



FARGEN

FAROE GENOME PROJECT

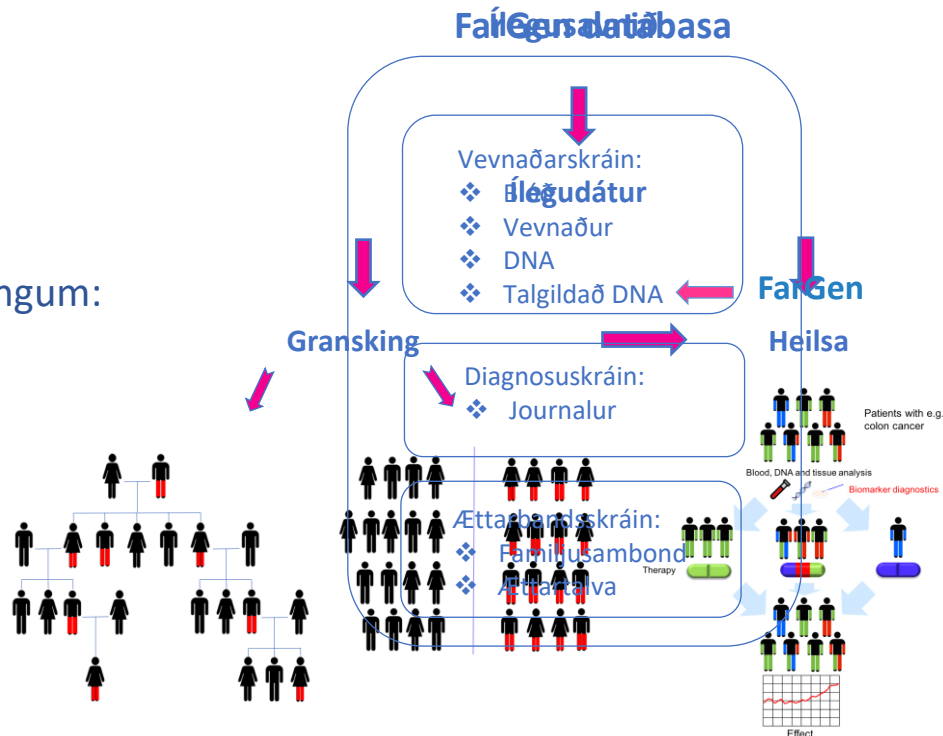
Eitt gullnám fyri heilsugransking

Vísindavøka 2019

Noomi Oddmarsdóttir Gregersen
Project Manager, PhD

Hvat er FarGen?

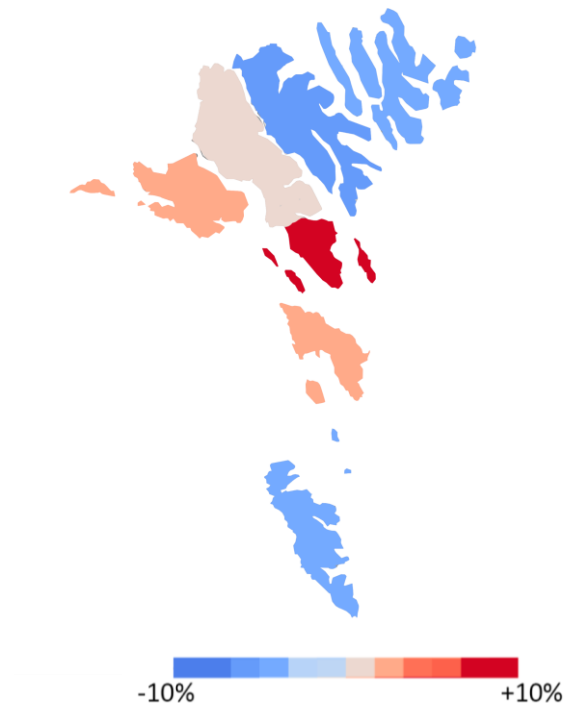
- Ein verkætlan hjá Ílegusavninum
- Ein dátugrunnur við ílegudátum hjá føroyingum:
 - Gransking
 - Tilvísingargenom
 - Persónlagað medisín



