

# Who is using UK Biobank and what are they doing?

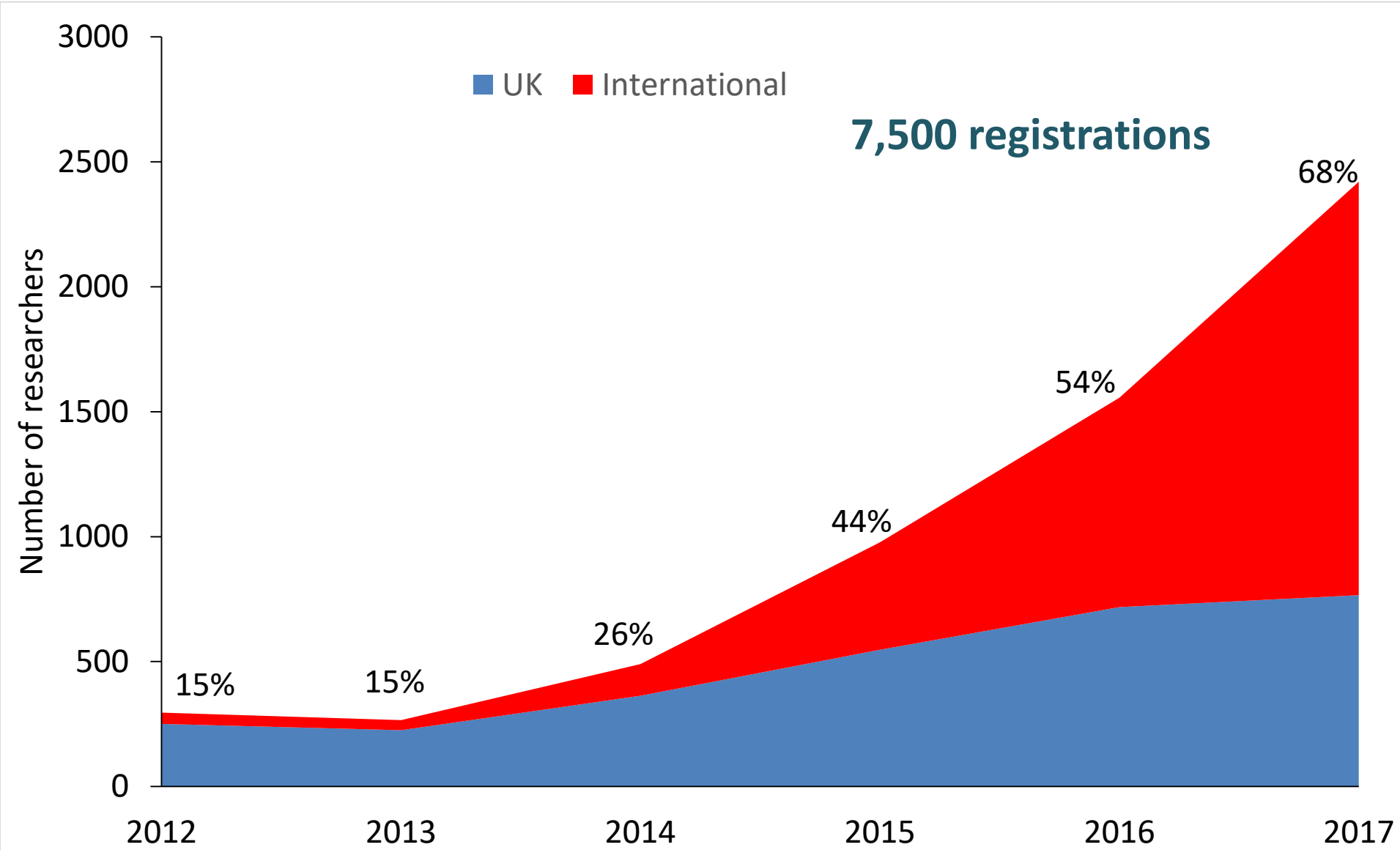
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- Open access resource, available for bona fide researchers to conduct health-related research this is in the public interest
- Available for use by academia and commercial companies, both in the UK and abroad
- No preferential or exclusive access to the resource
- Researchers are obliged to return their results to UK Biobank so they can be shared with others

- Research applications can:
  - be broad - do not need to focus on specific risk factors or health outcomes
  - involve a range of genotypes/phenotypes (i.e. GWAS/PheWAS)
  - be purely methodological

The main consideration is that the scope of the research project can be objectively defined, i.e. the intended research goals are clear

