

IBO 2019

Report for the AB Meeting

The story at a glance

- 2007 – Saskatchewan – Canada – the first recognition of the IBO
- 2008 – Mumbai – India – the first letter was sent
- 2009 – Tsukuba – Hungary as observer
- 2010 – Changwon – South Korea – Hungary with team
- 2011 – Taipei – ROC – first gold medal
- 2012 – Singapore – The idea for hosting was born
- 2013 – Bern – Switzerland – Announcement of hosting
- 2014 – Budapest – Hungarian Government declared officially to support hosting
- 2016 – Hanoi – Vietnam - Topics of the Practical Exams were announced

Three major topics

- The 30th IBO as an event
- The 30th IBO as a competition
- Issues, problems, consequences

Arrival Day



Opening Ceremony



Students' free time activities



Jury free time activities



„Gulyás” Party



Closing Ceremony I.



Celebrating 30th Anniversary of IBO





Statistics I. – Persons involved

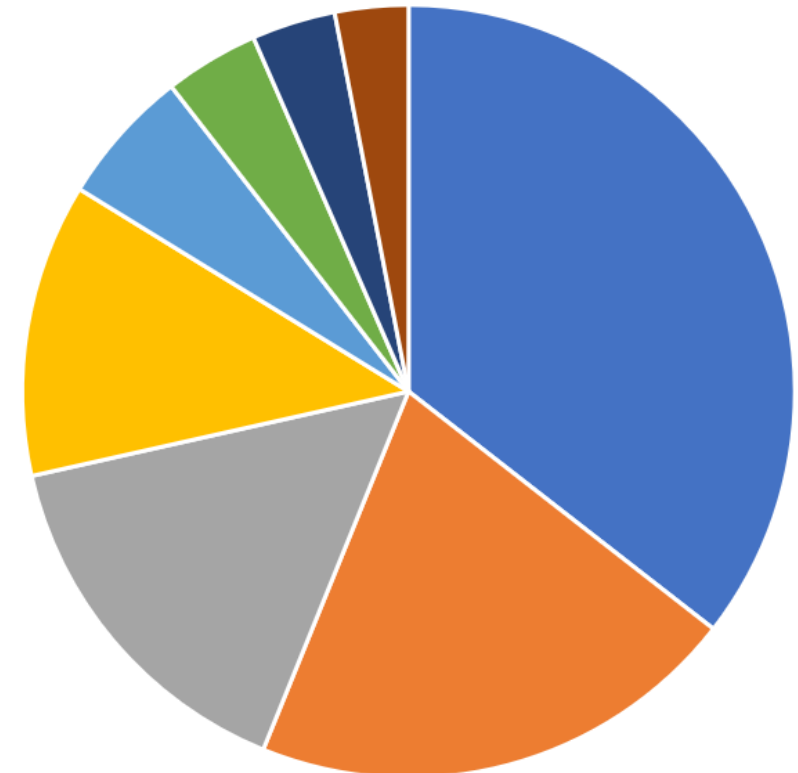
- AB/SC-Meeting in 2018: 27 people from 14 countries
- IBO – preparatory week: 18 people from 12 countries
- IBO – week:
 - 72 countries with team + 4 observers + France + IJSO 2020 + IIO 2023
 - 285 students
 - 271 Jury Members (including International Advisers)
 - 71 Guides (from 26 countries)
 - 27 employees with salary
 - 114 volunteers
 - **Totally: 768 people**

Statistics II. – Fun facts

- 4809 guest-nights
- 15.507 meals at 11 venues
- 17 venues
- More than 500.000 guest km in buses / coaches
- More than 2.500 envelopes
- 96.400 sheets of paper printed
- 2.771 official emails, 705 FB followers, 25.700 youtube watch
- 137.861 raw points distributed on the tests

