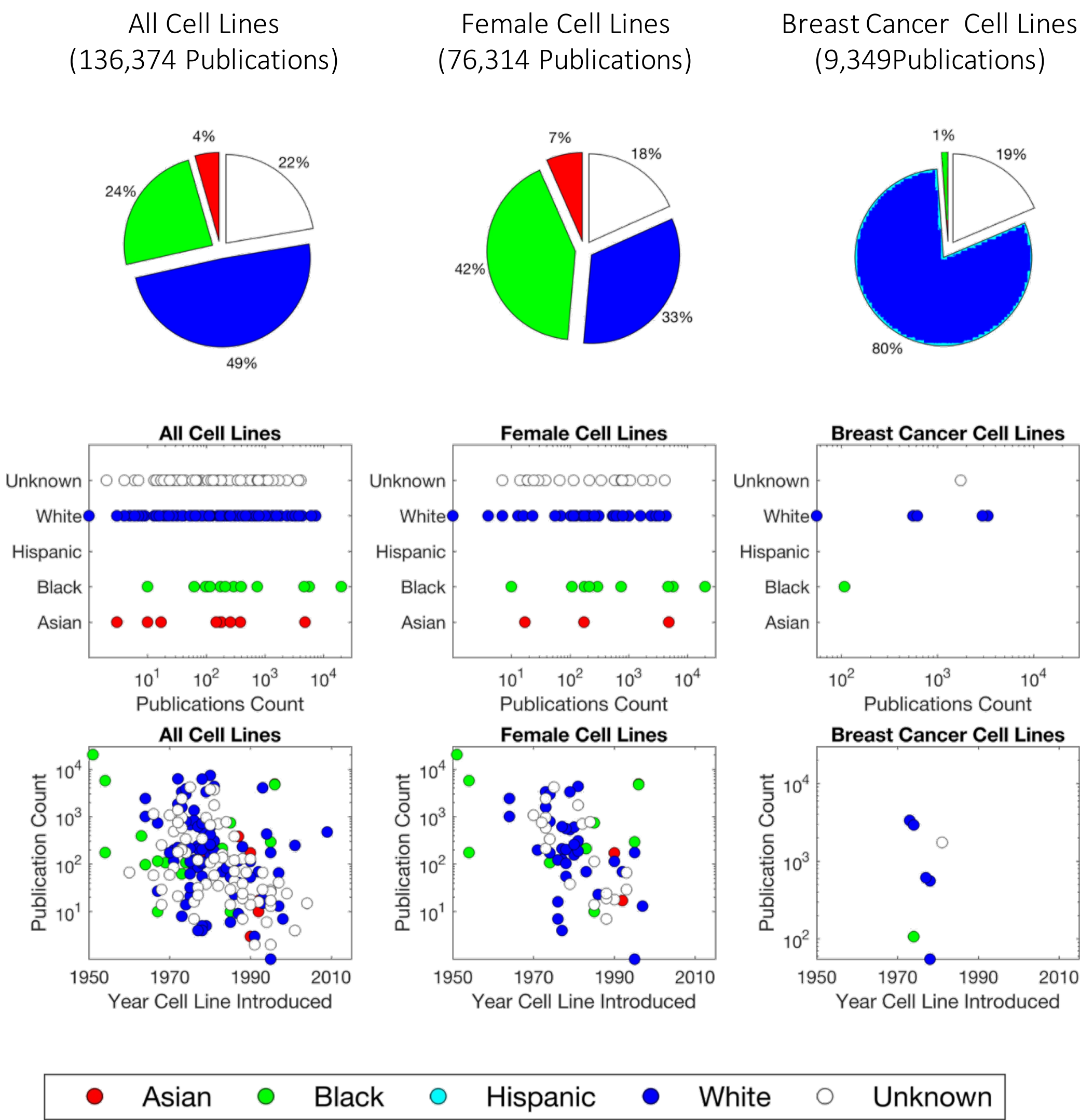
Q4. HOW ARE THE CELL LINES USED BY THE RESEARCH COMMUNITY?

Q5. HOW DOES PUBLICATION RECORD COMPARE TO DEMOGRAPHICS OF THE PATIENT POPULATION?