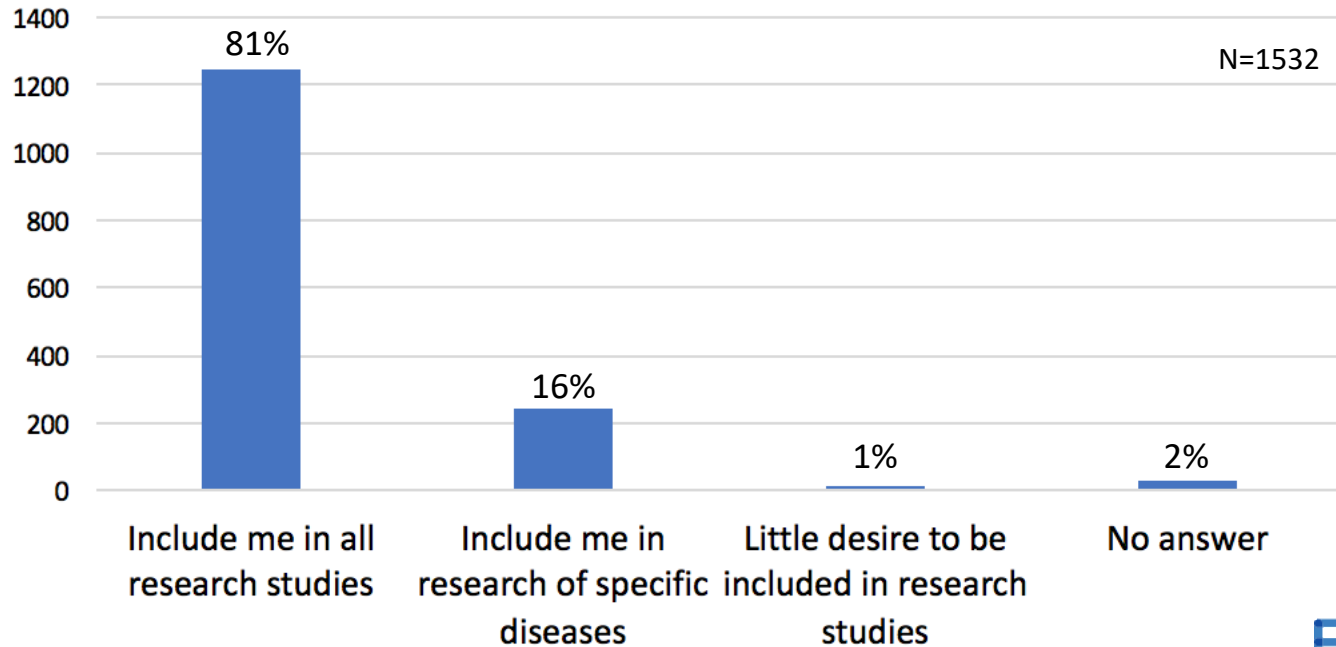


Áhugin at luttaka í FarGen

- 2000 fólk hava teknað seg til FarGen
- 1532 blóðroyndir tiknar
- 62% kvinnur og 38% menn

