Validation - trends

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ValTrendsDB

- Database of biomacromolecular structure validation trends
- Based on structures from Protein Data Bank, automatic update
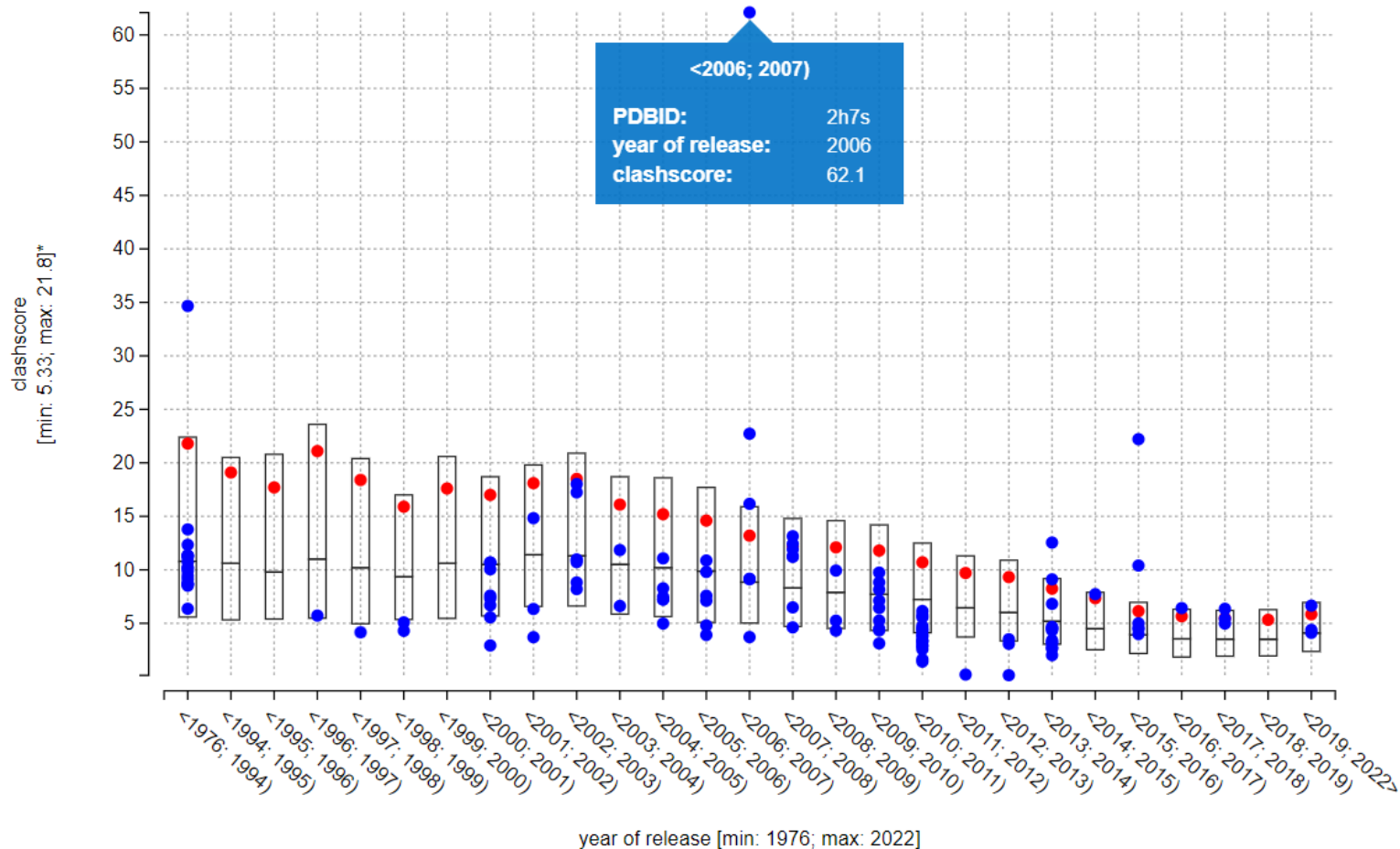- http://ncbr.muni.cz/ValTrendsDB
