

# **Estonian Genome Project Current Status**

**P3G**

December 14-15, 2003

Manchester

Krista Kruuv

Chairman of the Board



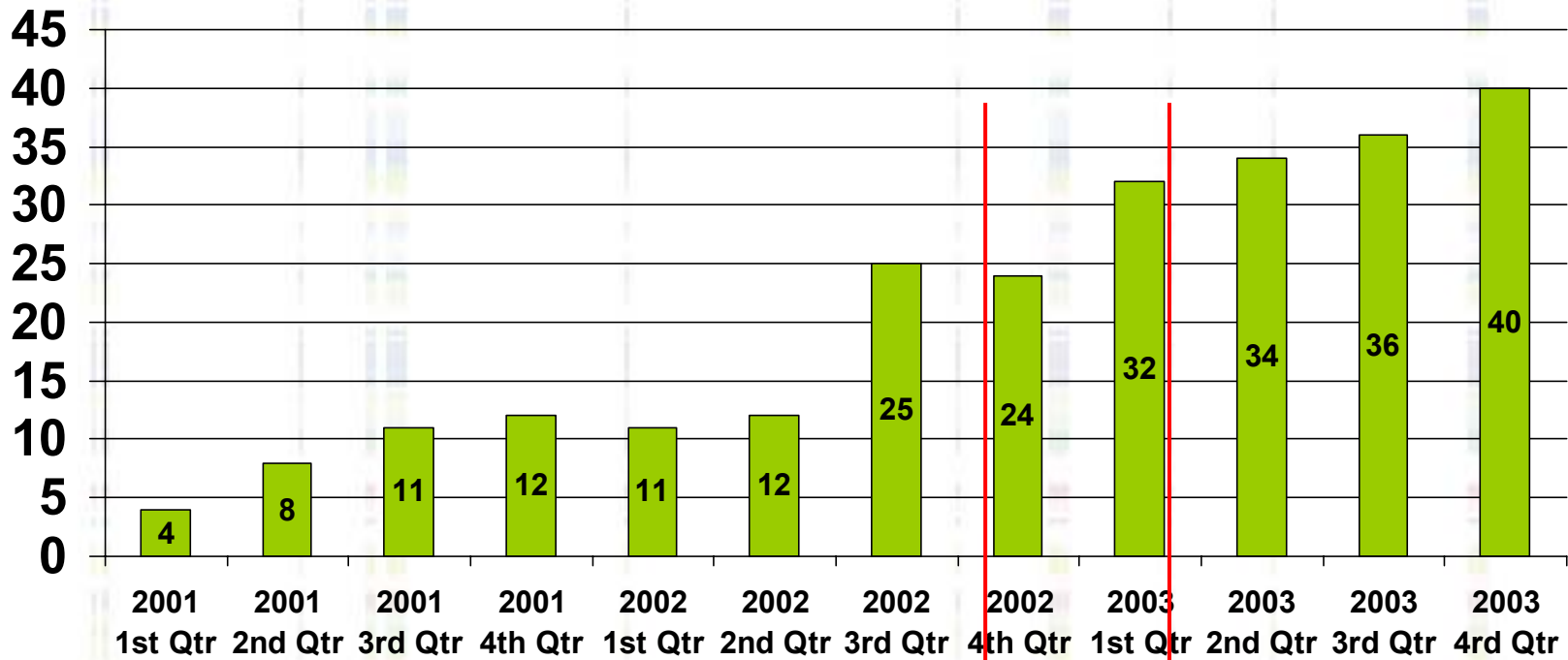
estonian genome project

# Current status

- Total number of gene donors is 9000
- 30% of health data monitored (GCP)
- 320 physicians - data collectors recruited
- 100,000 samples within the next three years
- Improvement and expansion of infrastructure
- ISO 9001:2000 certification in September 2003
- Continual public support
- Data can be issued for scientific research in 2004
- Scientific Advisory Board meeting October 2003