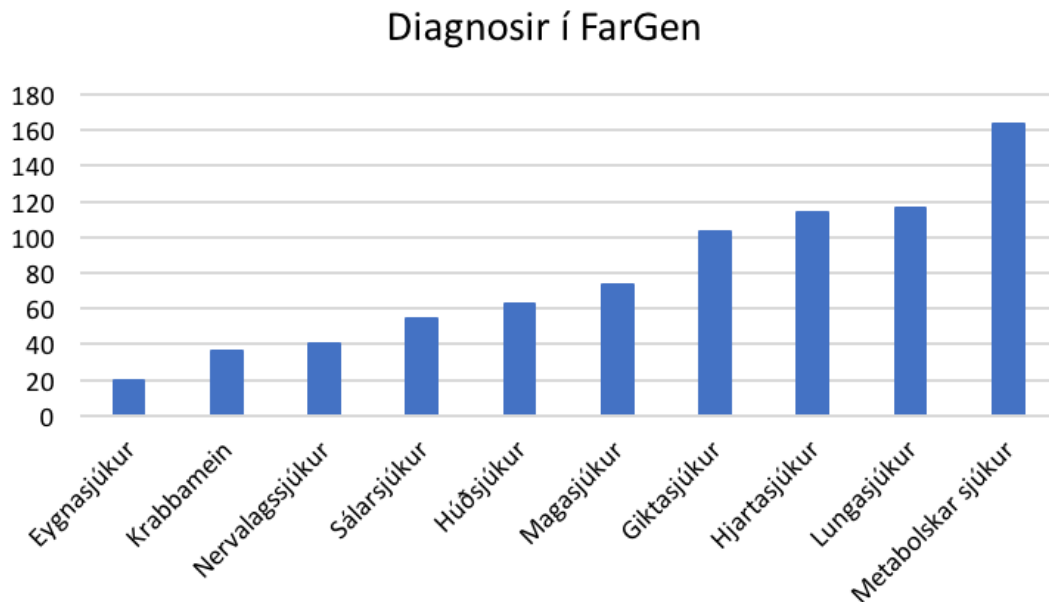


Áhugin at luttaka í gransking

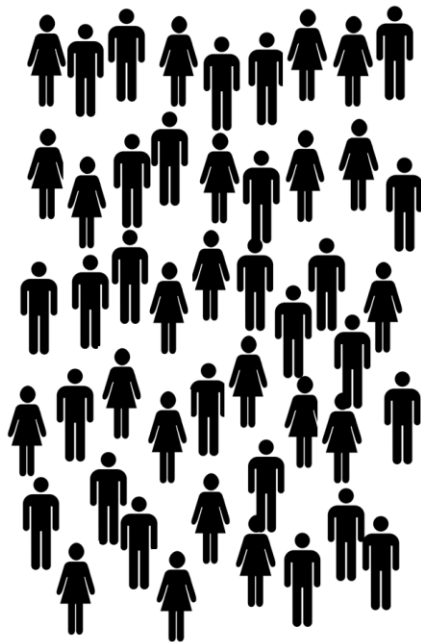


Heilsustatus av FarGen-luttakarum

- Sjálvrapporteraður heilsustatus
- Frísk/sjúk lutfall er 1:1
- Nógvar møguligar verkætlanir



FarGen → Gransking



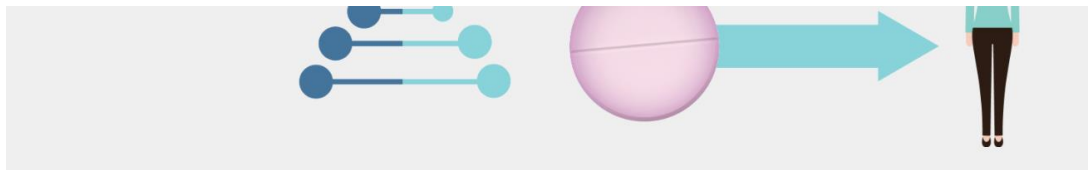
HBOC



ADHD

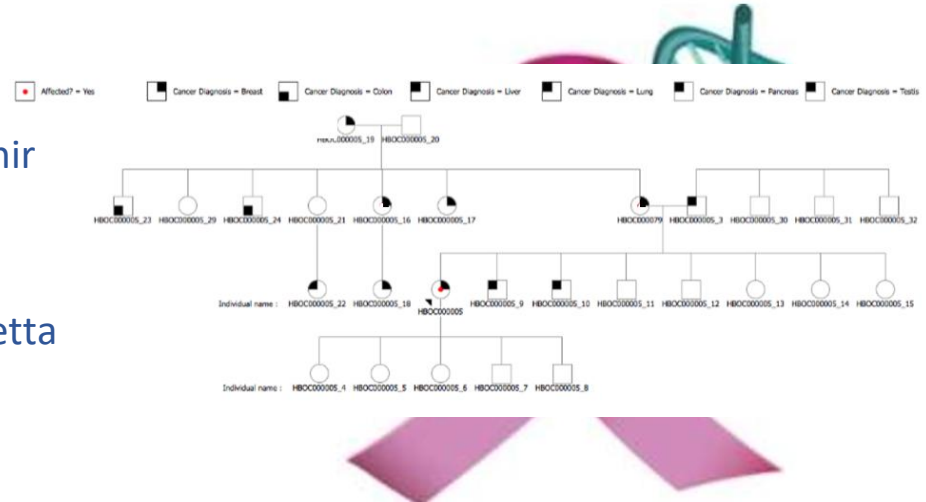


IBD



Bróstkrabbi í Føroyum

- BRCA negativ úrslit
- Okkara grannalond hava founder mutatióinir
 - Noreg, Svøriki, Ísland (Janavičius 2010)
- Fólkafrøðiliga søgan hjá føroyingum ger hetta áhugavert