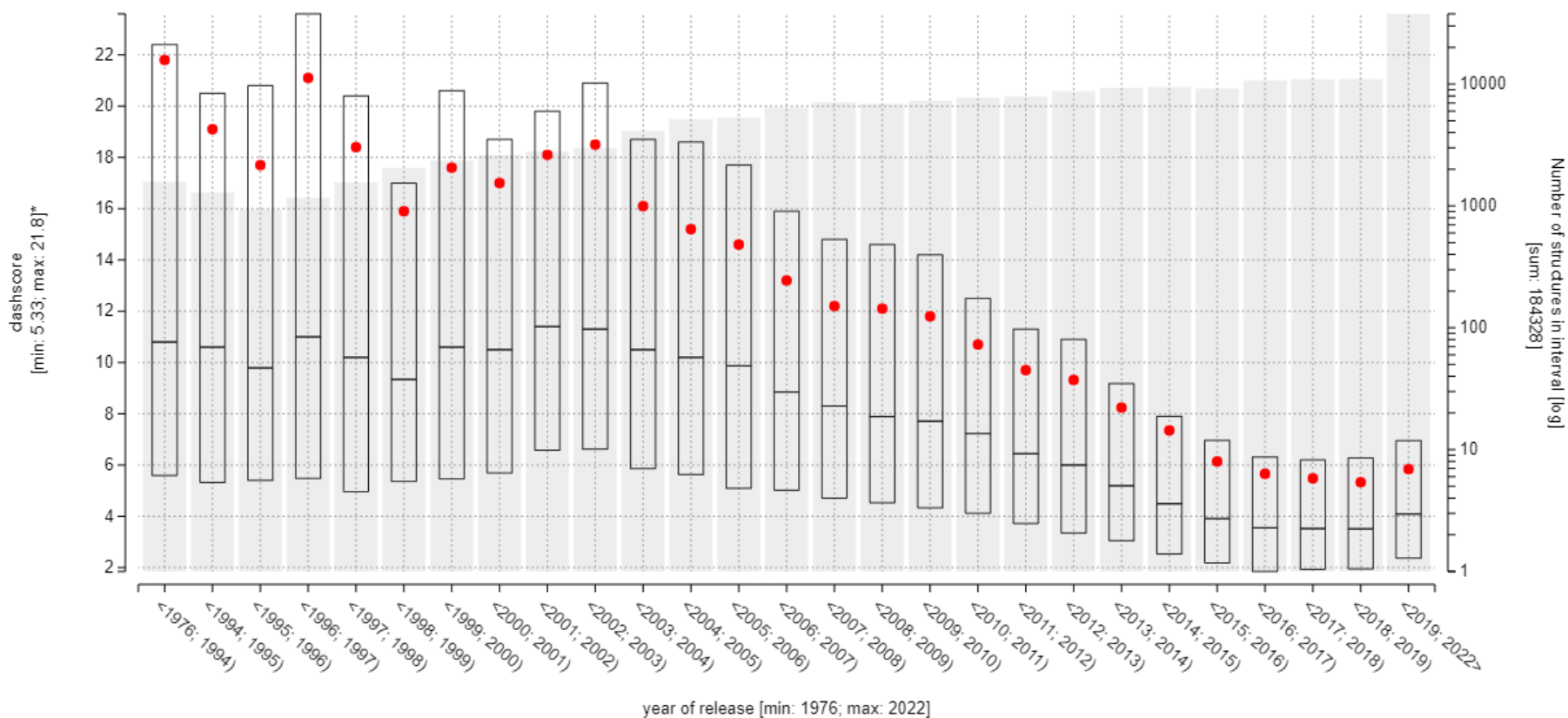
Horský V., Bendová V., Toušek D., Koča J. Svobodová R., 2019. *ValTrendsDB: bringing Protein Data Bank validation information closer to the user*. **Bioinformatics**, *35*(24), 5389-5390.