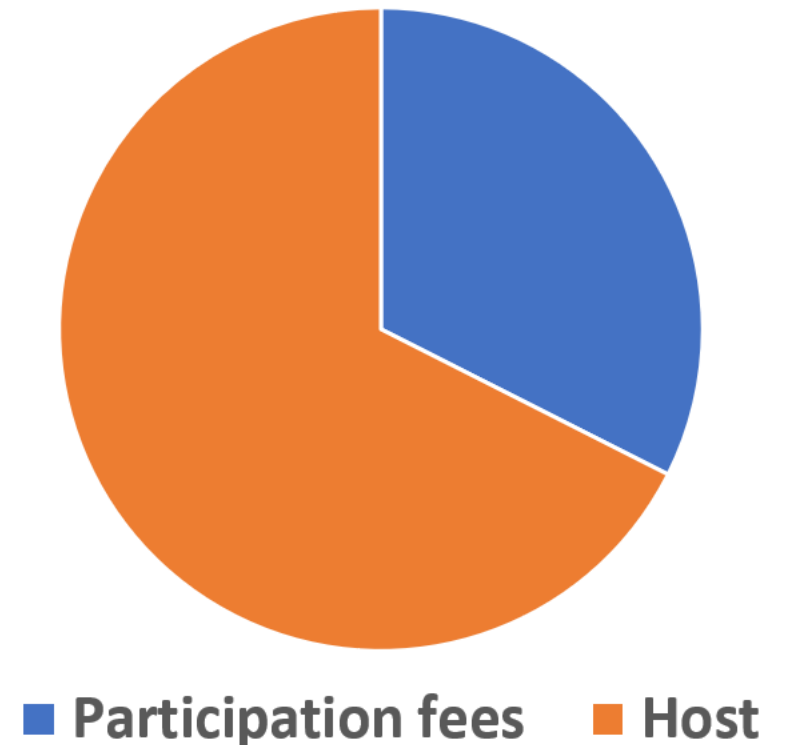
cca. 1.140.000 USD (est.)

- Accommodation: 405.000 USD
- Meals / Receptions: 235.000 USD
- Lab equipment / materials: 175.000 USD
- Salaries / Allowances: 140.000 USD
- Other (events, guests, etc.): 65.000 USD
- Venues / free time activities: 45.000 USD
- Travelling / transfers: 40.000 USD
- Printing / Oly Exams / IT: 35.000 USD



cca. 1.140.000 USD

- **Gouvernement : 550.000 USD**
- **Biomedicine Foundation: 120.000 USD**
- **Special Gov. Grant: 100.000 USD**
- **Participation fees: 370.000 USD**
 - **Teams: 2.200 USD / Team (4.200 USD)**
 - **Observer/Visitor: 1.980 / Person (700 USD)**



Visa and Translation

- Visa
 - 34 countries (Nigeria)
 - More than 200 people
 - Ministry of Foreign Affairs / Consulates
 - A lot of letters
- Translation to Russian
 - Alex and Olga offered help
 - Translation Firm – Quick, Precise

Special thanks to



- Judit Plesovszkiné Ujfalucki – Director of the Educational District Szeged
- Judit Volfordné Tóth – Chief of Finances (E.D.)
- Krisztina Sallainé Kovalik – Chief of Administration (E.D.)
- Viktoria Gál and Ágnes Bittera – Events / Accommodation / All other...
- Anikó Gömöriné Papp – Public Procurement (E.D.)
- Annamária Kurucsó dr. – Lawyer (E.D.)
- Edit Balázs – Finances (E.D.)
- Enikő Gulyás – PA
- Biomedical Foundation's Employers
- Sebastian & Dennis & All of You

- 2 tests (Morning + Afternoon)
- Containing almost 400 items
- Written by former competitors (Cambridge, Oxford, Glasgow)
- Two rounds of preliminary supervision (Josh + Advisers)
- Subgroup (Advisers + future / former hosts)
- Jury Room – Mate and Akos
 - 387 questions / issues were answered
 - 124 were accepted (mostly spelling / minor changes)
 - Others: mutual agreement
- Answer sheet /key was made by Christiane (GER) and Paulius (LIT)

Theory Exam

- (JA)SIC
- 2 floors
- Large tables
- Calculators
- English version
- Same conditions
- Dividers
- Whistle



- 4 tests (Morning + Afternoon)
- Containing different amount of items
- Written by more than 15 people
- Diversity in skills to assess
- Wetlab + Computer based data analysis + Calculations + Modelling
- There was no preliminary supervision
- Subgroup (Advisers + future / former hosts)
- Jury Room – 12 people in charge
 - Some questions were not answered
 - Strong dispute on biochemistry calculation (voltaic cell)
- Answer sheet /key was prepared – minor changes has been made

Practical Exams I.

- D.A. High School
- Each floor + Gym
- Different arrangement / Dividers
- Being late (2 hours)
- Few lab assistants
- Not all questions were answered
- Living materials were similar
- Training on Monday
- Brand new equipment



Practical Exams II.