Samband millum ílegur og heilivágsvirknað

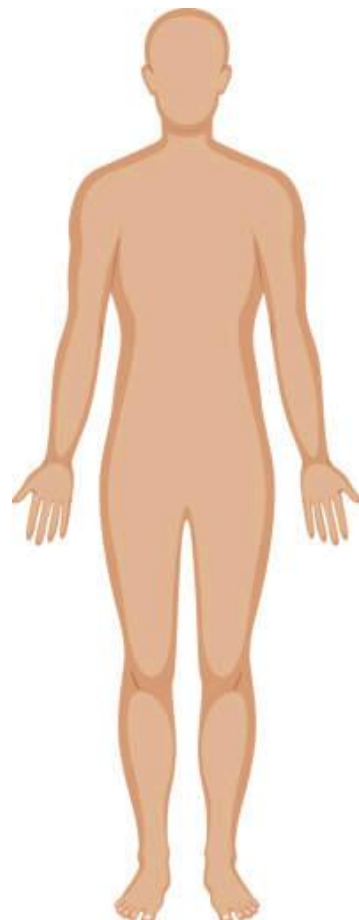
- Fólk kunna hava ymiskan virknað av heilivági
- Heilivágsvirknaðurin kann vera genetiskt treytaður
- Ber til at siga frammanundan, hvussu ein heiluvágur fer at virka?
- 43 sambond millum ílegu og heilivág í evropiskum leiðreglum
- Mett verður, at 95% av okkum hava minst eitt slíkt samband

Tunglyndi  38 %			
Medisin klassi	# Medisin	# Ílega	Ílega
Pínustillandi	3	1	CYP2D6
Smittuverja	3	3	CYP2B6, CYP2C19, HLA B*5701
Hjartamedisin	2	1	CYP2D6
Krabba	5	3	CYP2D6, DPD, UGT1A1
Blóðtinnandi	4	3	CYP2C19, CYP2C9, VKORC1
Antidepressiv	5	2	CYP2D6, CYP2C19
Antidepressiv (TCA)	5	2	CYP2D6, CYP2C19
Antieplepsi	2	2	CYP2C9, HLA B*5701
Blóðtrýst	1	1	CYP2D6
Antipsykotiskt	5	2	CYP2D6, CYP1A2
Kolesterol	2	1	SLO1B1
Immunverja	4	2	CYP3A5, TPMT
Onnur	2	2	CYP2D6, FVL
43			

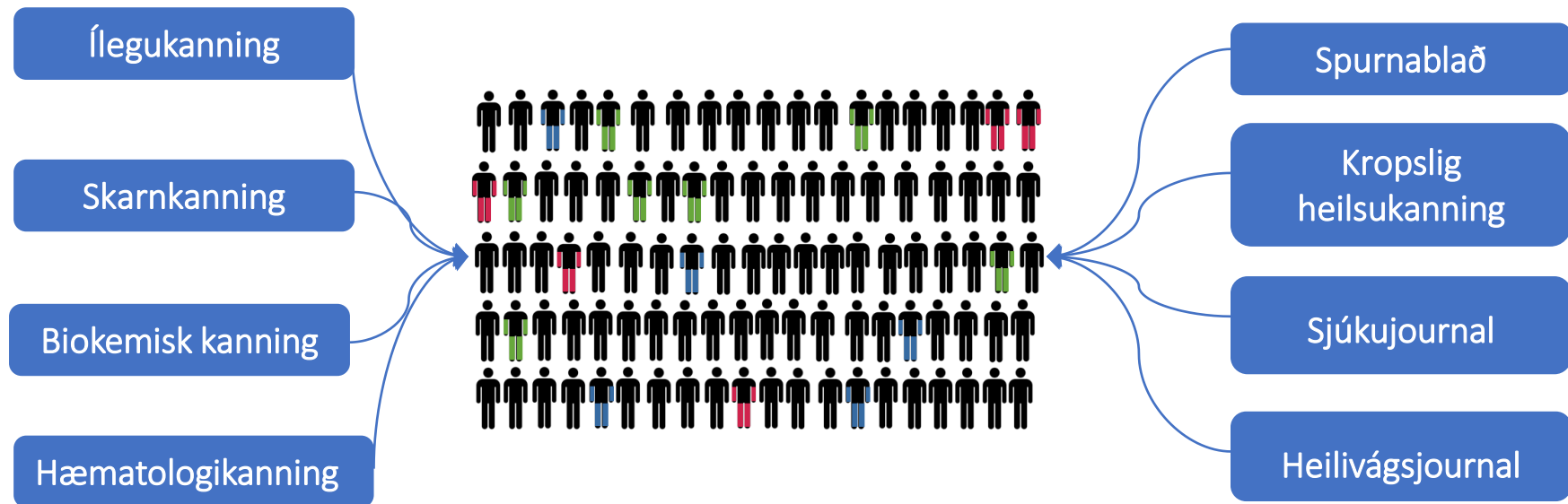
NEUGA.FDA: Paving the way for personalized medicine, Oktober 2013