# Staff

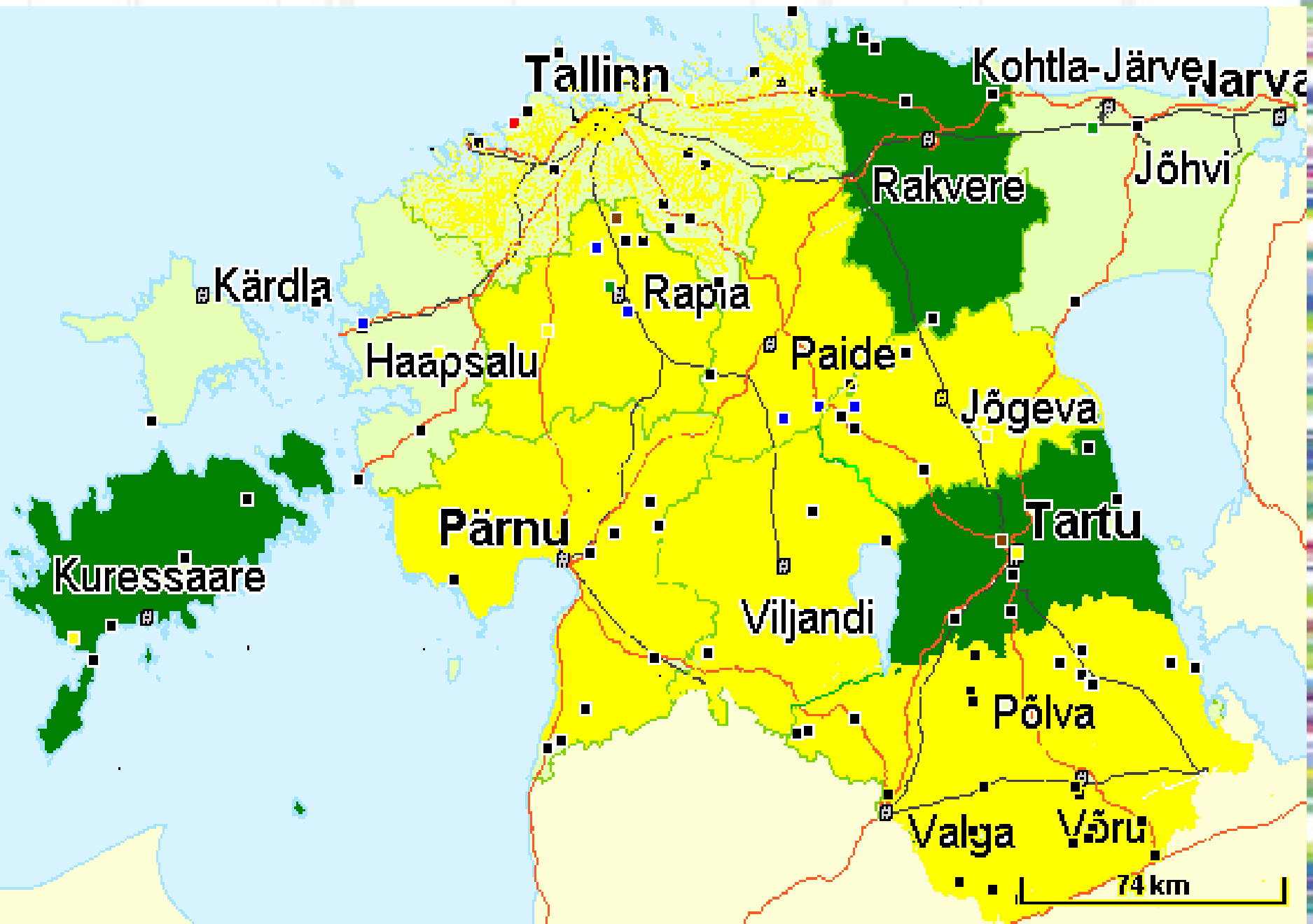


**Pilot Project**

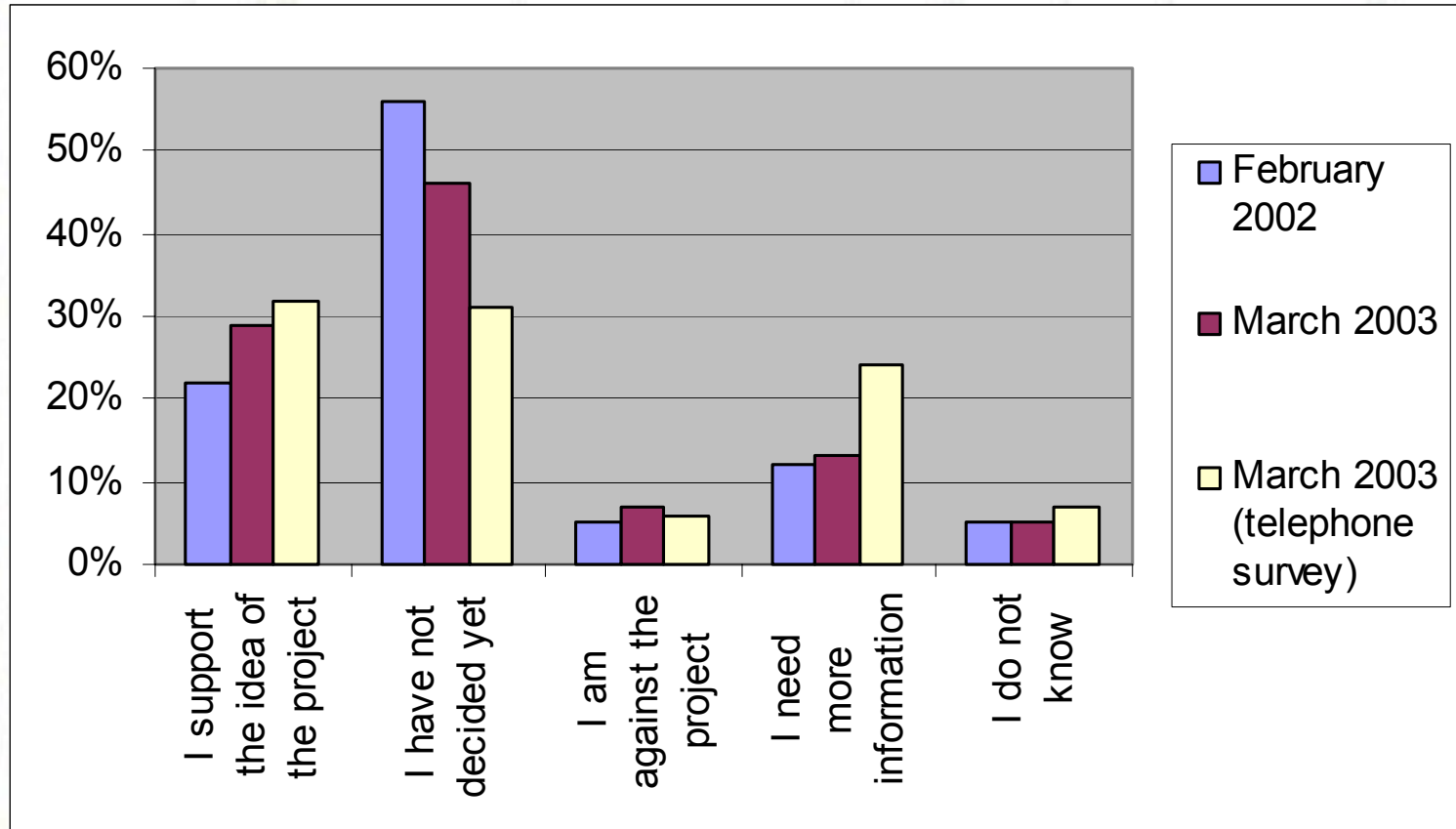