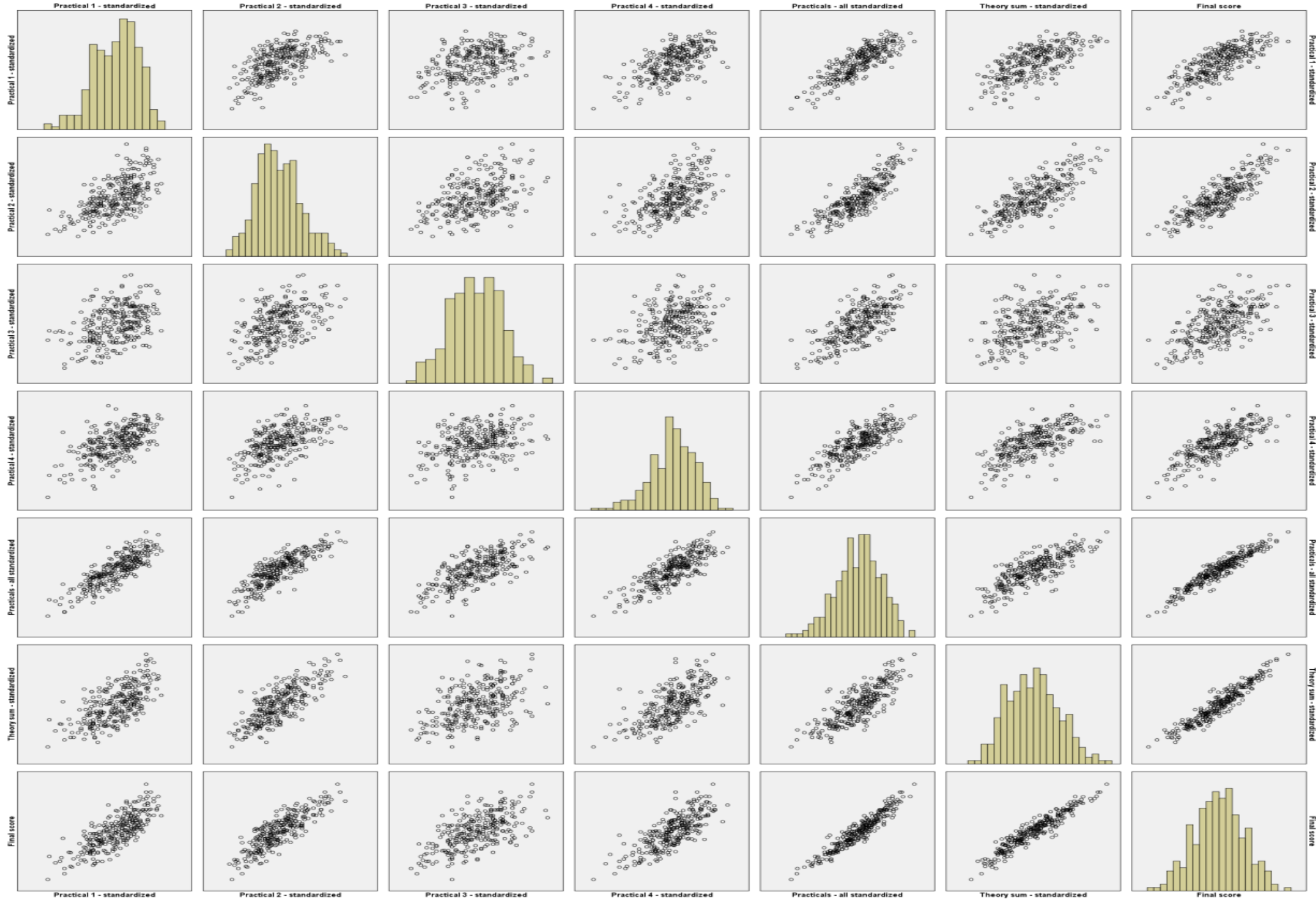
- Separated working area, but common social area for SEN students.
- Safety rules
 - Safety equipment (goggles, gloves, masks)
 - MSDS pages
 - All materials were labelled
 - Vast material was collected + handled separately
 - Biohazard
 - Emergency + M.D. onsite
- Extra food – because of the delay

