## Synthesis, Biological Evaluation of Novel Compounds 2-Substituted-6-(furan-2-yl)-6H-chromeno-(4,3-b)quinoline and their Derivatives

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Quinolines are significantly important compounds due to their wide range of pharmacological activities behaving like anti-malarial, anti-inflammatory, anti-asthmatic, anti-hypertensive and tyrosine kinase inhibiting agents. In addition to medicinal applications, quinoline derivatives are found to undergo hierarchical self-assembly into a variety of nano-structures and meso-structures with enhanced electronic and photonic functions. 2-Substituted-6-(furan-2-yl)-6H-chromeno-(4,3-b)quinoline were synthesized by condensation between E-3-(furan-2-yl)-1-(2-hydroxy-5-substituted phenyl) prop-2-en-1-one and orthoaminobenzaldehyde in presence of acedic medium to give good yield percentage.

All the synthesized compounds were characterised by <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, IR, MASS-spectral studies and elemental analysis. All the synthesized compounds were subjected to biological evaluation studies. More information on this examination will be described in this presentation.