

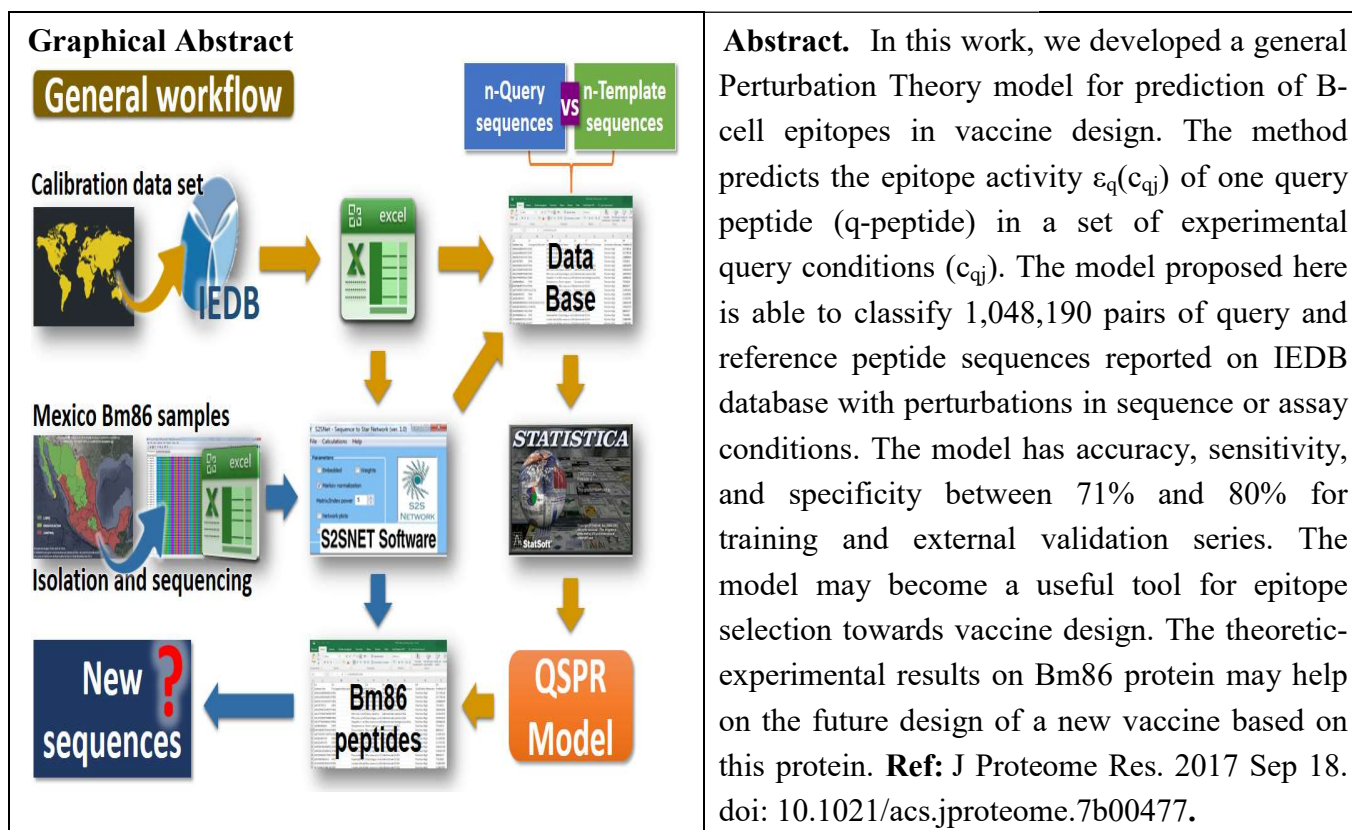
## Alignment-Free Model for Prediction of B-cell Epitopes

Saúl G. Martínez-Arzate<sup>§</sup>, \* Esvieta Tenorio-Borroto<sup>§</sup>, Alberto Barbabosa Pliego<sup>§</sup>,  
 Héctor M. Díaz-Albiter<sup>#,Δ</sup>, and Juan C. Vázquez-Chagoyán<sup>§,\*</sup>

<sup>§</sup> Molecular Biology Laboratory, CIESA, FMVZ, Autonomous University of The State of Mexico (UAEM), 50200 Mexico State, Mexico.

<sup>#</sup> Laboratory of Biochemistry and Physiology of Insects, Oswaldo Cruz Institute, FIOCRUZ, 4365, Rio de Janeiro, Brazil.

<sup>Δ</sup> Wellcome Trust Centre for Molecular Parasitology, University of Glasgow, University Place, Glasgow G12 8TA, United Kingdom.



### References

- Vita, R.; Overton, J. A.; Greenbaum, J. A.; Ponomarenko, J.; Clark, J. D.; Cantrell, J. R.; Wheeler, D. K.; Gabbard, J. L.; Hix, D.; Sette, A.; Peters, B., The immune epitope database (IEDB) 3.0. *Nucleic acids research* 2015, 43 (Database issue), D405-12.
- Vázquez-Prieto, S.; Paniagua, E.; Ubeira, F. M.; González-Díaz, H., QSPR-Perturbation Models for the Prediction of B-Epitopes from Immune Epitope Database: A Potentially Valuable Route for Predicting “In Silico” New Optimal Peptide Sequences and/or Boundary Conditions for Vaccine Development. *International Journal of Peptide Research and Therapeutics* 2016, 1-6.

3. Gonzalez-Diaz, H.; Perez-Montoto, L. G.; Ubeira, F. M., Model for vaccine design by prediction of B-epitopes of IEDB given perturbations in peptide sequence, in vivo process, experimental techniques, and source or host organisms. *Journal of immunology research* 2014, 2014, 768515.
4. Peters, B.; Sidney, J.; Bourne, P.; Bui, H. H.; Buus, S.; Doh, G.; Fleri, W.; Kronenberg, M.; Kubo, R.; Lund, O.; Nemazee, D.; Ponomarenko, J. V.; Sathiamurthy, M.; Schoenberger, S.; Stewart, S.; Surko, P.; Way, S.; Wilson, S.; Sette, A., The immune epitope database and analysis resource: from vision to blueprint. *PLoS biology* 2005, 3.