Marking – Recording – Accepting

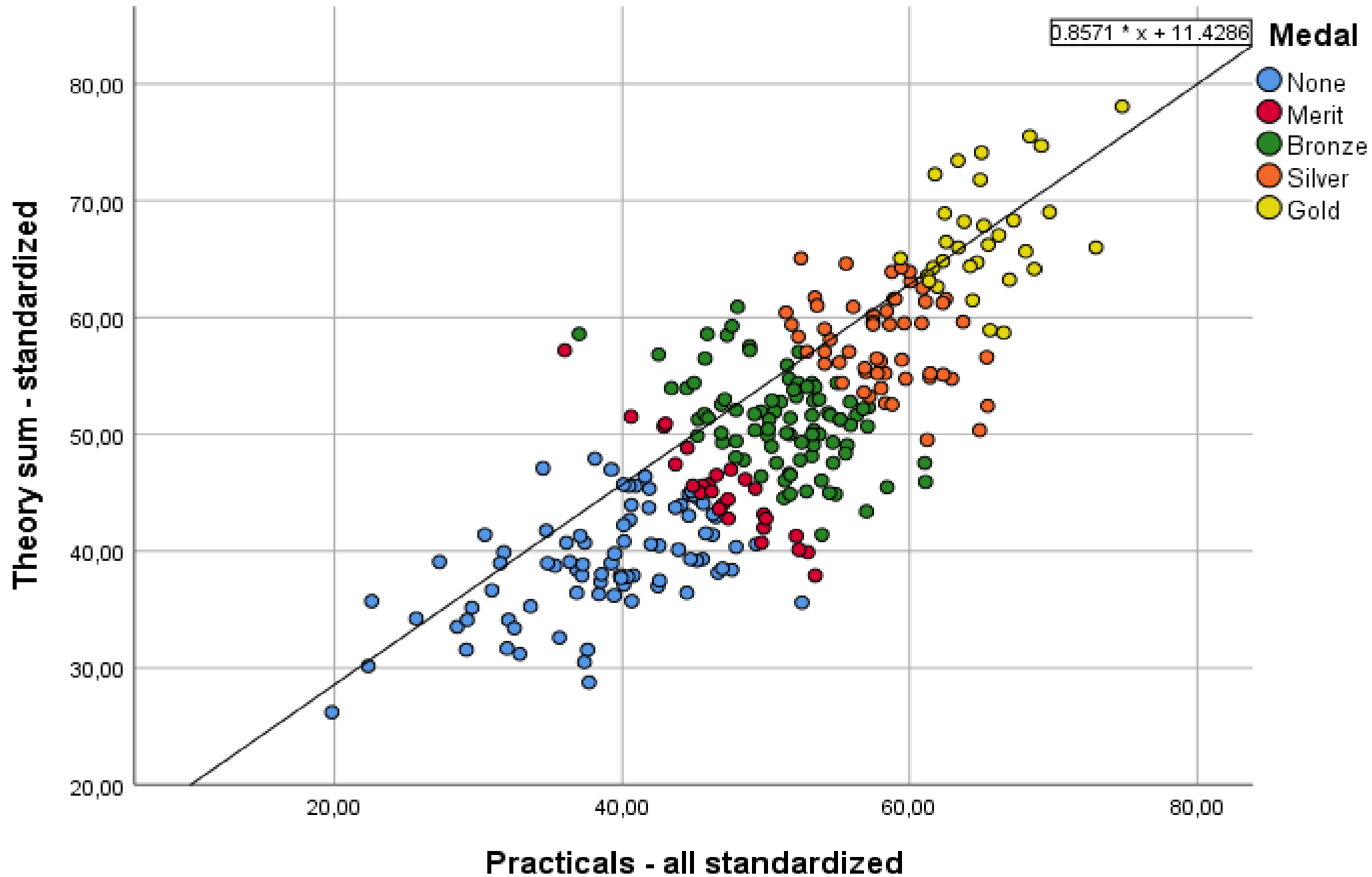
- 42 colleagues were marking (but not all of them was present)
- They were marking only one page / task – similar approach
- Barcodes were used to identify student – „blind” marking
- Too long time for marking → Recording was made by a separated team
- Scanning – no paper based – disputed
- Checking the marking → Moderation was slow (long queue – Theory)
- Mistyped barcode → fake results
- After correcting – Acceptance of results after Closing Ceremony