**Main Project**



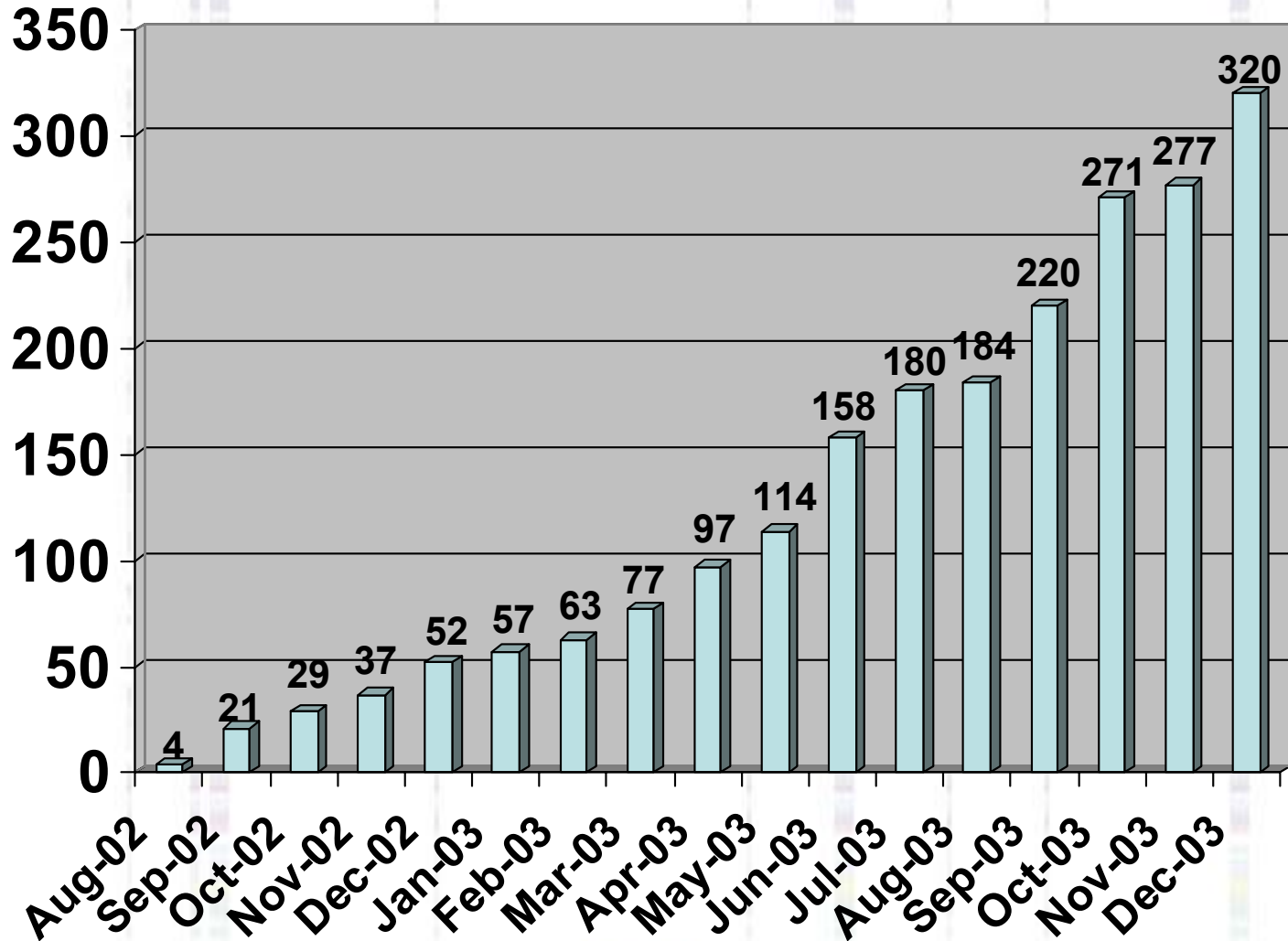
# Involved regions



