ABL – PREDICTING LOW LIPID
FOR EARLY INTERVENTION

YOYO BENCHETRIT & ANIKA ARORA

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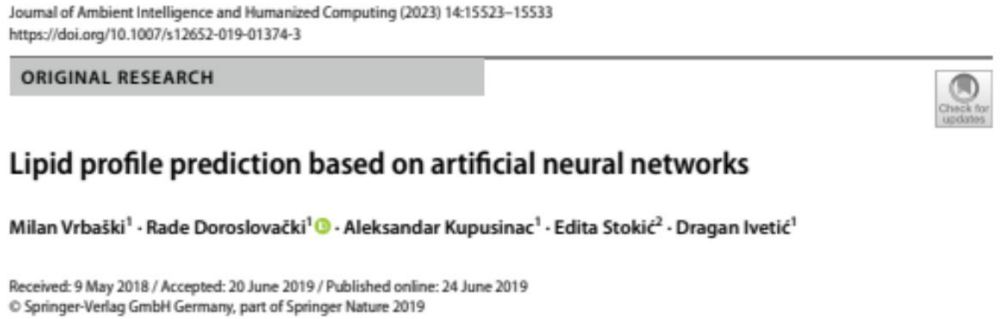
TACKLING THE NEED FOR EARLY LIPID SCREENING

- Low lipid and apo-B levels are opportunistically tested for
- Early detection of low lipid levels is needed for intervention in childhood

RELEVANT LITERATURE & DATA

- https://www.ncbi.nlm.nih.gov/books/NBK532447/
- https://link.springer.com/article/10.1007/s12652-019-01374-3
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8560840/
- https://www.cdc.gov/nchs/nhanes/index.htm



Journal of Ambient Intelligence and Humanized Computing (2023) 14:15523–15533
https://doi.org/10.1007/s12652-019-01374-3

ORIGINAL RESEARCH

Lipid profile prediction based on artificial neural networks

Milan Vrbaški[1] · Rade Doroslovački[1] · Aleksandar Kupusinac[1] · Edita Stokić[2] · Dragan Ivetić[1]