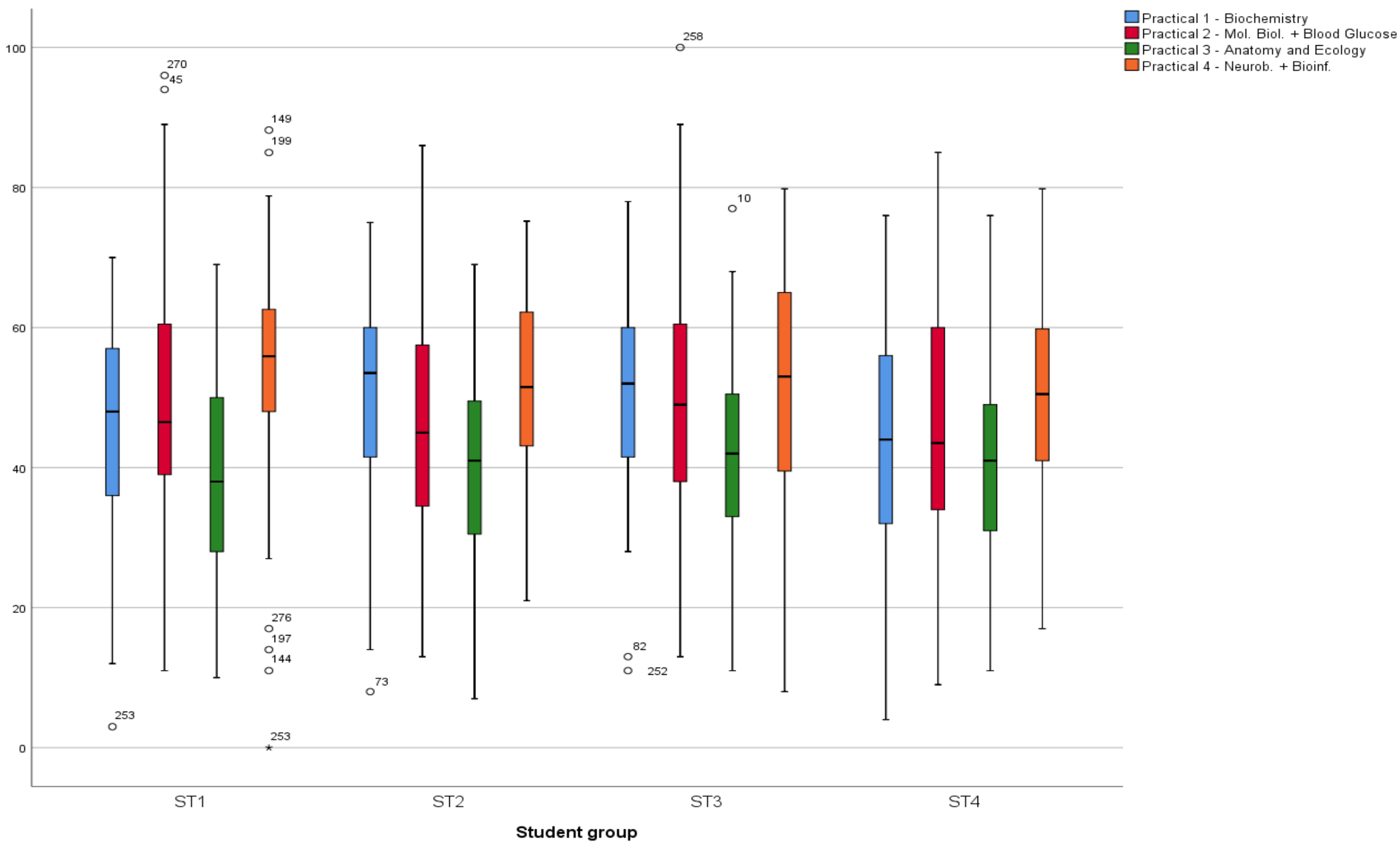
Results – Deep analysis

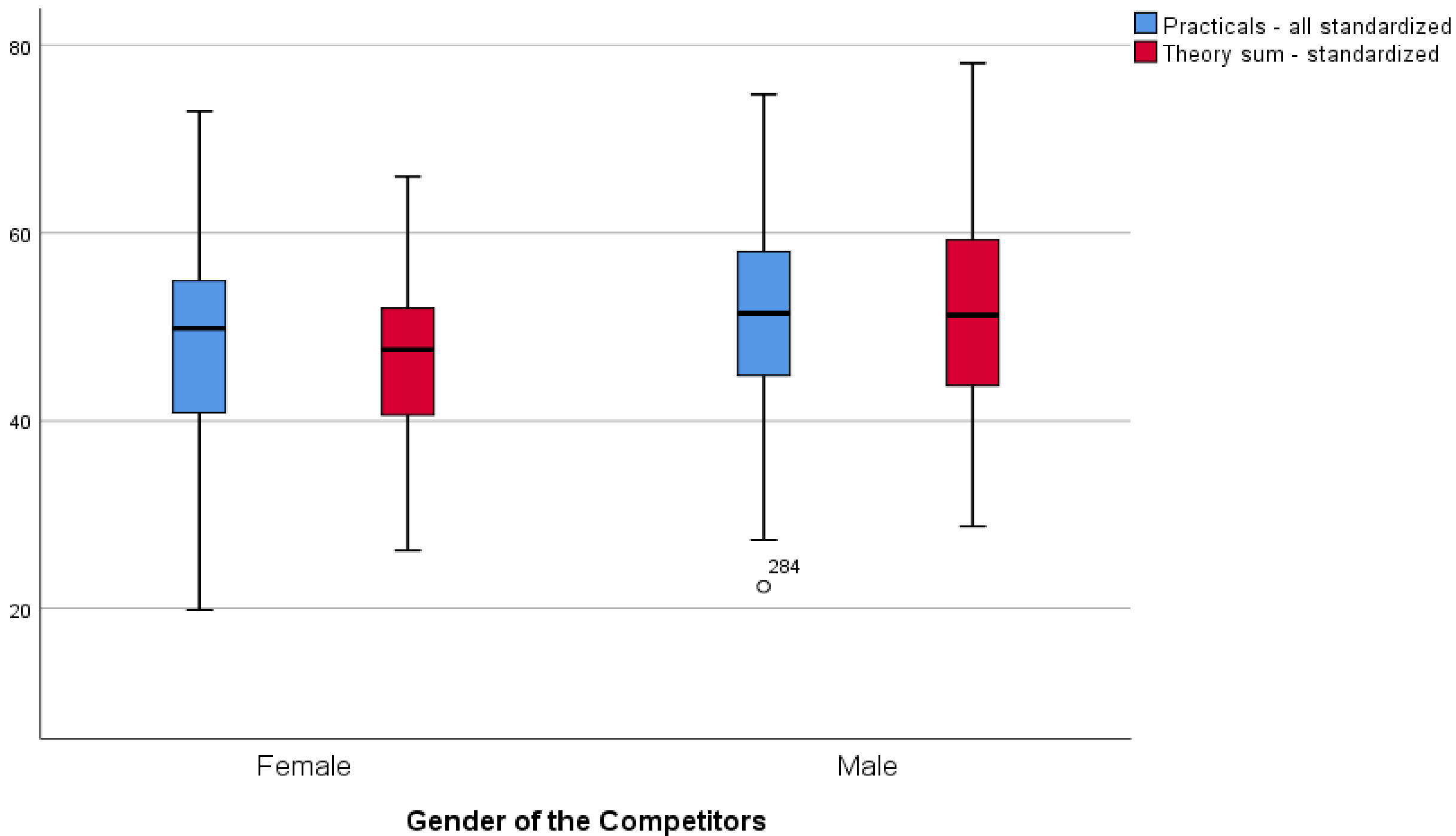
- Strong correlations – except Pr. 3. – intentionally assessed different skills
- No cheating was discovered in statistics
- Practical and Theory Exam Groups didn't have effect on the results
 - Bootstrap and ANOVA
 - Exception – Practical 1. Biochemistry – one group is significantly better ???
- All results are approaching to normal distribution – wide range (top)
- No effect:
 - GDP
 - Age
- Effect: Gender



Grouped Scatter of Theory sum - standardized by Practicals - all standardized by Medal