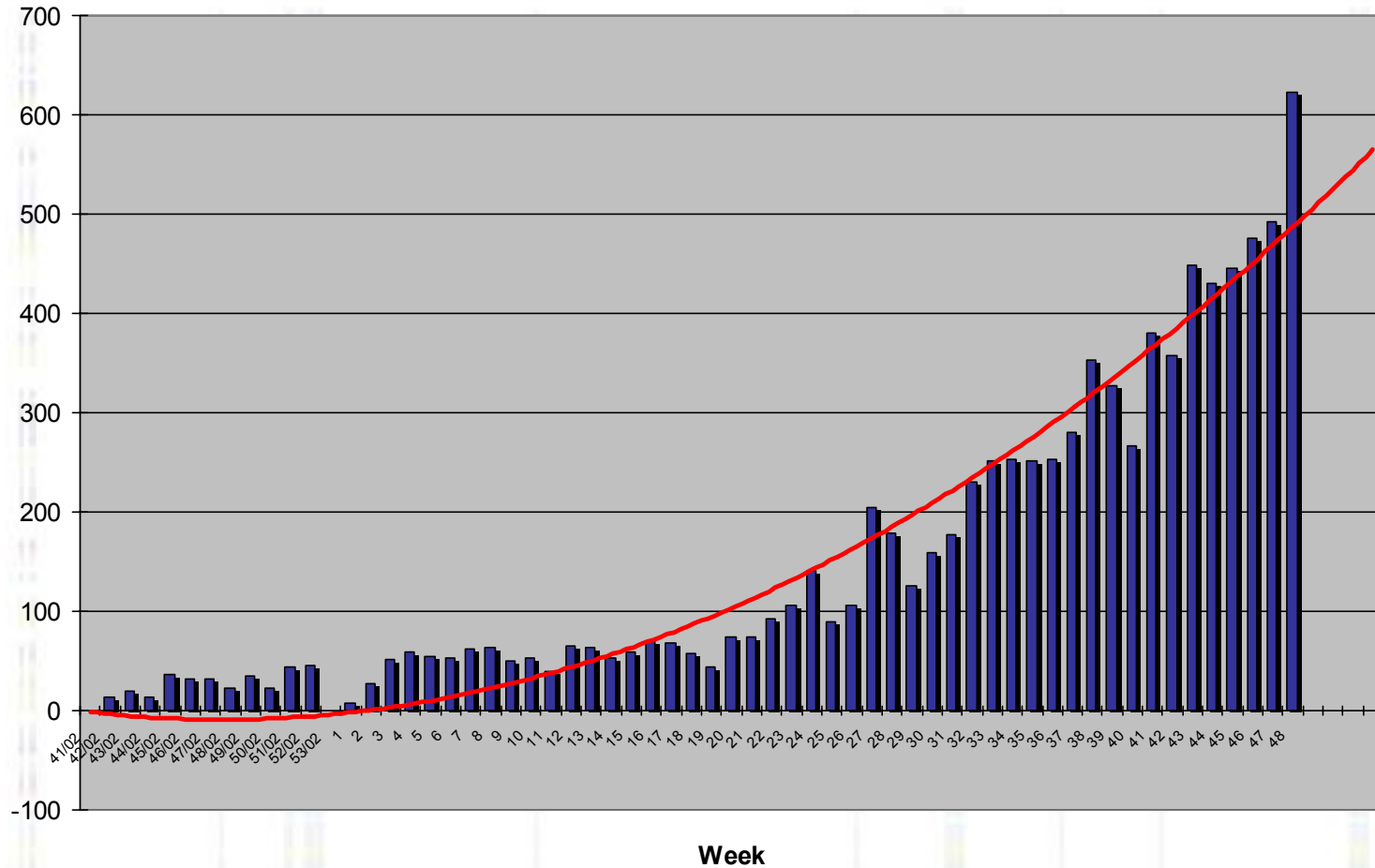
# Attitude towards the Estonian Genome Project



