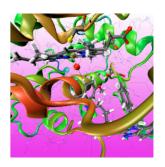## *Foundation Biographics Laboratory 3R*

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The *VirtualToxLab™* is an *in silico* tool for predicting the toxic potential (endocrine and metabolic disruption, some aspects of carcinogenicity and cardiotoxicity) of drugs, chemicals and natural products. The technology is based on a automated protocol — accessible through the Internet — and calculates the binding affinity of any molecule of interest towards a series of 16 proteins (the androgen, aryl hydrocarbon, estrogen α/β, hERG, glucocorticoid, mineralocorticoid, thyroid α/β, liver X, progesterone and the peroxisome proliferator-activated receptor γ as well as the enzymes cytochrome P450 1A2, P450 2C9, P450 2D6 and P450 3A4) known or suspected to trigger adverse effects and estimates its toxic potential. The *VirtualToxLa* allows verifying a prediction at the molecular level by visualizing the binding mode of the tested compound with all target proteins in real-time 3D and atomic resolution.

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