

In silico design of potent agonists for human PPAR y

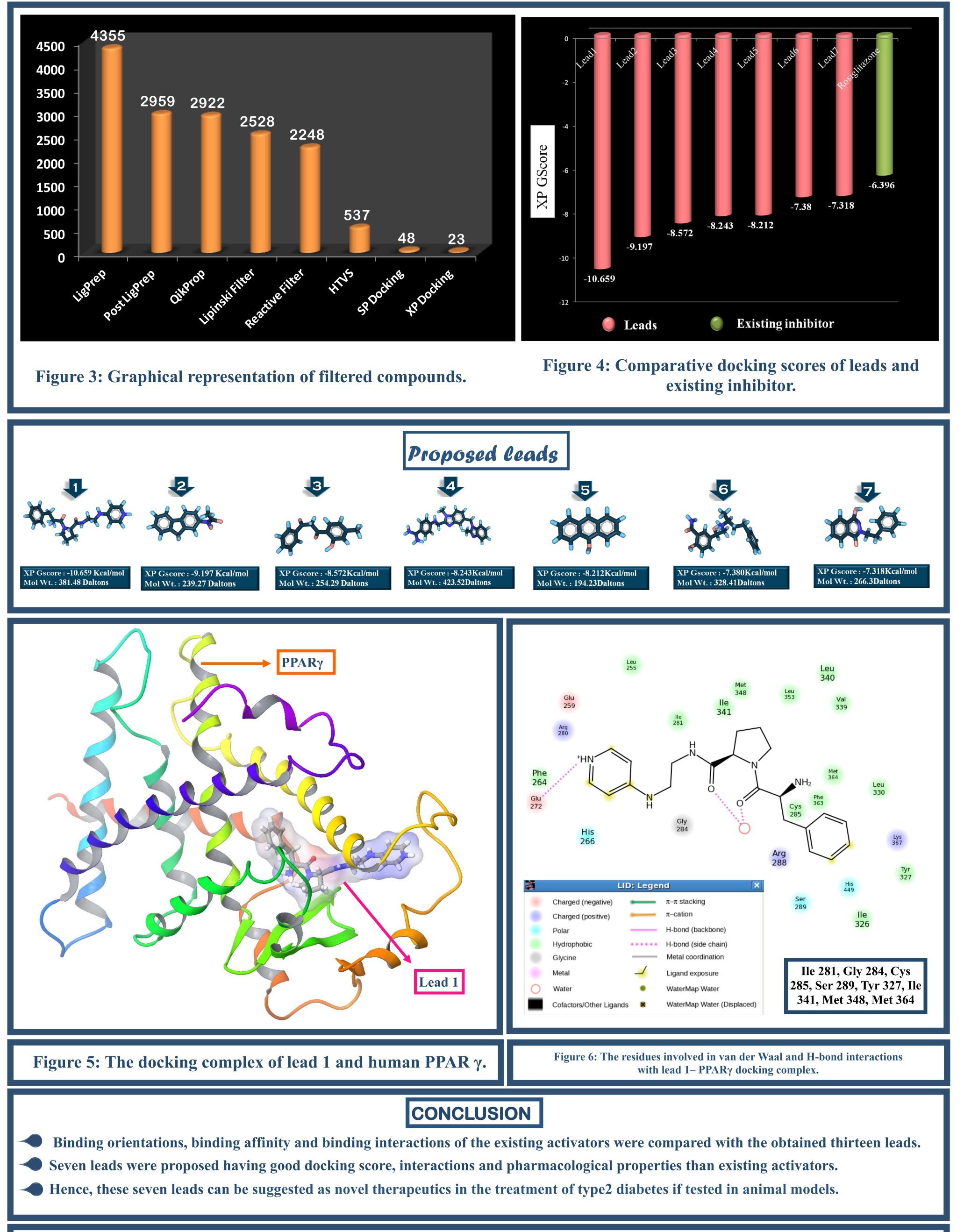
Navya Pallapotu*, Divya.M, Kanipakam Hema, Amineni Umamaheswari** **Bioinformatics Centre, Department of Bioinformatics, SVIMS University, Tirupati -517507.** *Presenting Author, ** Corresponding Author, Email: svims.btisnet@nic.in



Peroxisome proliferator-activated receptor (PPAR γ) acts as a key regulator on adipocyte differentiation and glucose homeostasis.

