scotogenic DM

$$h_{i\alpha}\overline{L_i}\tilde{\eta}N_{R\alpha}$$

 $Singlet-doblet-complet Complet Complet <math>V(\eta,\sigma,H)$

$$k_{lpha}N_{Rlpha}^{c}N_{Rlpha}S^{*}$$

$$g' Z'_{\mu} \sum_{F} q_{F} \overline{F} \gamma^{\mu} F$$

Dark scalar portal