# Physicians – data collectors



# Samples collected weekly Oct 2002 – Nov 2003



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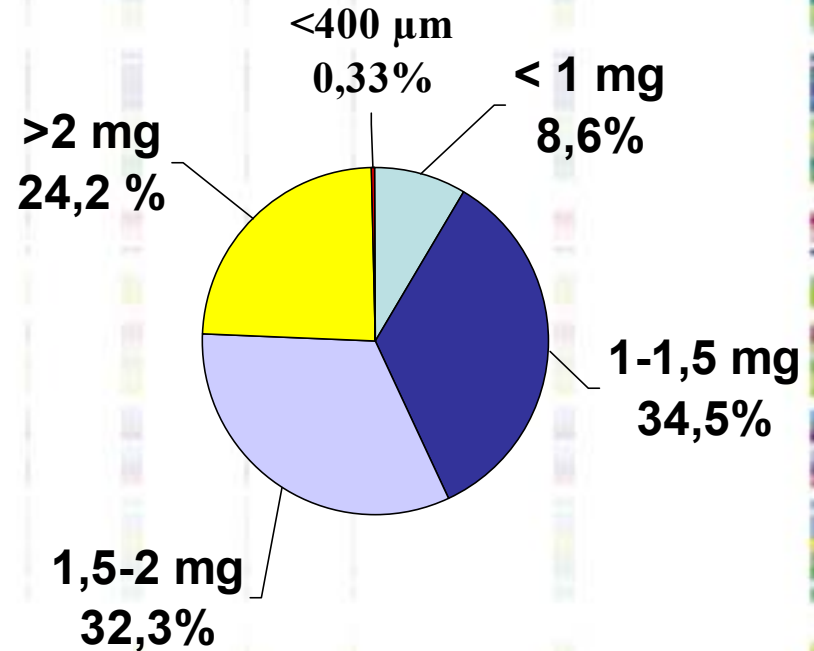
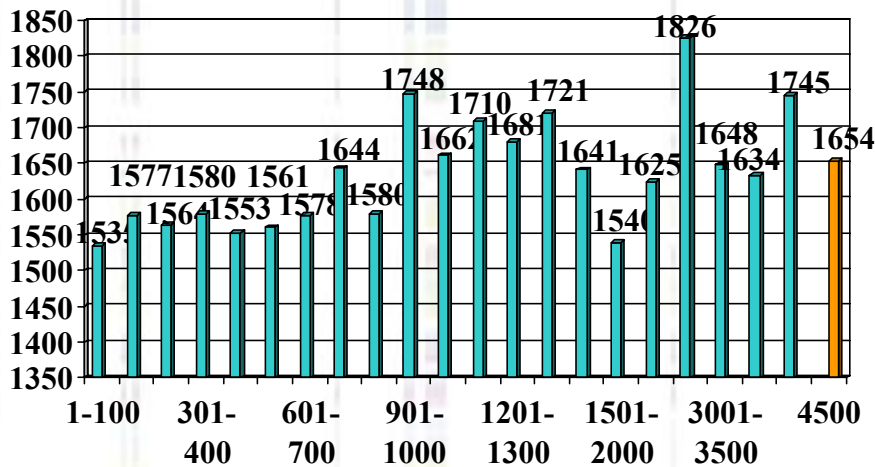
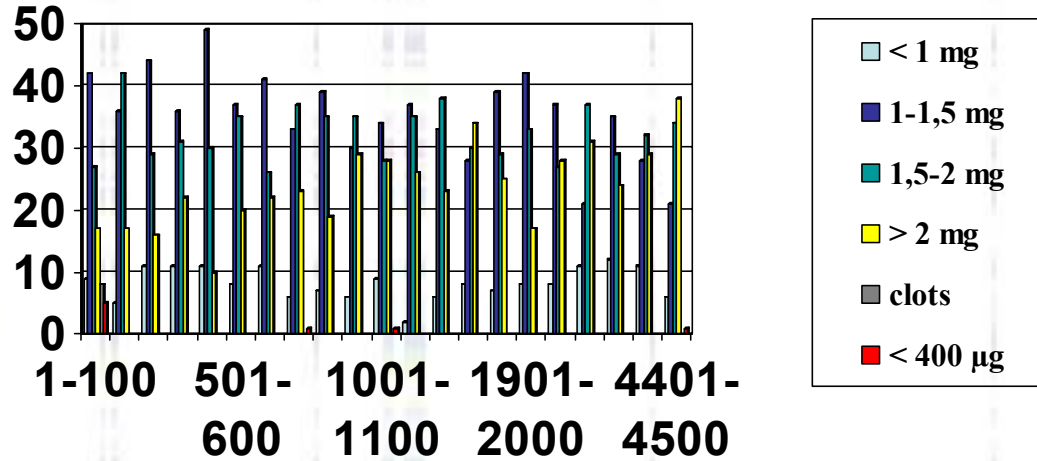
# 50 ml blood sample

- Processing starts in 48 hours
- Salting out method
- DNA ~ 1,7 mg - 14 CBS straws (110 µg each)
- Plasma ~ 3.5 ml - 7 CBS straws
- Buffy coat ~ 0.8 ml - 2 CBS straws
- Storage in liquid nitrogen

