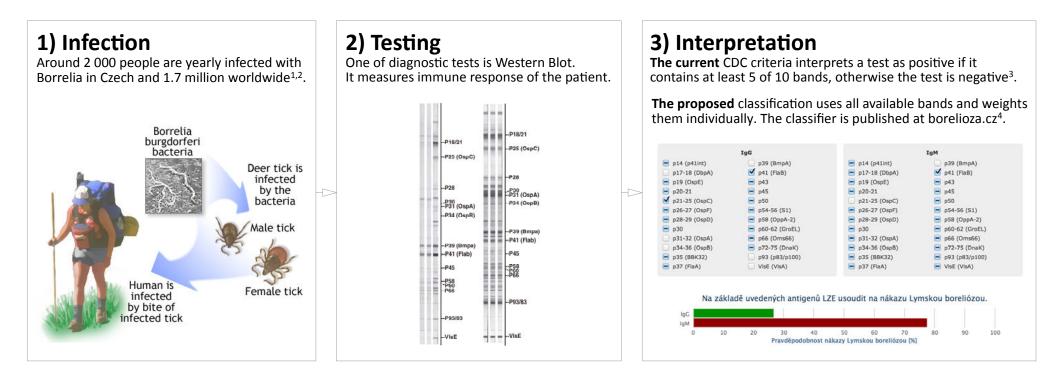
Borreliosis Diagnosis

"There may not be a single reliable antigen for Lyme borreliosis diagnosis.

But together, they can work pretty well."



Advantages of the Proposed Interpretation Method:

- 1) Probabilistic interpretation catches borderline cases better than binary classification.
- 2) Increases sensitivity from 34% to 81% while it preserves specificity at 98%⁵⁻⁸.
- 3) Optimized for Czech patients on sample of 1 700 Western Blots.

Disadvantages of the Proposed Interpretation Method:

- 1) More antigens to remember. Alleviated by extensive tooltip description.
- 2) The public version considers only binary intensity of the bands for usability reasons (like CDC does). Nevertheless, a version with a continuous scale is currently evaluated by Dr. Klubal⁹.

Brief Reference:

The left image with ticks: http://www.ncbi.nlm.nih.gov/pubmedhealth/PMH0002296. The middle image with annotated WBs: http://dx.doi.org/10.1016/j.jneuroim.2012.10.0111.

- 1) http://www.szu.cz/publikace/data/kumulativni-nemocnost-vybranych-hlasenych-infekci-v-ceske. 2) http://www.rightdiagnosis.com/l/lyme_disease/stats-country.htm
- 3)http://www.cdc.gov/mmwr/preview/mmwrhtml/00038469.htm 4) http://www.borelioza.cz/cs/klasifikator wb testu. 5) http://dx.doi.org/10.1086/516173
- 6) http://www.touchinfectiousdisease.com/system/files/private/articles/1869/pdf/harris.pdf. 7) http://www.igenex.com/labtest.htm
- 8) http://www.asid.net.au/images/PDFs/Poster%20Presentations/Ann%20Mitrovic%201.pdf. 9) http://www.mc-praha.cz.