FarGen-Health

- Vit eru ikki “bara” okkara ílegur
- Eitt samanspæl millum ílegur og alt annað
- Tí gera vit FarGen-Health

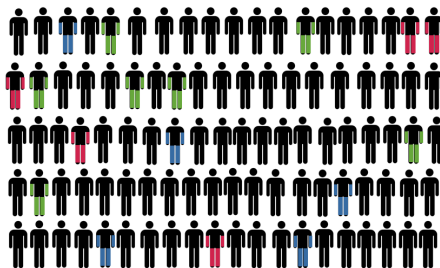


FarGen-Health – 5000 persónar



Heilsukanningar við fleiri faktorum

Tilvísingargenom



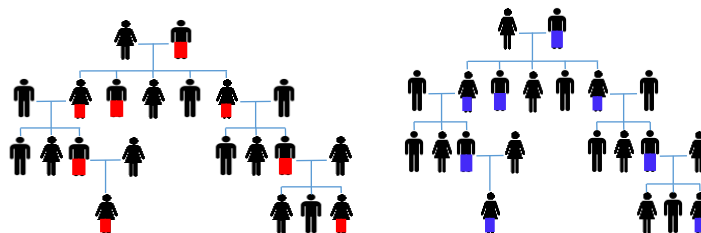
Vandi fyrir sjúku

Founder mutatióinir



Ílegur/heilivágur

Vanligir genetiskir
variantar



Ílegur/umhvørvið

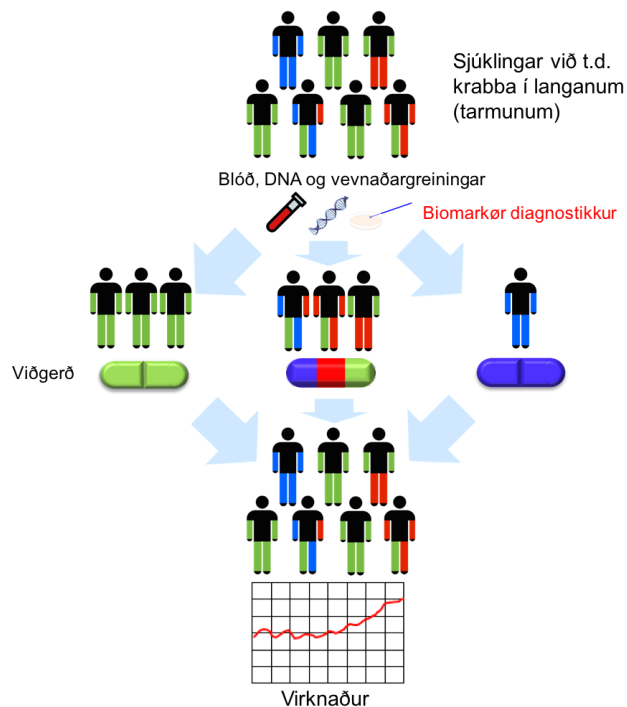
Persónlagað medisín

Sjúkuscreening

Polygenic risk skoring

Prediktivir biomarkørar

Public Health



Finna sjúkur tíðliga

Viðgerðaramboð

Genetisk ráðgeving

Betri sjúkuútlit



FarGen work-group



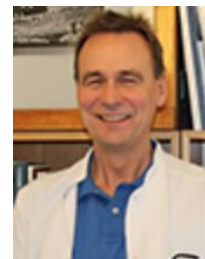
Guðrið Andorsdóttir
Director



Noomi O. Gregersen
Project manager



Katrin D. Apol
Information coordinator



Bjarni á Steig
Clinical leader



Pál Weihe
Scientific leader



Leivur N. Lydersen
Lab manager



Ólavur Mortensen
Bioinformatician



Nina Djurhuus
BioLab-technician



Gunnrið Jóanesarson
BioLab-technician



Súnhild Kass
Lab-technician student