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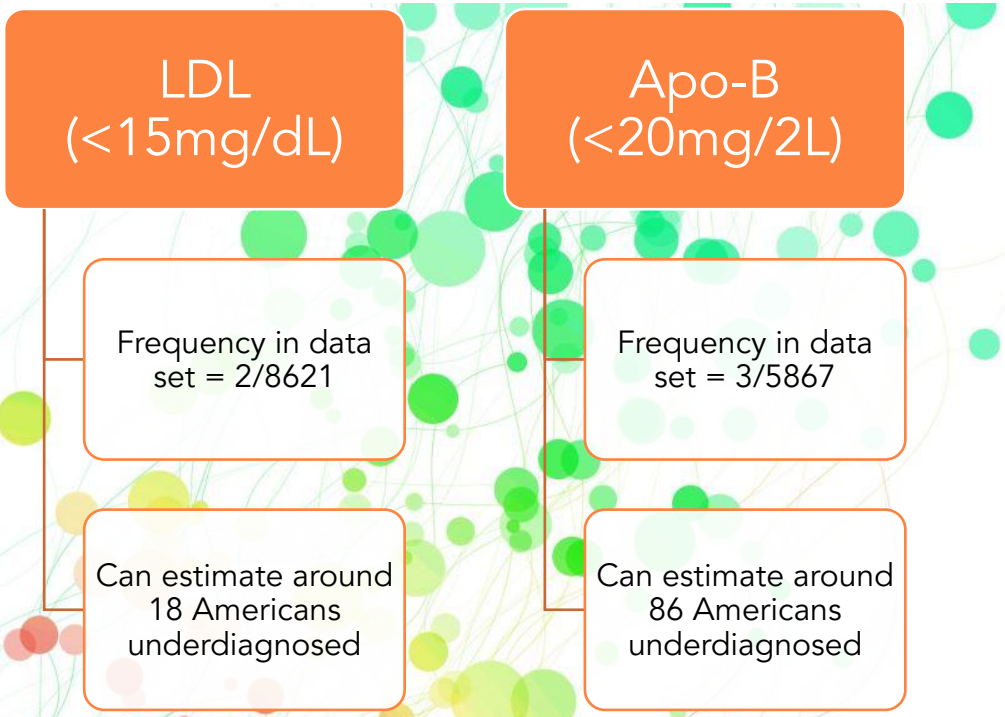
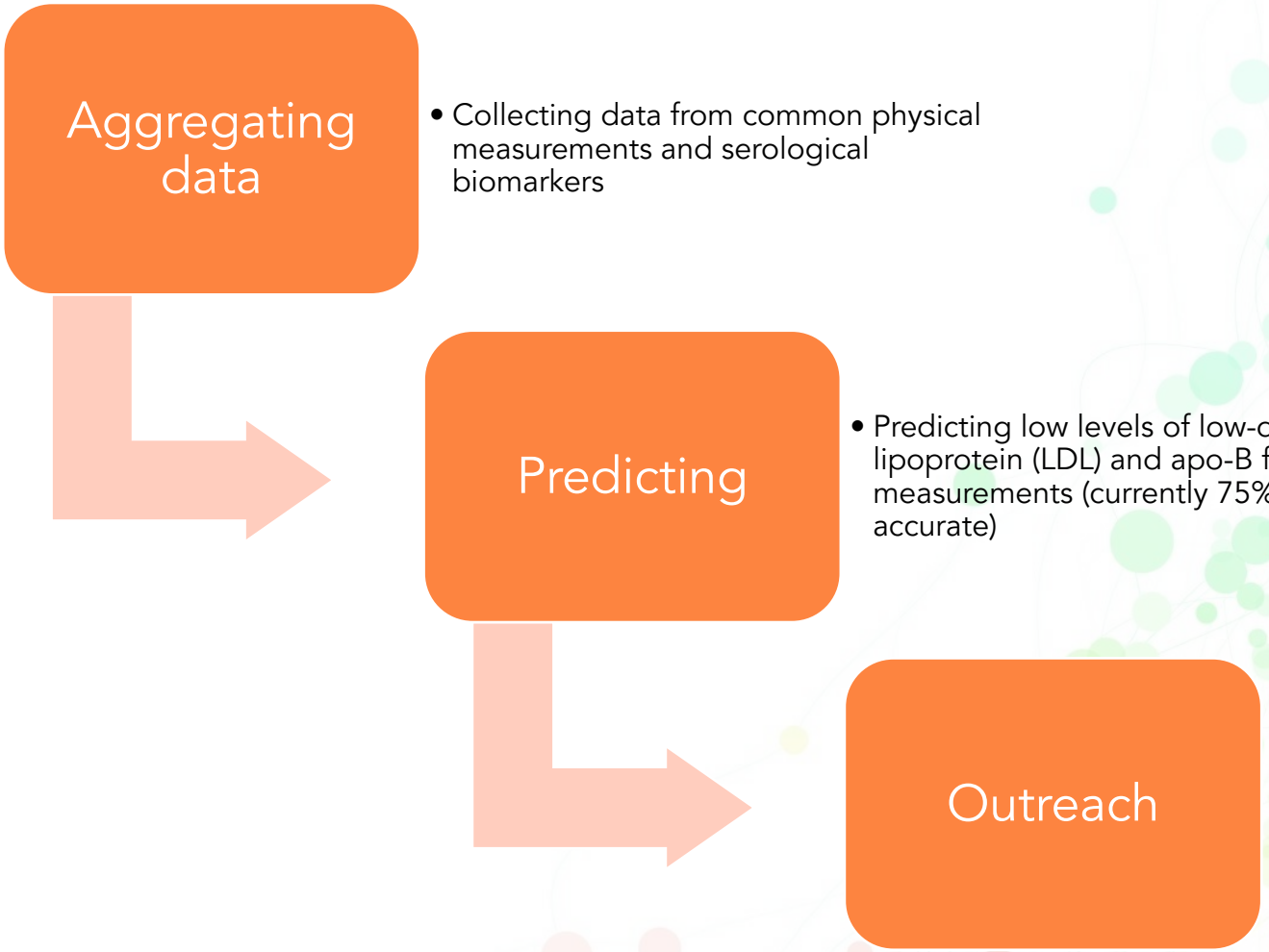
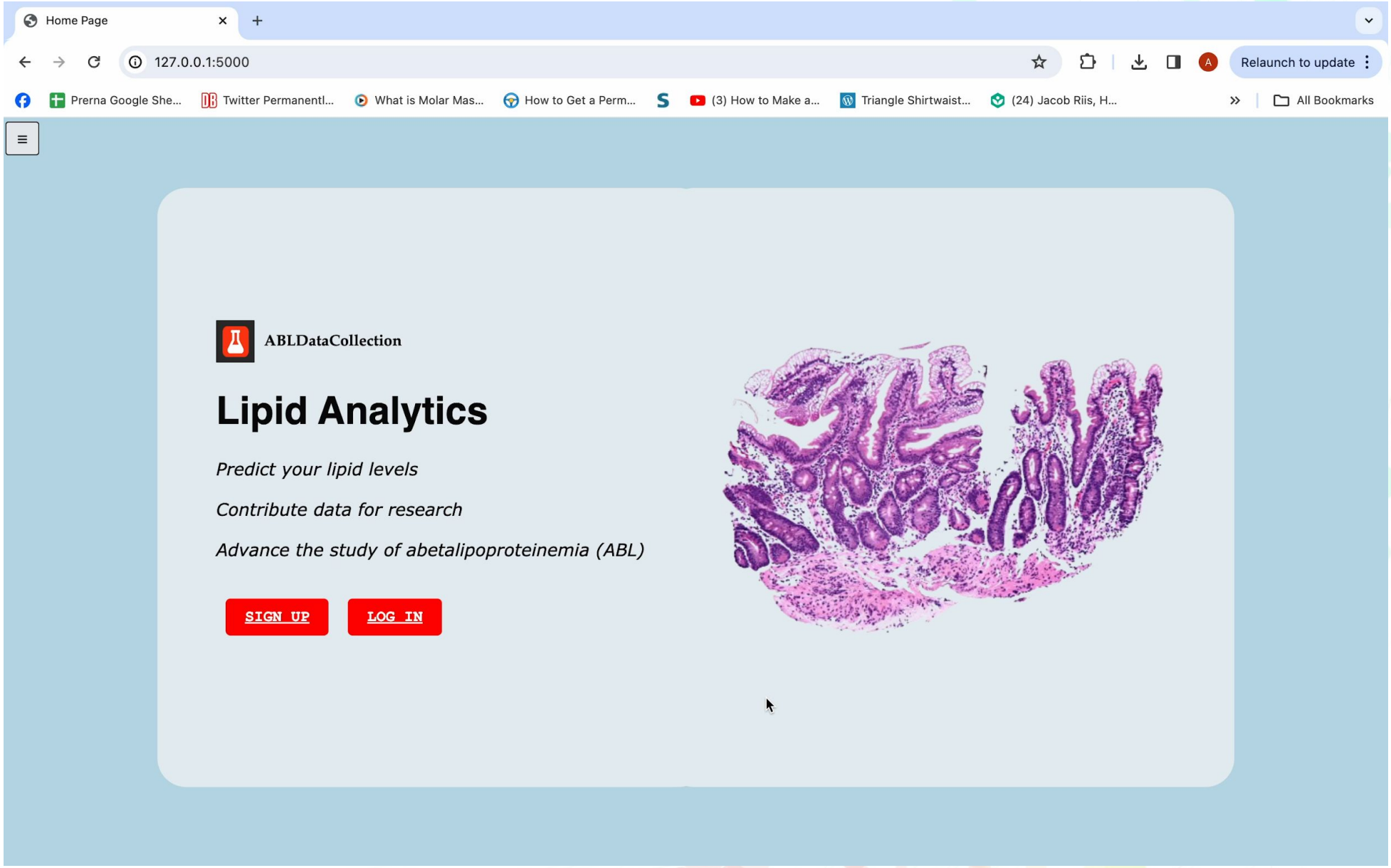


OUR CURRENT MODEL & OUTREACH



WEB-APP DEMO


Home Page
127.0.0.1:5000
Relaunch to update
Prerna Google She...
Twitter Permanentl...
What is Molar Mas...
How to Get a Perm...
(3) How to Make a...
Triangle Shirtwaist...
(24) Jacob Riis, H...
All Bookmarks
ABLDataCollection
Lipid Analytics
Predict your lipid levels
Contribute data for research
Advance the study of abetalipoproteinemia (ABL)
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PREDICTING LOW LIPID LEVELS IN ABL — CHALLENGES AND FUTURE DIRECTIONS

- Continue to research more definitive links between low lipid profiles and other commonly tested measurements to predict these more extreme lipid profiles
- Include a module component specifically for ABL patients to share data
- Validate and generalize our predictive model to translate to the paediatric population for early diagnosis and intervention
- Continue using our model to show that ABL is underdiagnosed, and hence provide compelling reason for lipid screening in infancy

THANK YOU

SPECIAL THANKS TO PAUL BIDERMAN AND CINDY BREDEFELD FROM ABL+