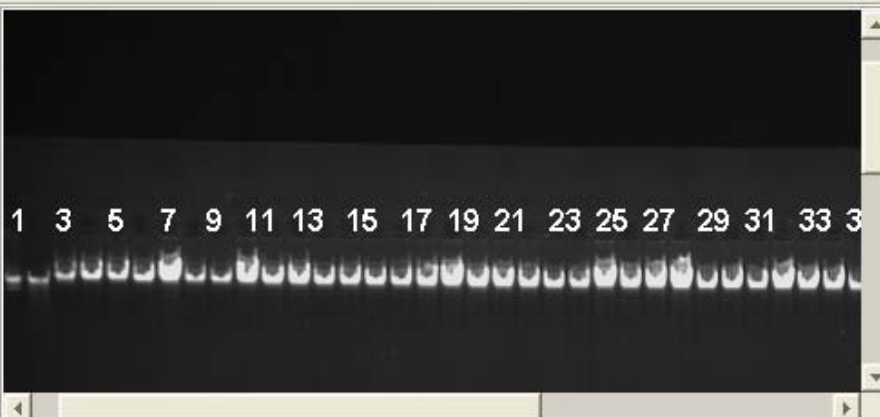
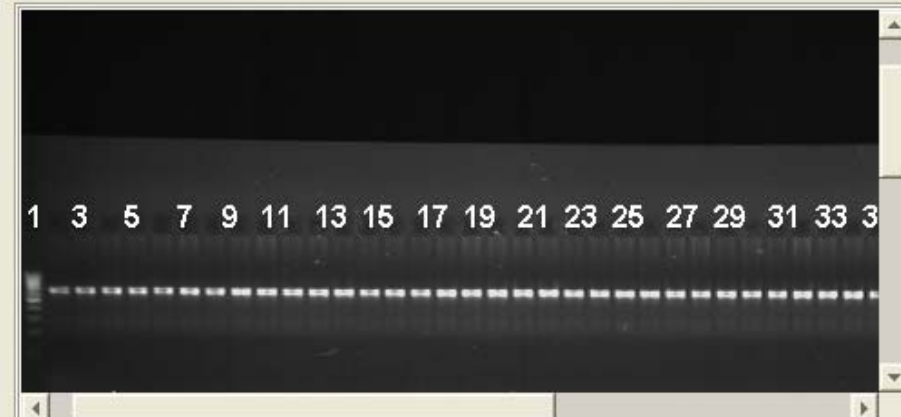




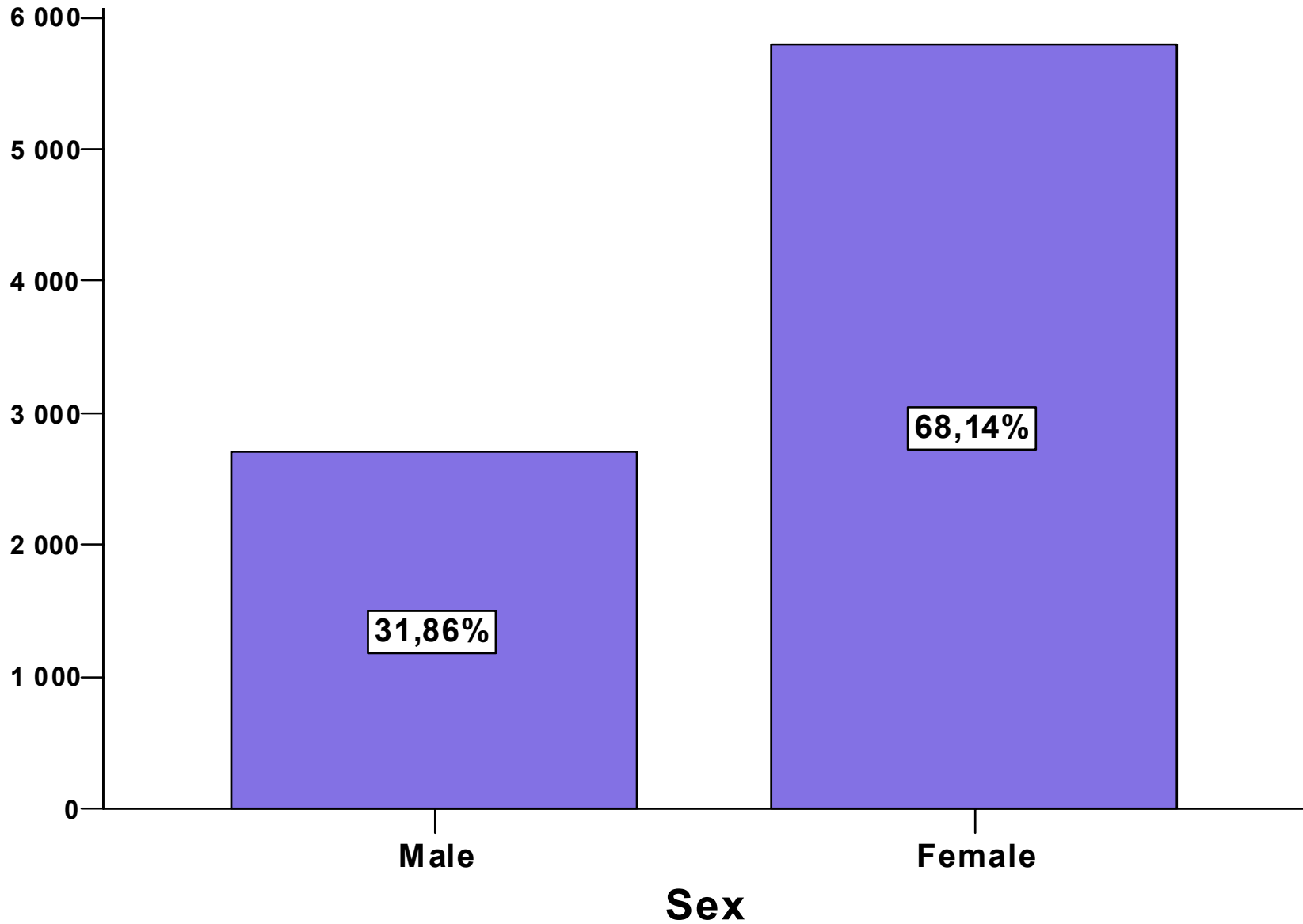
# Results of DNA yields (4500 samples)



