ABSTRACT BOOK ABSTRACTS



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ACNE, ROSACEA, AND RELATED DISORDERS (INCLUDING HIDRADENITIS SUPPURATIVA)

NON-CLINICAL AND HUMAN PHARMACOLOGY OF THE POTENT AND SELECTIVE TOPICAL RARγ AGONIST TRIFAROTENE

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Introduction: Retinoids have a dominant role in topical acne therapy and to date, only RAR β and RAR γ dual agonists have reached the market.

Objectives: to confirm the hypothesis that developing RAR_Y –selective agonists could yield a new generation of topical acne treatments that would increase safety margins while maintaining the robust efficacy of previous drugs.

Materials and Methods: Structural knowledge derived from the X-Ray structure of known RARγ-selective molecule. Design, synthesis and in vitro evaluation of a novel triaryl series of RARγ agonists were performed including structure activity and property relationship.

Results: Results revealed an unique and isotype specific pocket in the RAR_Y ligand binding domain thus enabling the optimization of a novel triaryl series of RAR_Y selective agonist for topical administration.

Conclusions: Structural information led to the discovery of Trifarotene, a new RARy –selective agonist as a potential new generation of topical acne treatments.



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