

Treatment Programment Planton Baltimore, MD, USA

Lung Cancer

Tissue biopsy

Aprentical Tackets 30 mg

Aprentical Tackets 30 mg

Lung Cancer

Tissue biopsy

Additional testing

Lung Cancer

Lung Cancer

Tissue biopsy

Additional testing

Lung Cancer

Lung Cancer

Tissue biopsy

Additional testing

Biological

therapy trial

Biopsy

#ASDP25

@ in

Topical/oral

therapy trial

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Plaque Psoriasis

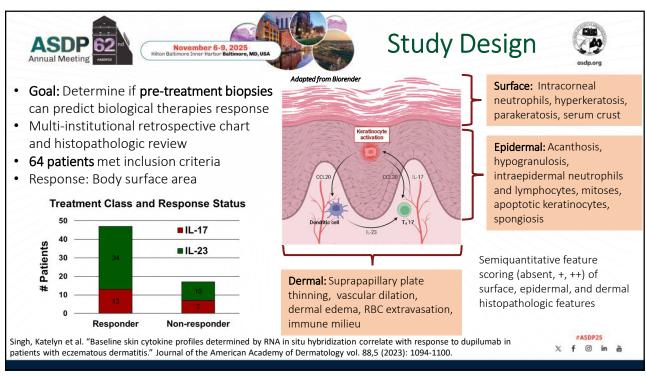


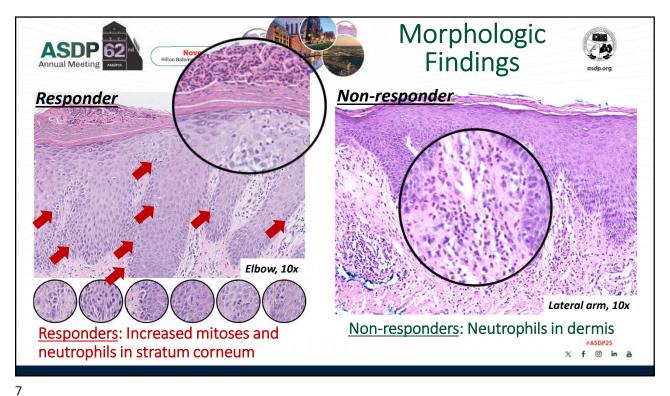


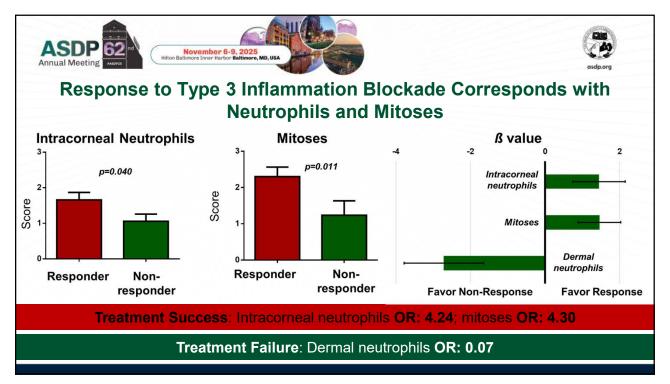
Who will benefit from biological therapies?

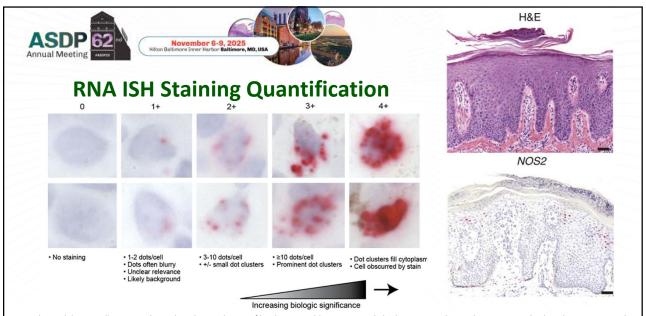
- Some patient characteristics (smoking, BMI, sex, comorbidities) are associated with treatment failure
- · Attempts at prediction:
 - Genetic markers (HLA typing, TNF polymorphisms) → non-specific, expensive
 - Serum markers (CRP, ESR, C3, interleukins) → non-specific
 - · Tissue tests:
 - Gene expression profiling: Expensive, not yet easily scalable
 - NOS2: Favors psoriasis over eczema; IL13: Favors eczema over psoriasis
 - IHC such as IL-36: Not yet routinely available, further studies needed
- Wang A, Fogel AL, Murphy MJ, et al. Cytokine RNA In Situ Hybridization Permits Individualized Molecular Phenotyping in Biopsies of Psoriasis and Atopic Dermatitis. JID Innov. 2021;1(2):100021.
- · Garzorz-Stark N, Krause L, Lauffer F, et al. A novel molecular disease classifier for psoriasis and eczema. Exp Dermatol. 2016;25(10):767-774.
- Köhler I, Bivik Eding C, Kasic NK, Verma D, Enerbäck C. NOS2-derived low levels of NO drive psoriasis pathogenesis. Cell Death Dis. 2024;15(6):449.
- Zhang WR, Bhutani T, North JP. The Association of Interleukin-36 Staining Intensity and Response to Biologic Therapy in Patients With Psoriasis: A Retrospective Immunohistochemical and Chart Review Pilot Study. J Cutan Pathol. 2025;52(1):48-53.

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- Singh K, Valido K, Swallow M, et al. Baseline skin cytokine profiles determined by RNA in situ hybridization correlate with response to dupilumab in patients with
 eczematous dermatitis. J Am Acad Dermatol. 2023;88(5):1094-1100.
- Wang A, Fogel AL, Murphy MJ, et al. Cytokine RNA In Situ Hybridization Permits Individualized Molecular Phenotyping in Biopsies of Psoriasis and Atopic Dermatitis. JID Innov. 2021;1(2):100021.