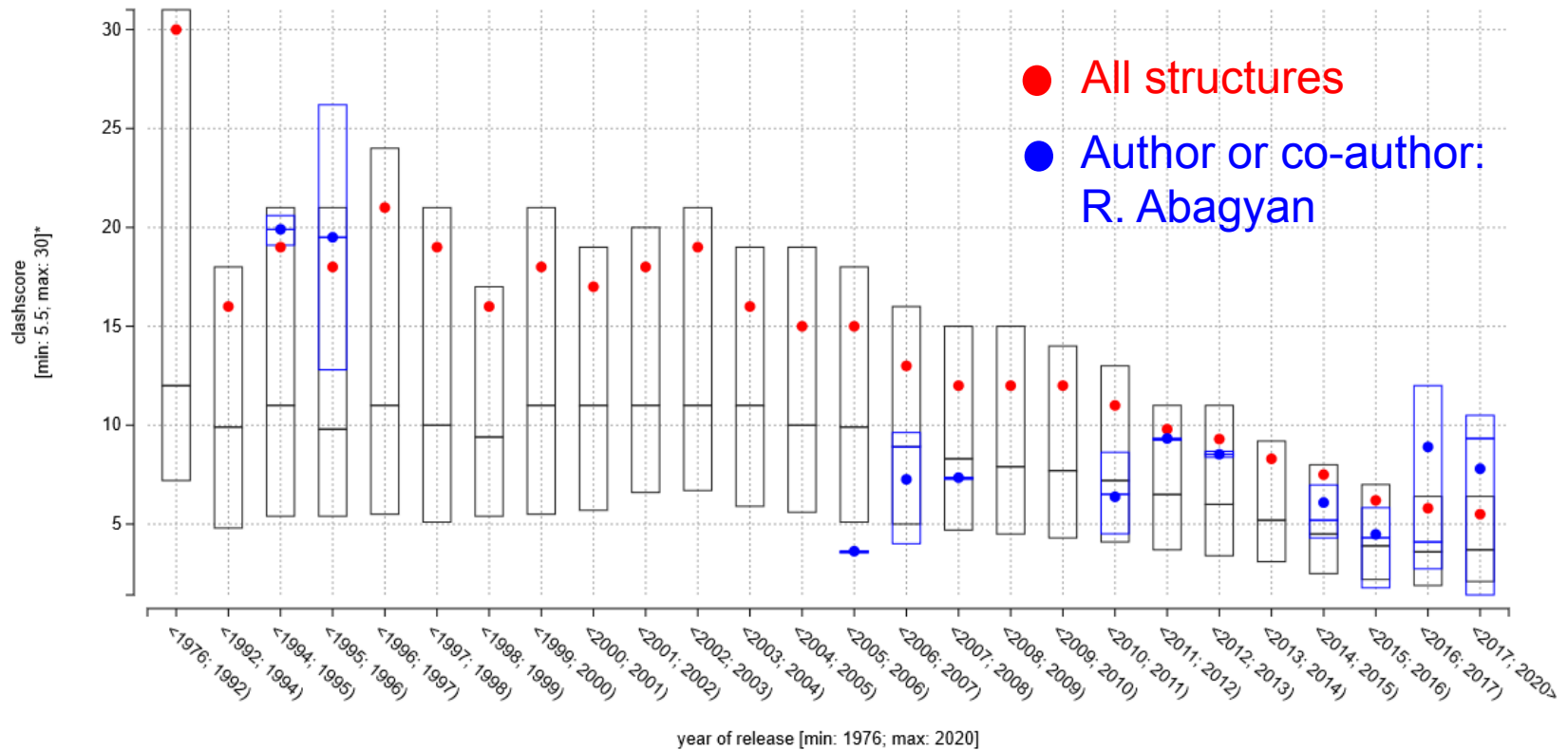
ValTrendsDB

- Validation of cytochromes P450 – overview of the whole family

Blue points are structures of cytochromes P450-cam
Red points show a common trend

Other projects: ValTrendsDB