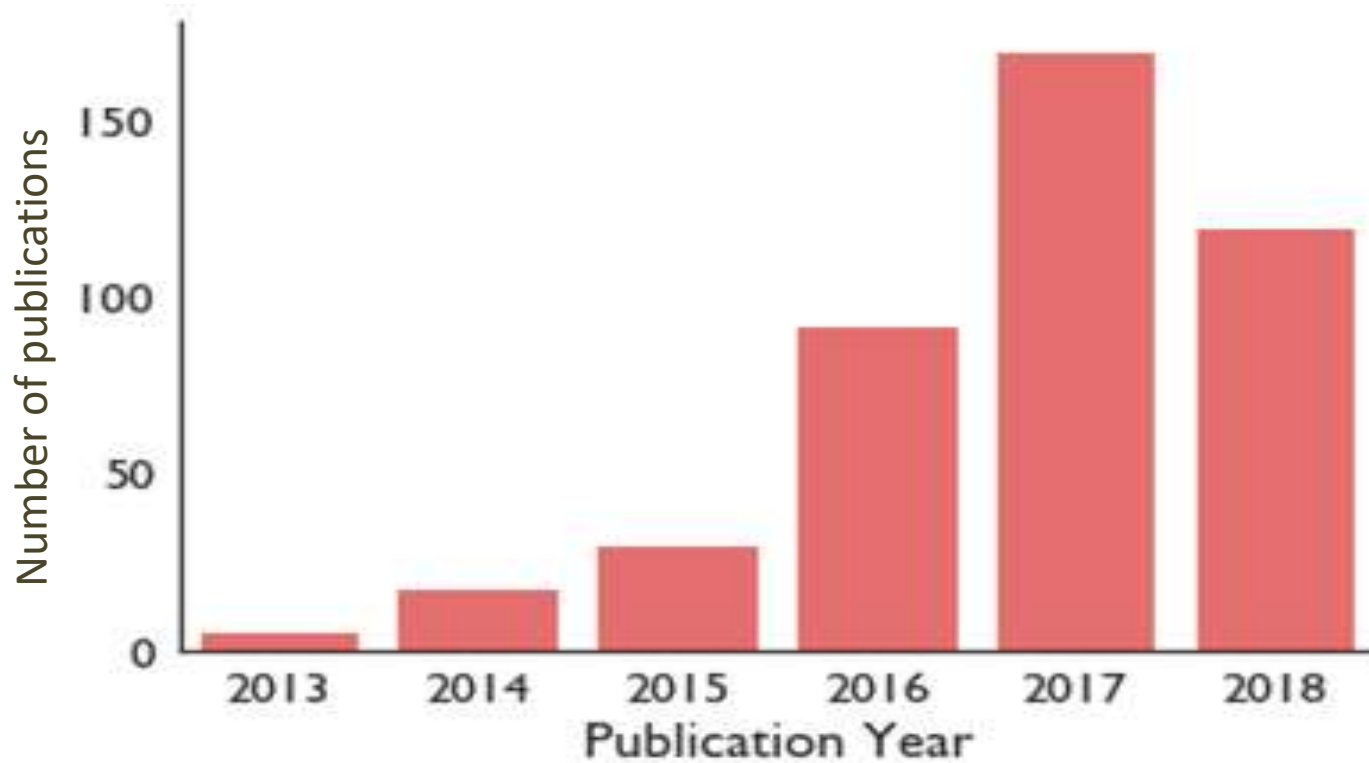
- Opened for access March 2012
- 7,500 approved registrations
- 1,400 applications submitted
  - 750 projects underway
- >400 publications
  - Projects cover a broad range of topics
  - See [www.ukbiobank.ac.uk/approved-research](http://www.ukbiobank.ac.uk/approved-research) for summaries



# Number of researchers worldwide



475 original research papers (>3,700 citations)



Author	Journal	Title	Citations
Global BMI Mortality Collaboration	Lancet (2016)	BMI and mortality (meta-analysis)	180
Okbay (SSGAC)	Nature (2016)	GWAS of education	159
Di Angelantonio (ERFC)	JAMA (2015)	Cardiometabolic multi-morbidity and mortality (meta-analysis)	105
Okbay (SSGAC)	Nat Genet (2016)	GWAS of subjective well-being and mental health	99
Miller (Oxford)	Nat Neurosci (2016)	Brain imaging	83
Ganna (Karolinska)	Lancet (2015)	Predictors of 5 year mortality	81
Wain (Leicester)	Lancet Resp Med (2015)	GWAS of smoking, lung function, and COPD (UK BiLEVE)	73
Dawes (Manchester)	PLoS ONE (2015)	Hearing loss and cognition	63
Hagenaars (Edinburgh)	Mol Psychiatry (2016)	Genetic factors in cognitive function and physical and mental health	62
Ntuk (Glasgow)	Diabetes Care (2014)	Ethnic-specific obesity cut-offs for diabetes risk	62