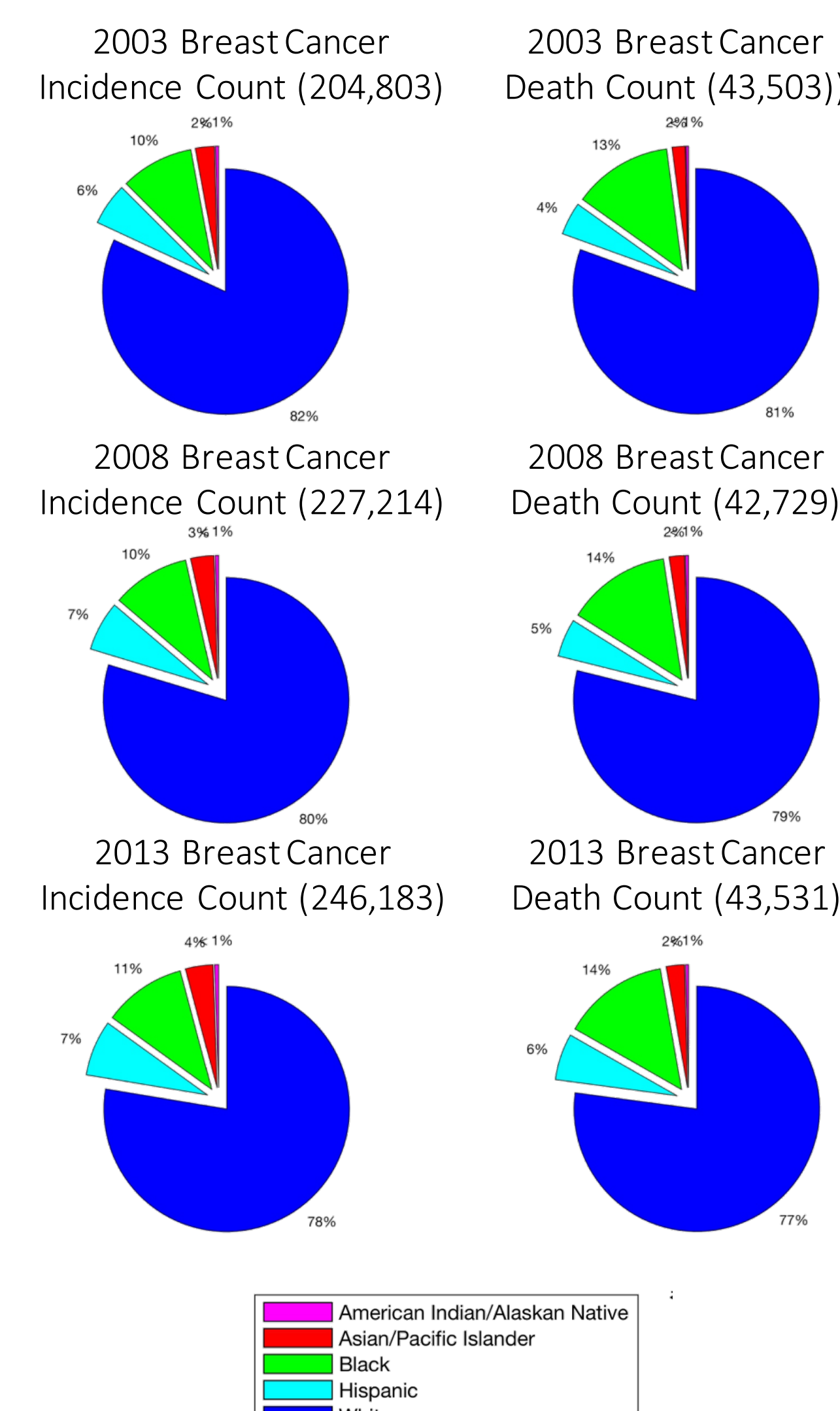
A3. COMMERCIALY AVIALBLE CELL LINES INCLUDE ASIAN, BLACK, HISPANIC, WHITE, AND UNSPECIFIED DONOR ETHNICITIES.



A4. CHARACTERIZATION OF DEMOGRAPHIC INCLUSIVENESS IN MEDLINE AND SCOPUS PUBLICATIONS.



A5. THE DEMOGRAPHIC REPRESENTATION OF THE PATIENT POPULATION IS NOT CONSISTENT WITH PUBLICATION RECORD.



CONCLUSION. THIS RETROSPECTIVE CHARACTERIZES THE EXISTING TOOL KIT FOR MEDICAL RESEARCHERS TO STUDY INTRINSIC FACTORS OF DISEASE, EXPOSING GAPS IN DEMOGRAPHIC REPRESENTATION, ALLOWING FOR DISCUSSION PER DEFICIENCIES IN TREATMENT EFFICACY ON A POPULATION-LEVEL. Acknowledgement. The research is supported by the National Research Foundation, Prime Minister's Office, Singapore, under its CREATE programme, Singapore-MIT Alliance for Research and Technology (SMART) Future Urban Mobility (FM) IRG. Prepared for Singapore-MIT Alliance for Research and Technology (SMART) Future Urban Mobility Symposium poster presentation on July 25-26, 2016 2016.