- Database of biomacromolecular structure validation trends
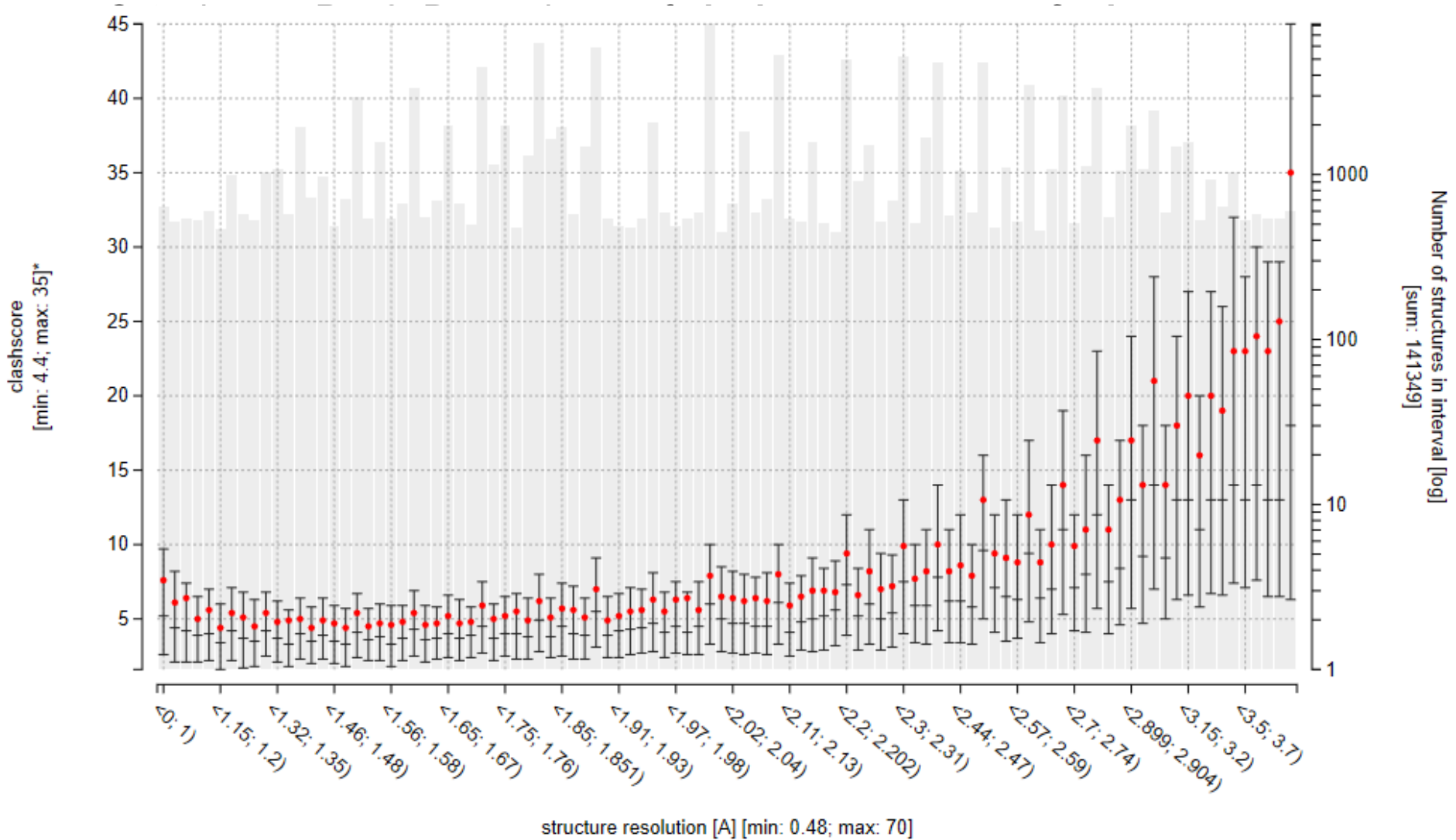- Based on structures from Protein Data Bank, automatic update
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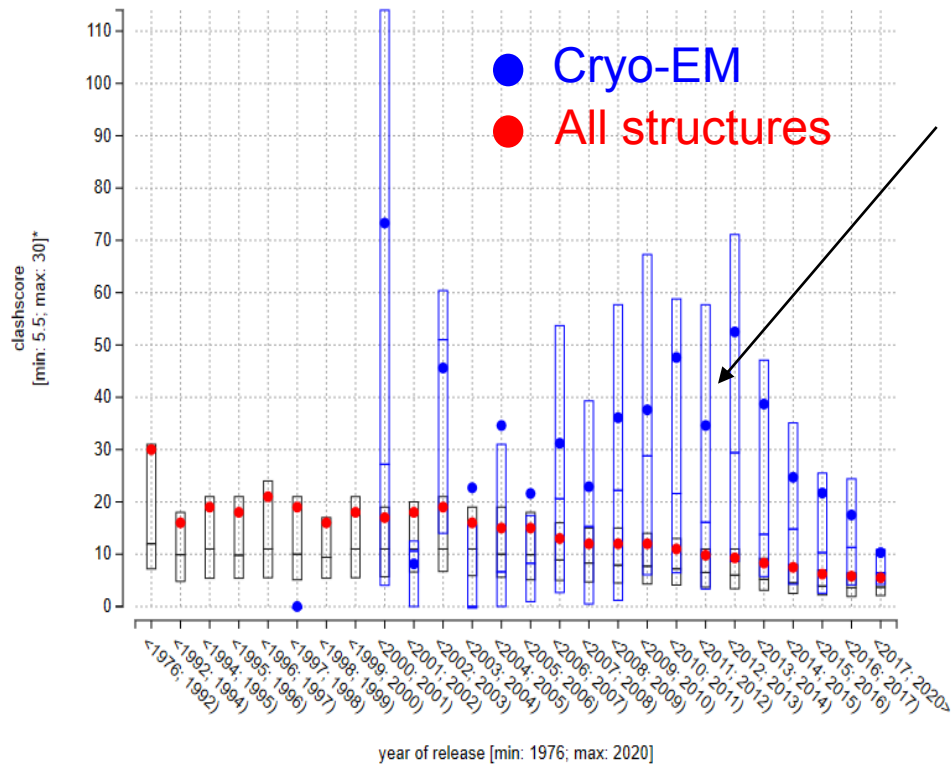
ValTrendsDB
