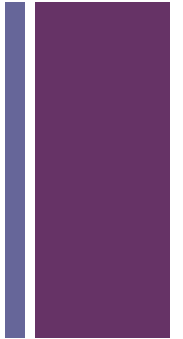


## Identifying additional samples ISGC expansion – Aiming for 100+K

Brad Worrall

# + As discussed yesterday...

- The success of discovery increases with increasing sample size (JR)
- Potential advantages of cosmopolitan and tranethnic investigation (GP)
- Need to increase representation from Africa, Asia, and South America



# + Other “known” studies with DNA

## Not currently active N=10,000+

Study ID	PI/contact	# cases not in SiGN	Study ID	PI/contact	# cases not in SiGN
<b>Parelsnoer Project</b>	Jaap Kappelle/ Ynte Ruigrok	3000	<b>MESA</b>	Michele Sale/ Stephen Rich	120
<b>Aberdeen</b>	Mary J. MacLeod	600	<b>Dublin</b>	Peter Kelly	?
<b>Taiwan Stroke Study</b>	Jerry Rotter/ Ida Chen	3000	<b>Physicians' Health</b>	Zee / Ridker	259
<b>TexGen</b>	Fornage/ Milewicz	550	<b>Lausanne</b>	Christian Wider	?
<b>VITATOPS</b>	Graeme Hankey	800	<b>UT Houston</b>	Fornage/ Grotta	?
<b>BASIC</b>	Lynda Lisbeth	313	<b>Chronic Renal Indsufficiency Cohort (CRIC)</b>	Chronic Renal Indsufficiency Cohort (CRIC)	?
<b>PROFESS</b>	Ralph Sacco	1200	<b>Stroke Disparities Program</b>	Chelsea Kidwell/ Amy Hsui	?
<b>Jackson Heart Study</b>	Herman Taylor	100	<b>Women's health study and WHGS</b>	Kathy Rexrode	473



# METASTROKE: Not currently active in ISGC

Study ID	PI/contact	# cases not in SiGN	Study ID	PI/contact	# cases not in SiGN
<b>ARIC</b>	Myriam Fornage	385	<b>BSS</b>	Massimo Pandolfo	225
<b>Perth</b>	Chris Levi/Graeme Hankey	400	<b>Copenhagen</b>	Børge G Nordestgaard	730
<b>Adelaide</b>	Chris Levi/Simon Koblar	300	<b>ESS</b>	Cathie Sudlow	276
<b>CHS</b>	Will Longstreth	454	<b>Glasgow</b>	Matthew Walters	675
<b>deCODE</b>	Solveig Grétarsdottir	2391	<b>Go-Darts</b>	Colin N A Palmer	737
<b>FHS</b>	Suhda Seshadri	171	<b>Interstroke</b>	Guillaume Paré	872
<b>HPS</b>	Jemma Hopewell	578	<b>Munster</b>	Andreas Gschwendtner	1232
<b>HVH</b>	Bruce Psaty	566	<b>Portugal - Oeiras</b>	Jose Ferro	534
<b>Milano</b>	Giorgio B Boncoraglio	372	<b>RACE</b>	Danish Saleheen	1322
<b>Rotterdam</b>	M Arfan Ikram	367	<b>SMART</b>	Ale Algra	632
<b>Barcelona</b>	Joan Montaner	700	<b>WHI</b>	Alex Reiner	322



# COMPASS: Cases=1156

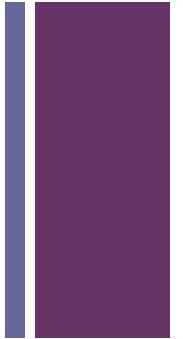
# Controls=15432



Study ID	Contact	Cases not in SiGN	Controls
ARIC	Myriam Fornage	500	2241
Health ABC	YongMei Liu	128	1100
WHI-SHARE	Cara Carty	199	8300
CHS	Josh Bis	79	641
SUGAR/SIGNET / REGARDS	Michele Sale	250	2,250

All African-American; Some have TOAST; Some not subtyped

# + Literature review



- Search terms (ischemic or ischaemic) and stroke and (genetic or genomic or genome or genetics or SNP or polymorphism) NOT (mice or mouse or animal or zebrafish or rats)
- I got just over 2200 articles and I reviewed the first ~400 articles identifying 210 articles
- Raw numbers 230,000 cases described
- 27 Meta-analyses account for 142,587
- Non-meta-analysis and non-overlapping 78,611

# + Breakdown by country

Country	Total	Unique	Meta-analysis	Country	Total	Unique	Meta-analysis
Algeria	1	1	0	Germany	9	9	0
Armenia	2	1	0	Greece	3	2	0
Australia	1	1	0	India	10	4	0
Brazil	1	1	0	Iran	1	1	0
Canada	1	1	0	Iraq	1	1	0
China	99	72	22	Israel	1	1	0
Croatia	1	1	0	Italy	4	4	0
Denmark	5	5	0	Japan	4	4	0
Finland	1	1	0	Korea	8	8	0

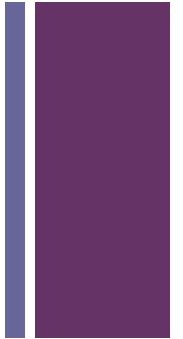


# Breakdown by country (con't)



Country	Total	Unique	Meta-analysis	Country	Total	Unique	Meta-analysi
Morocco	1	0	1	Turkey	3	3	0
Poland	4	2	0	Ukraine	1	1	0
Russia	2	2	0	USA	8	8	0
Spain	3	2	1	Zambia	1	1	0
Sweden	2	2	0				
Switzerland	1	1	0				
Taiwan	5	5	0				
Thailand	1	1	0				
Tunisia	4	4	0				

# + Next steps - Brainstorming



- Individuals reach out to “known” groups not currently active
- Need to prioritize outreach...to target high yield groups
- Individuals reach out to groups not currently active identified from literature (personalized contact best)
- ISGC outreach committee to draft an invitation letter to send to groups identified from literature

**The outreach committee needs you!**