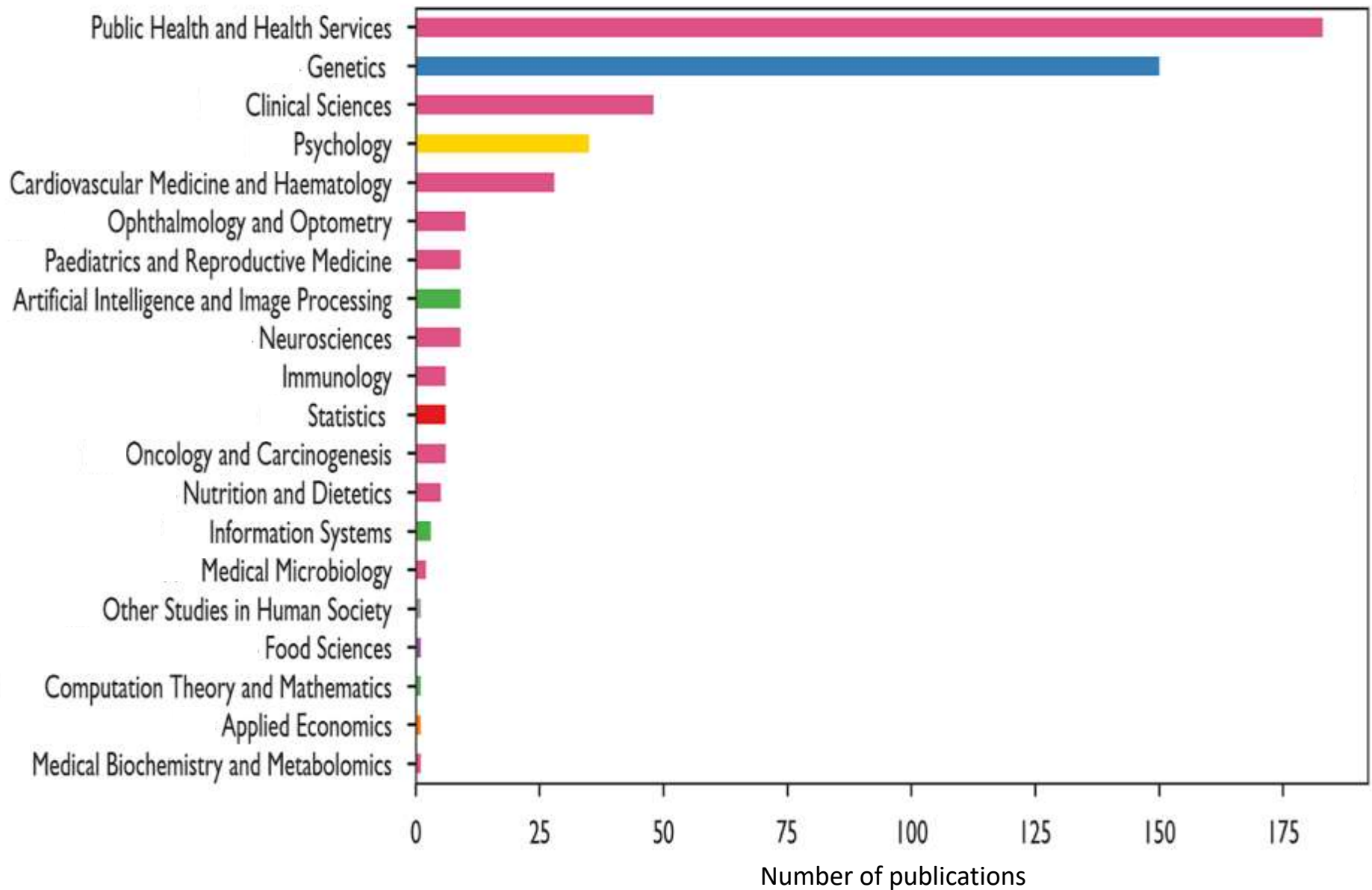
750 institutions have published using UK Biobank data