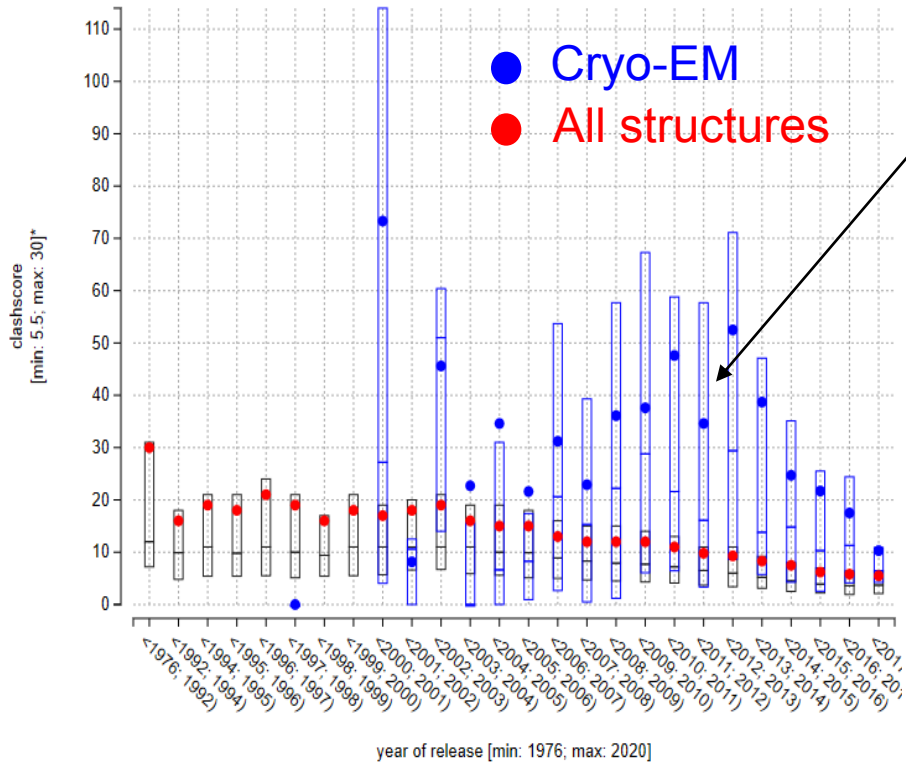## Protein quality and resolution :-)
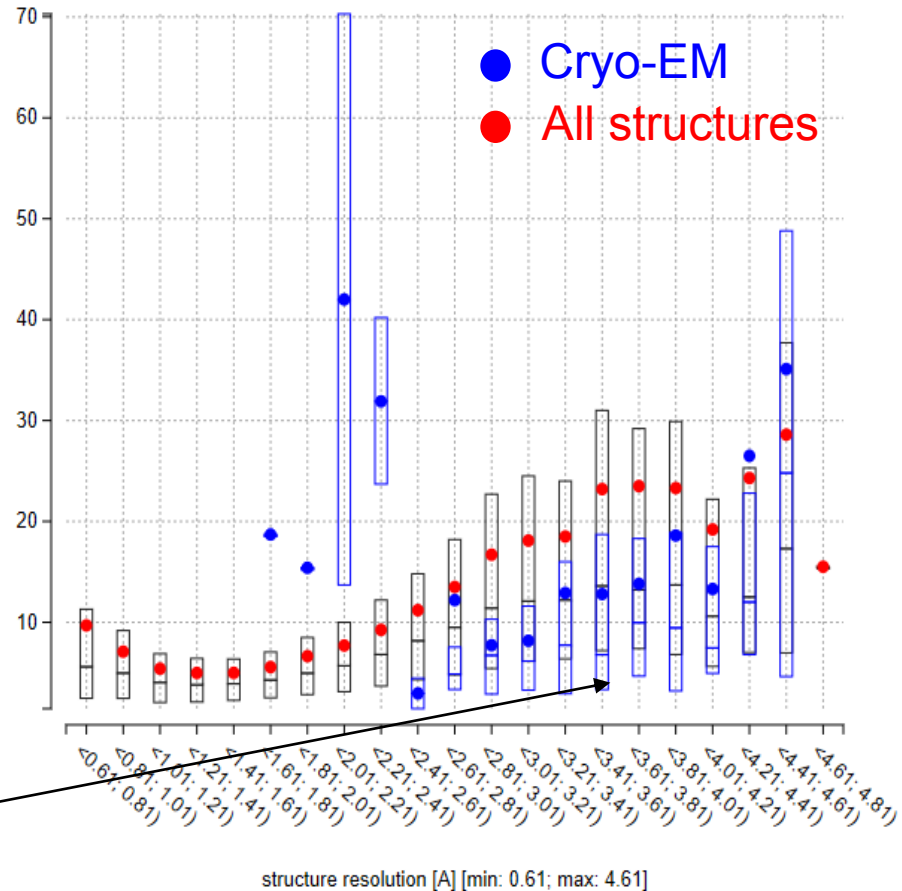
ValTrendsDB
Example of analysis

It looks, Cryo-EM structures have much lower quality than common structures

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ValTrendsDB
Example of analysis

It looks, Cryo-EM structures have much lower quality than common structures

But when we take into account a resolution, Cryo-EM structures have (for resolution > 2.4 Å) higher quality