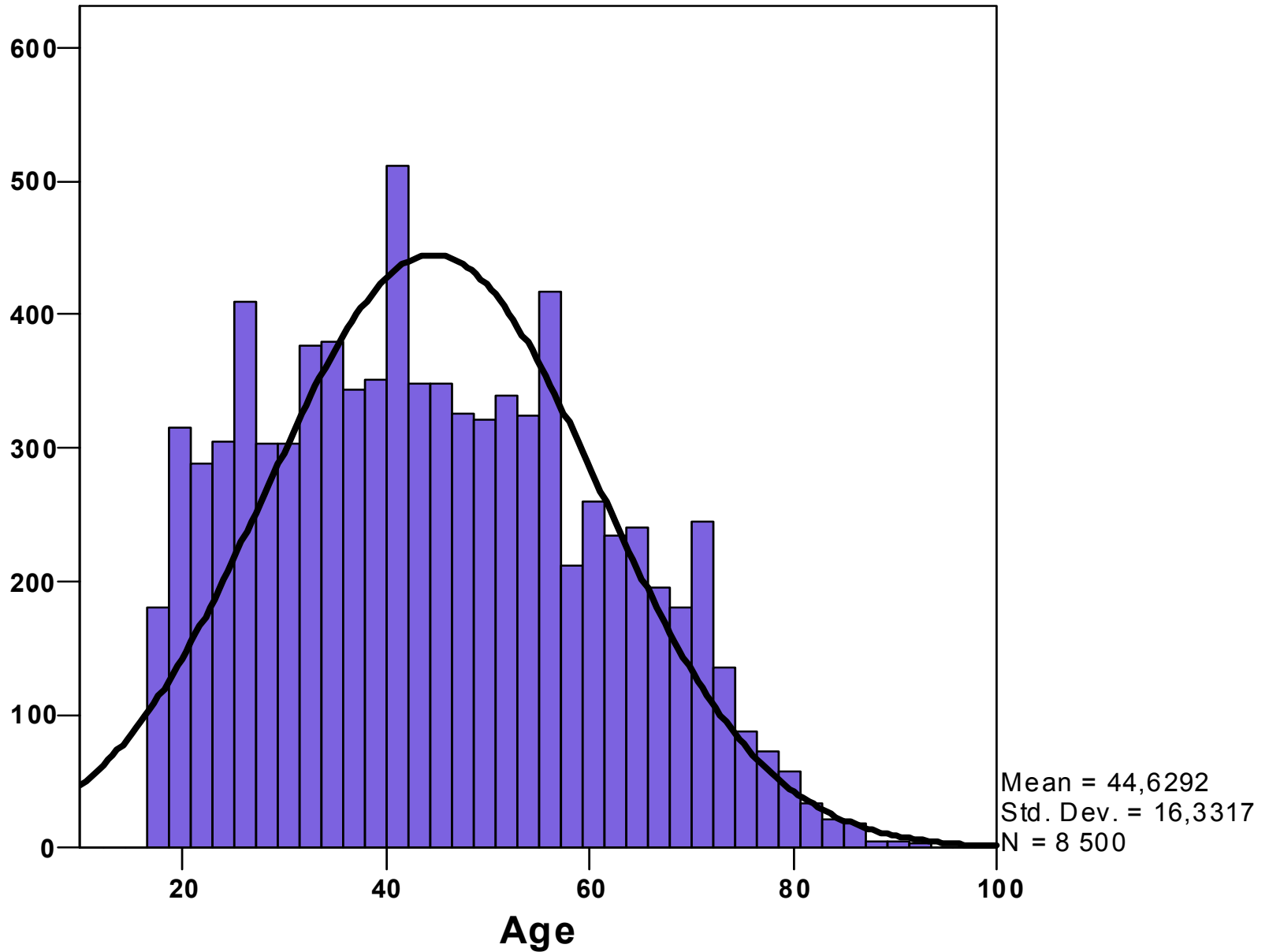
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Teisene код:	99011	DNA konsentratsioon:
Võtmisaeg:	12.08.2003 08:45:43	DNA puhtusaste:
Töötlemise algusaeg:	13.08.2003 15:57:31	Töötlemise lõppaeg:
Plasma riknemise aeg:	<input type="text"/>	Plasma riknemise etapp:
Vererakkude riknemise aeg:	<input type="text"/>	Vererakkude riknemise etapp:
DNA riknemise aeg:	<input type="text"/>	DNA riknemise etapp:
Mittevastavaks märkimise aeg:	<input type="text"/>	Mittevastavaks märkimise etapp:
<input type="checkbox"/> Mitte fraktsioneerida		DNA saagis:
Märkused:	<input type="text"/>	<input type="button" value="Salvesta märkus"/>

