

Frali: Frame based multiple sequence alignment

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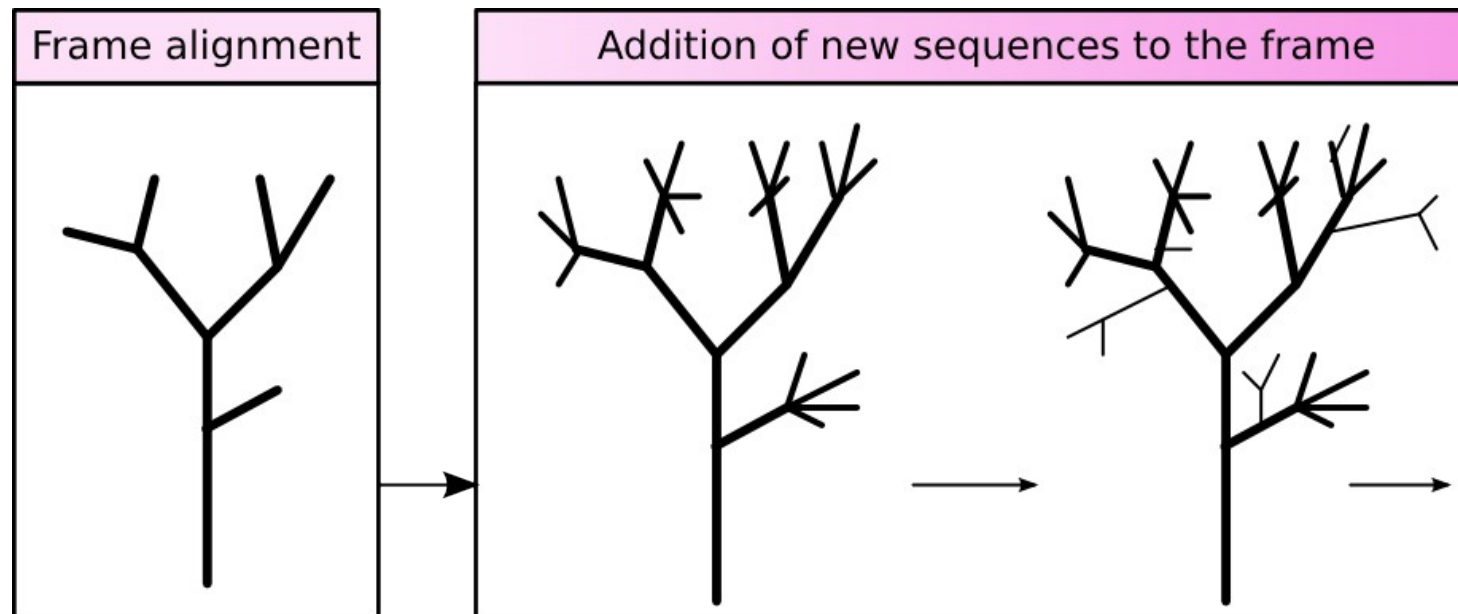
Poster 2

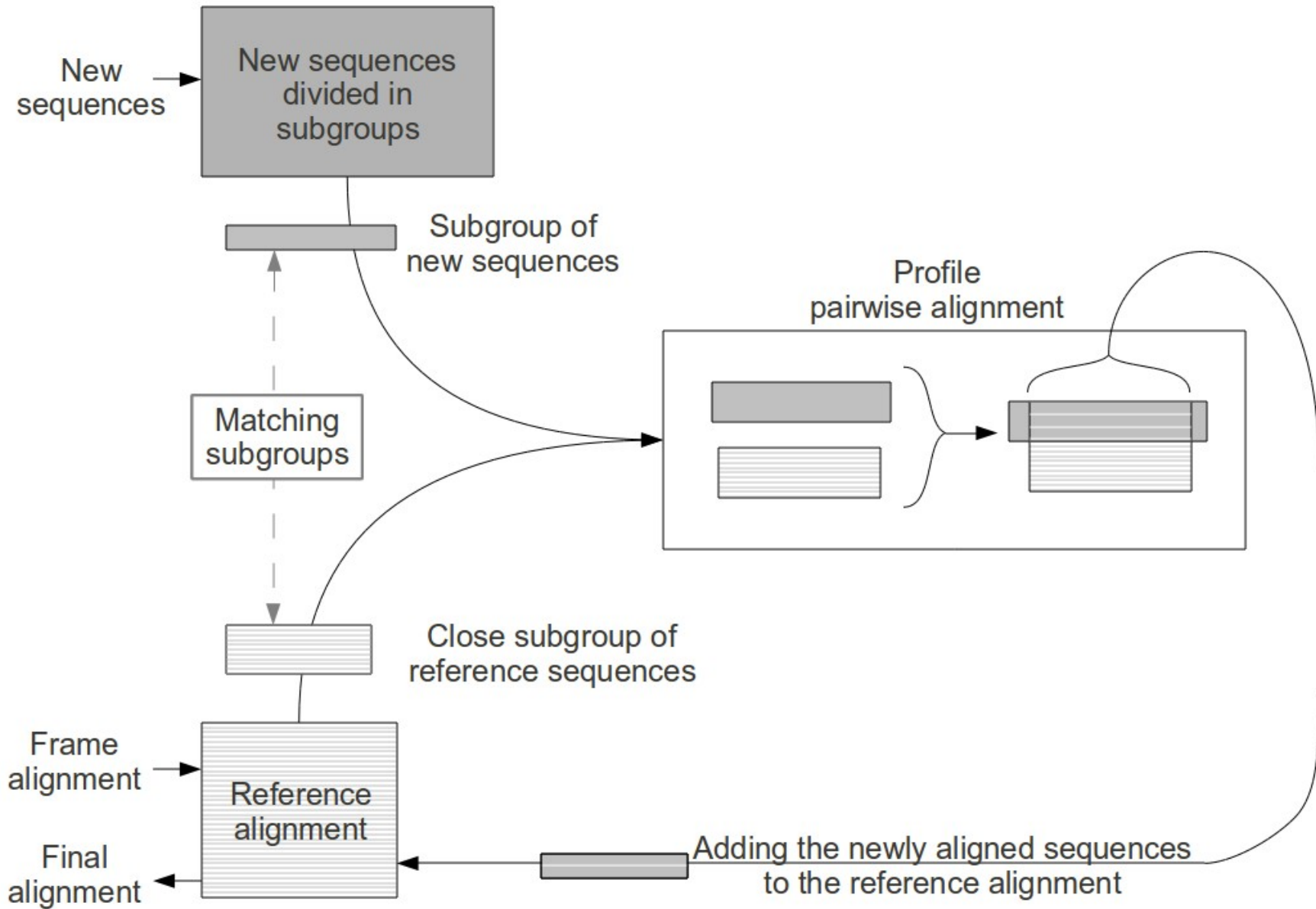
Protein families and multiple sequence alignment

- Building a multiple sequence alignment
- Automatic methods: Tcoffee, Muscle, ClustalW...
- New sequences available at high rate
- Manual curation

Principle:

- Instead of recreating the whole alignment every time: direct addition of sequences to an initial high quality multiple sequence alignment called “Frame”





Conclusion

- Several filters: identity threshold, indels size, etc.
- No pre-treatment needed especially for multiple domain proteins
- High quality and representative (diversified) Frame alignment needed, but easy and fast update

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