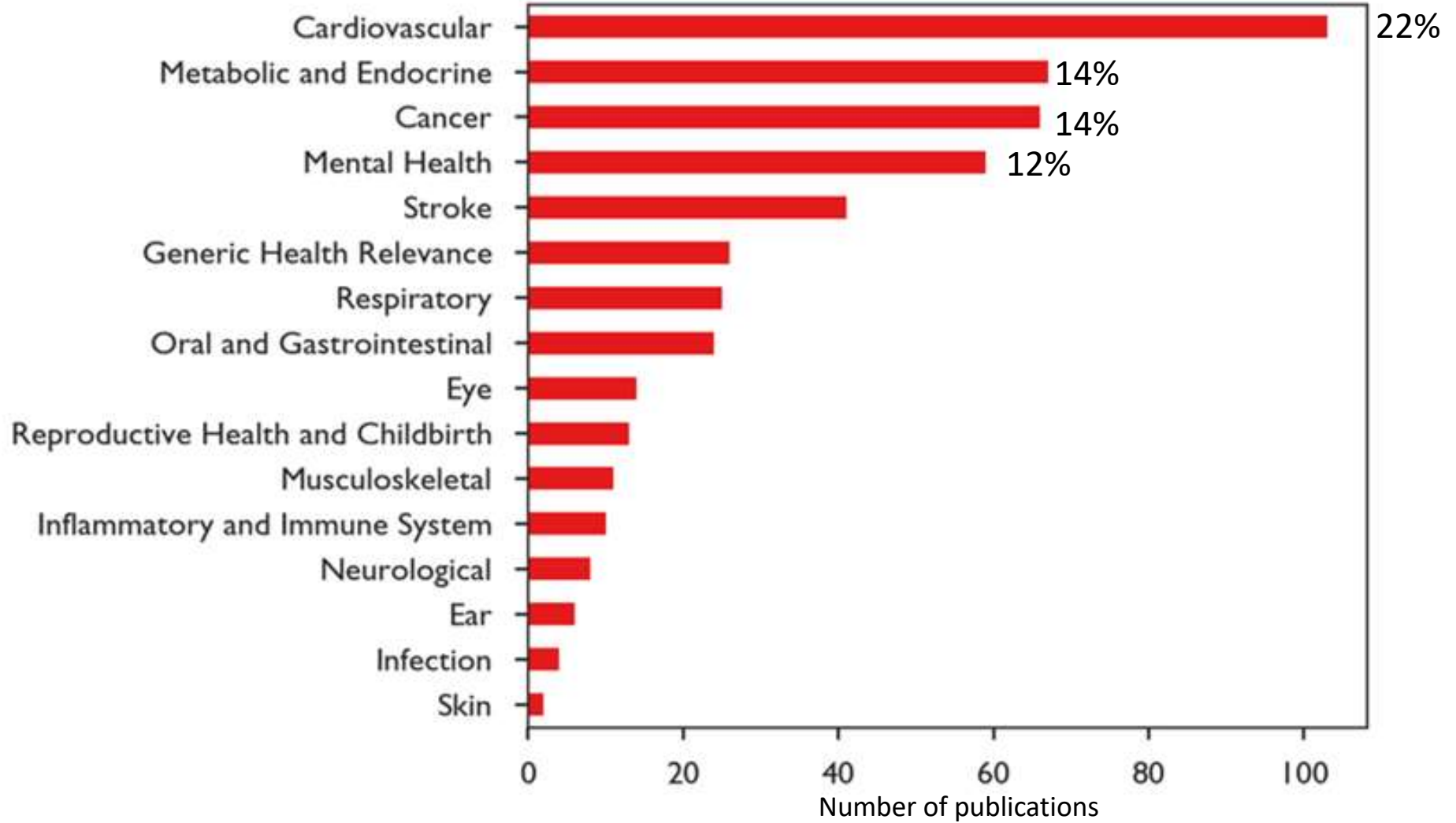
Name of Institution	Country	Number of publications
University of Oxford	UK	104
University of Edinburgh	UK	78
University of Glasgow	UK	66
Broad Institute	USA	50
Imperial College London	UK	49
University of Cambridge	UK	48
Harvard University	USA	47
University of Bristol	UK	47
King's College London	UK	44
University College London	UK	43

625 (out of 750) institutions are non-UK

Name	Country	Number of publications
Broad Institute	USA	50
Harvard University	USA	47
University of Queensland	Australia	35
Massachusetts General Hospital	USA	27
Erasmus University Medical Center	Netherlands	26
Karolinska Institute	Sweden	25
University of Copenhagen	Denmark	23
University Medical Center Groningen	Netherlands	21
Uppsala University	Sweden	21
Stanford University	USA	21







# What research is being done?