Elektrofoores:	2003-08-28 10:37 99011 K2003_08_27.1E.gif	PCR:	2003-08-28 15:11 99011 K2003_08_27.1P.gif
			
<input type="checkbox"/> Mittevastavus	<input type="button" value="Salvesta"/> <input type="button" value="Prindi"/>	<input type="checkbox"/> Mittevastavus	<input type="button" value="Salvesta"/> <input type="button" value="Prindi"/>
Positsioon:	4	Positsioon:	4
Kommentaar:	<input type="text"/>	Kommentaar:	<input type="text"/>

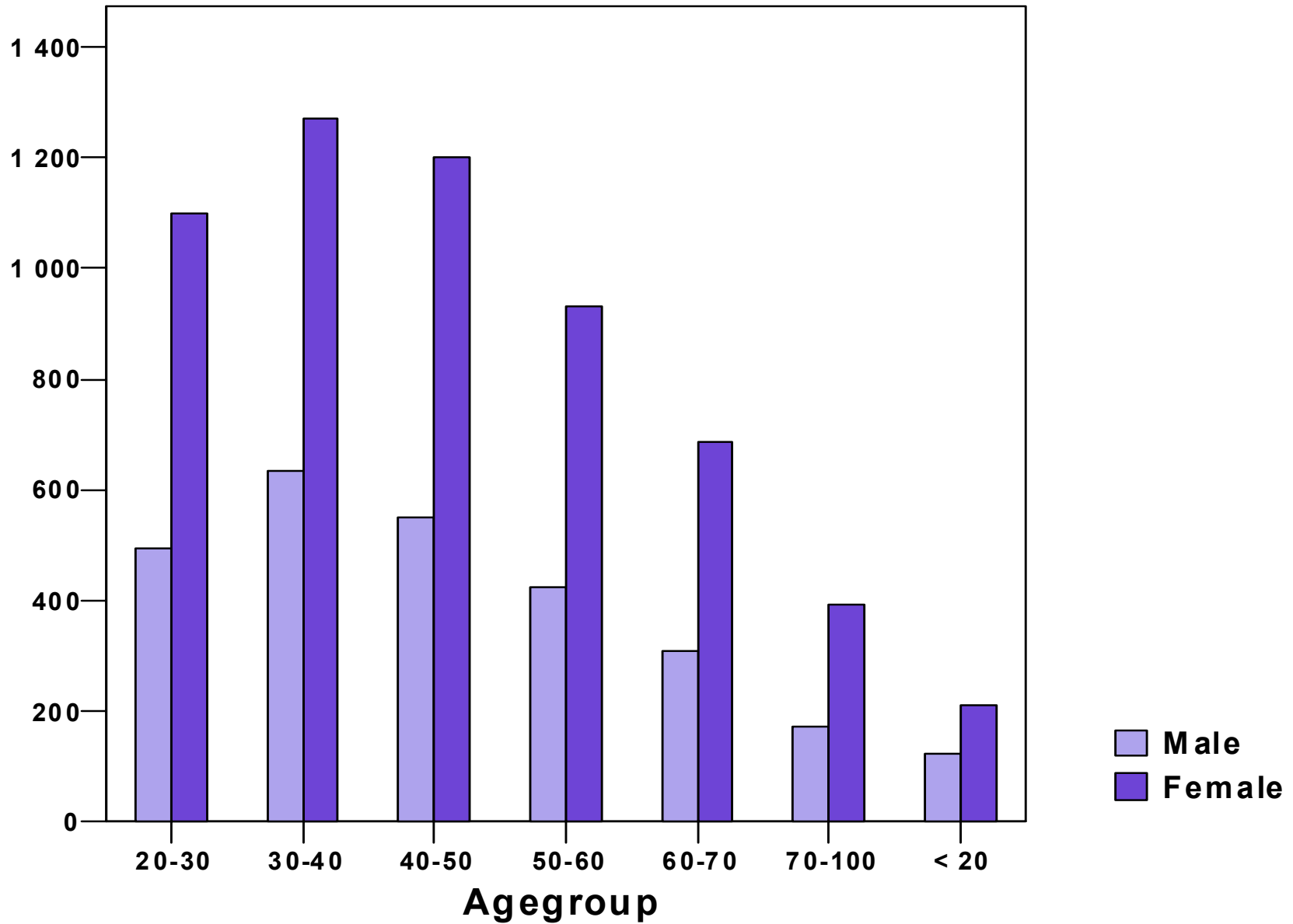
# Number and percent of gene donors by sex



# Distribution of age



# Number of gene donors by age and sex



# Validation studies recommended by SAB

- Validation of health questionnaire
- Validation of the population genetics parameters
- Validation study on known gene and disease

**Members:** Prof. Elio Riboli; Prof. Thomas Meitinger; Prof. Magnus Ingelman-Sundberg;  
Prof. Andres Metspalu; Prof. Toomas Veidebaum  
Prof. Lon Cardon (advisor)



# Media coverage during the year

- Nearly 100 articles in the Estonian media (the whole number is about 300)
- About 30 articles in the foreign media (the whole number is nearly 100)
- About 15 TV and radio broadcasts (Euronews, Deutsche Welle, German ARD, Italian RAI, Latvian TV)