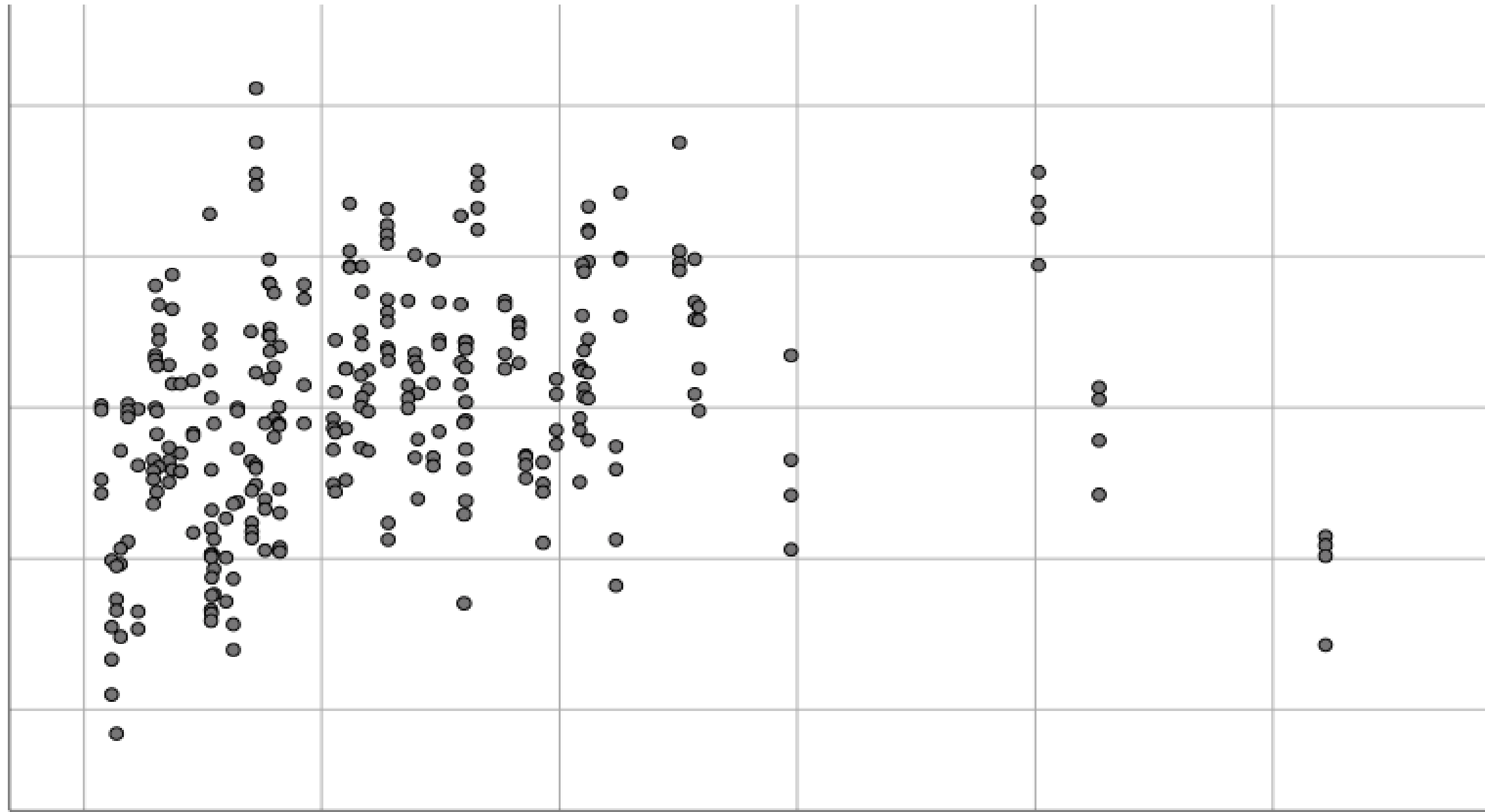


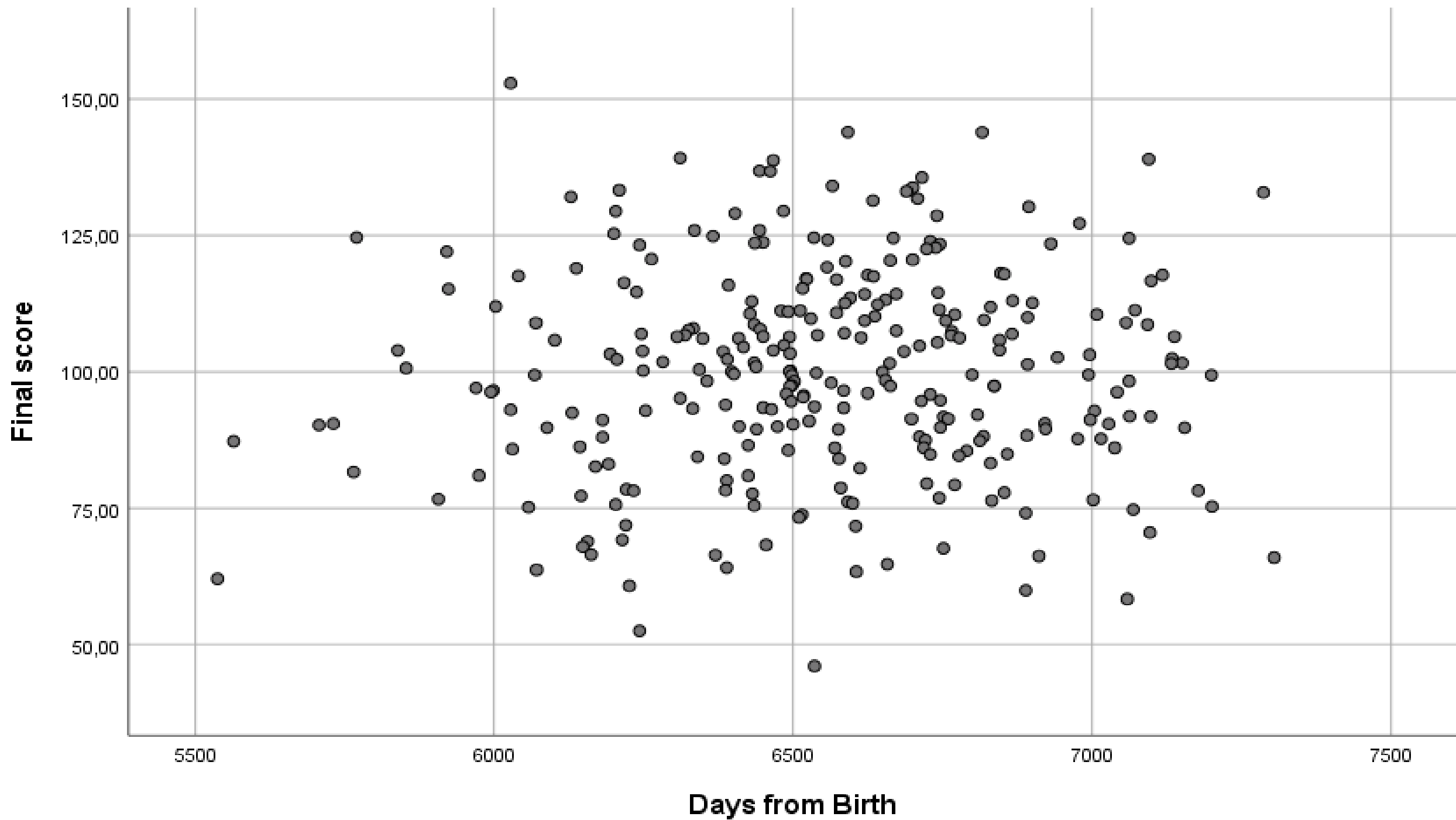
Final score

150,00
125,00
100,00
75,00
50,00

0 25000 50000 75000 100000 125000

GDP per capita





- Oly Exams
 - Sophisticated and stable backend – two swiss guys did it 😊
 - You need at least 6-8 people to fill and regulate the frontend and at least four of them to be on charge during the Jury Meeting!
 - Costs twice as the Jo.Da. System
 - Advantages: quick, nice pdf, voting system, comment and answer function
 - To be improved: „Flags”, same window, sharing the same documents,...
- Barcode
 - To avoid the influence in marking
 - Use compatible barcodes/scanners 😊
- New people in the Subjury
 - Great thanks to all
 - Motivating atmosphere
 - Especially to Christiane and Paulius, who managed the theory marking scheme
- No Answer Sheet translation – less work / less confusion
- GDPR (the first GDPR compatible IBO 😊)

- Visa issues
 - Was much more problematic than we imagined
 - Two single people needed only for the visa issues (almost 40 countries)
- Certificates
 - Financial resources were closed at 1st Aug.
 - Wasn't distributed at the end of the Ceremony
 - Lithuania received their medals and Poland /Ukraine /Germany received
 - Here 11 more
 - EU being sent by E.D.
 - Remaining from the courtesy of IBO (Sebastian and Dennis)

- Unplanned processes – both made trouble
 - Recording and distributing the results
 - Materials back to the lab
- Too few people from the University
 - Not enough practical exam writer
 - Not enough lab assistant
 - Not enough marker / recorder
 - Last minute people – low level of coordination quality and unity
- International Advisers – role of them
 - Paulius, Mary and Poon were at hand always – great contribution – great thanks
 - Others were more at help of the Jury than of the host
- Too few information
 - No lecture at the beginning of the practicals
 - Not enough information on recording / acceptance process

- A lot of laughing, fun and joy – proving by photos/videos
- No modifying requests with the results
- We hope that
 - All students
 - Most of the Jury Members enjoyed the IBO week
- We offer to Future Hosts
 - All documents
 - All details
 - All experiences (IJSO 2020 – Guiding)

