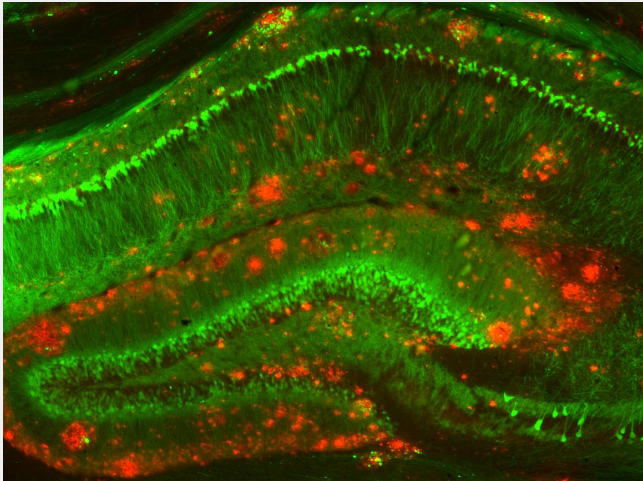


# AmyloGram 2.0: MBO in the prediction of amyloid proteins

Dominik Rafacz

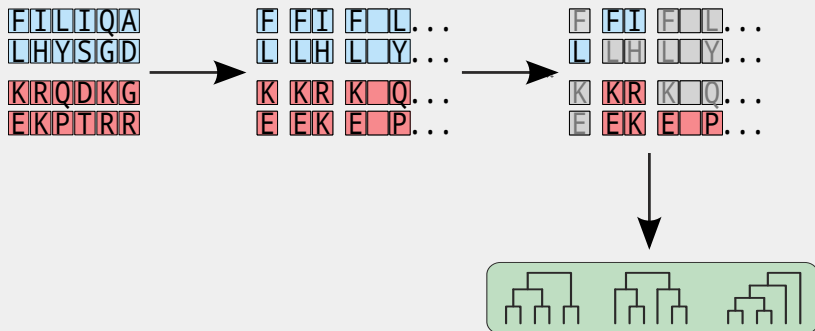
Politechnika Warszawska, Faculty of Mathematics and Computer Science

# Amyloidogenic proteins



Amyloid aggregates (red) around neurons (green). Strittmatter Laboratory, Yale University.

# AmyloGram - n-grams analysis



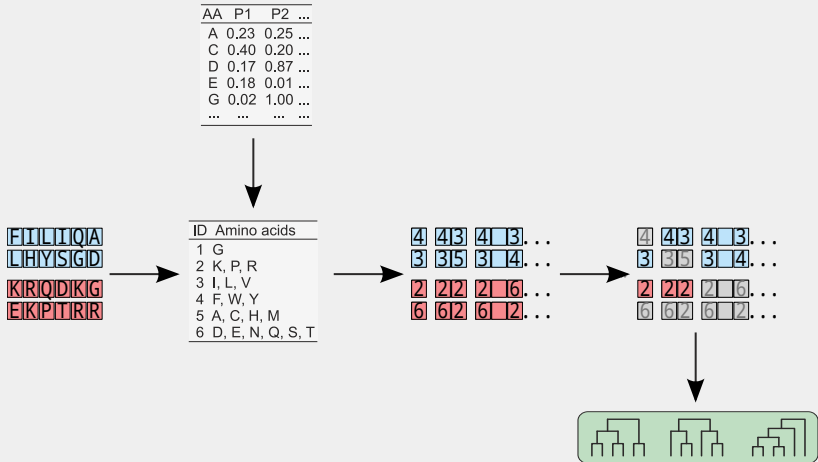
Example 1-grams: A, L, G

Example 2-grams: AL, MM, MY

Example 2-grams (with a gap): A-L, M-M, M-Y

Burdukiewicz, M., Sobczyk, P., Rödiger, S., Duda-Madej, A., Mackiewicz, P., and Kotulska, M. (2017). Amyloidogenic motifs revealed by n-gram analysis. Scientific Reports 7, 12961

# AmyloGram - alphabet reduction



Burdukiewicz, M., Sobczyk, P., Rödiger, S., Duda-Madej, A., Mackiewicz, P., and Kotulska, M. (2017). Amyloidogenic motifs revealed by n-gram analysis. *Scientific Reports* 7, 12961





# Acknowledgements

# References