- PPAR γ has been down regulated in type 2 diabetes.
- In silico screening was carried out to find potent agonists for human PPARy.
- Structural analog search and interaction studies were performed to design an "ideal drug" by using the existing activators which have some adverse effects like fluid retention and worsen congestive heart failure.

RESULTS AND DISCUSSION



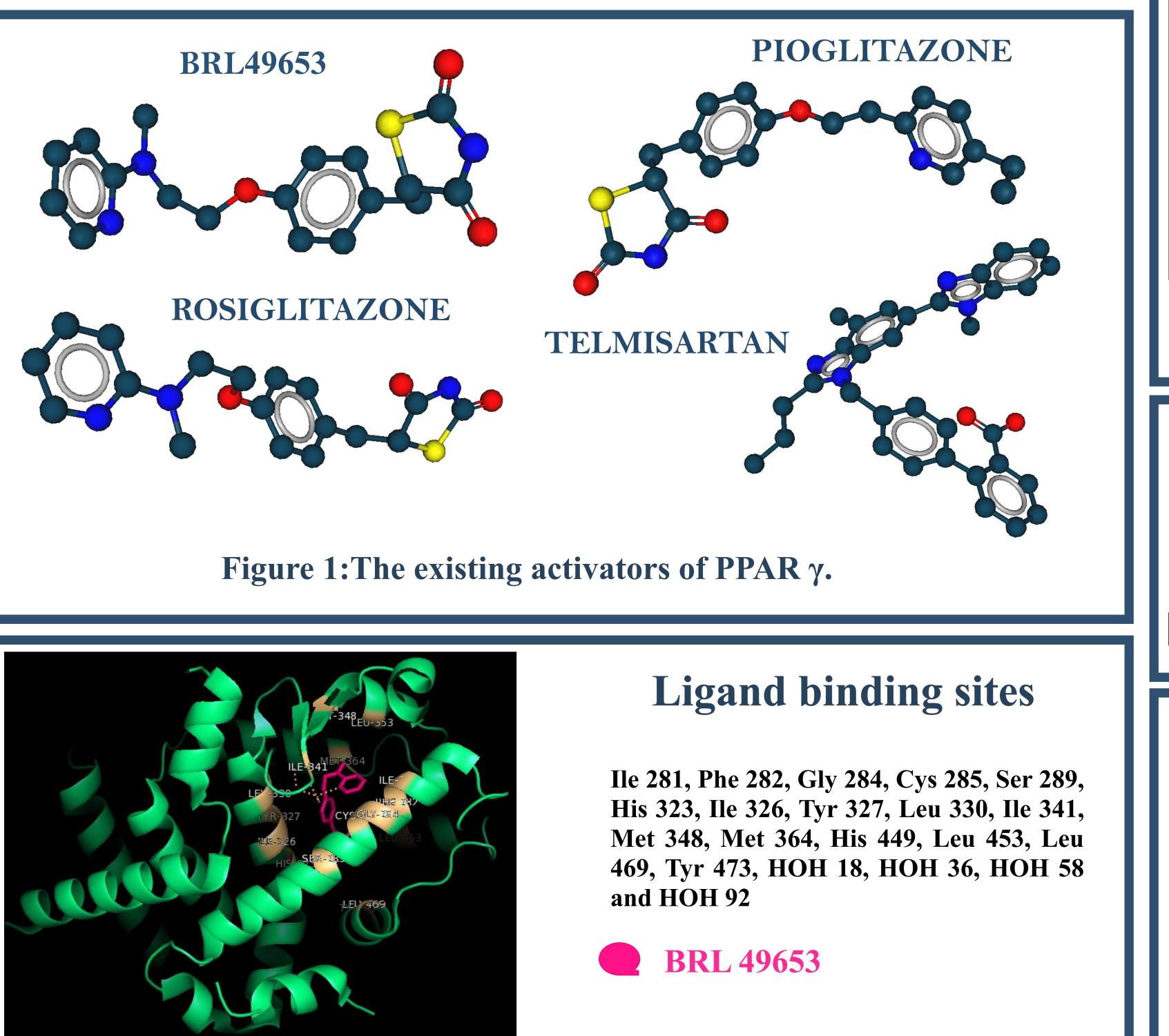
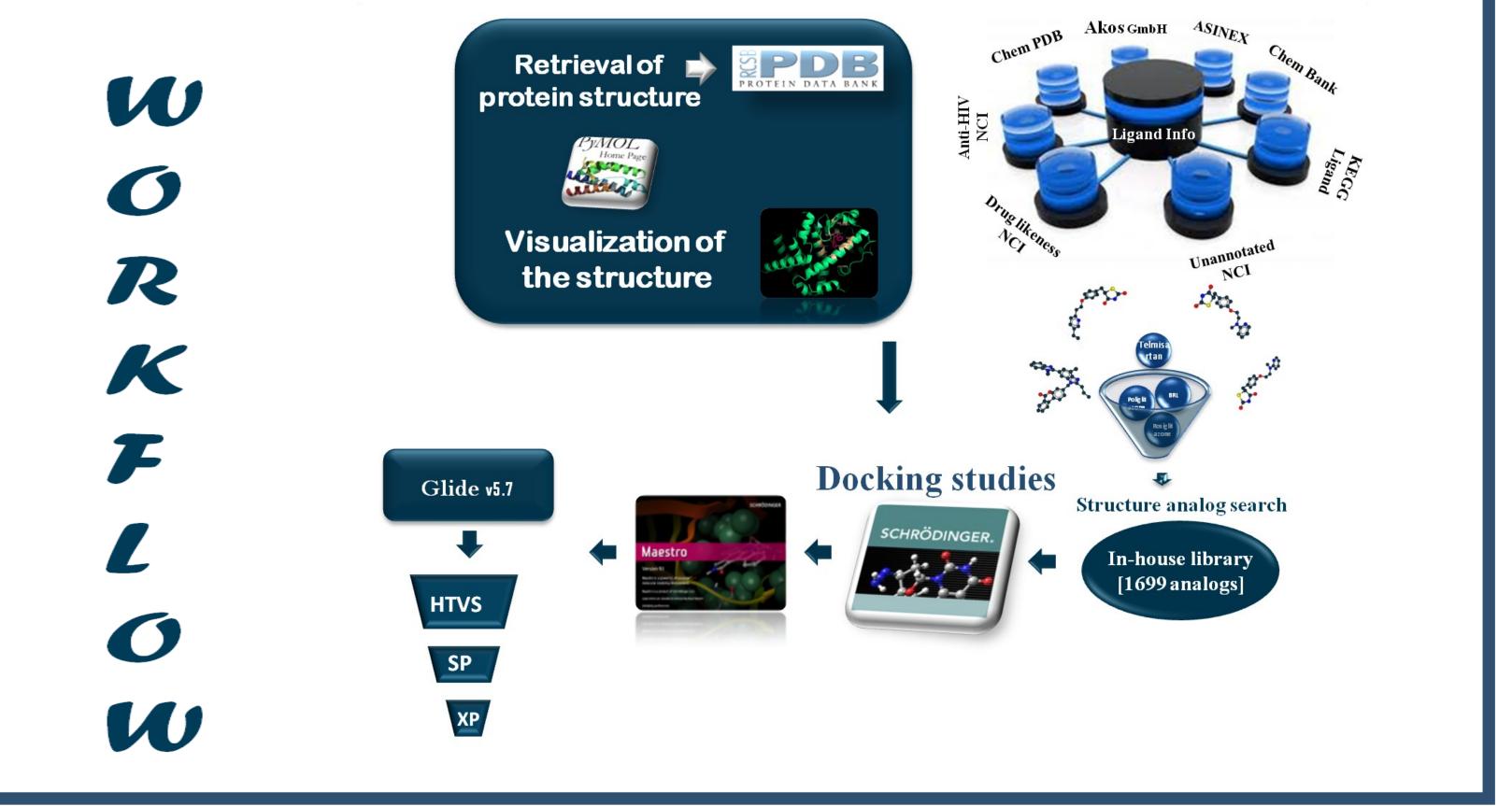


Figure 2: The co-crystal structure of human PPAR γ [1ZGY] with BRL49653.





ACKNOWLEDGEMENT