

Castle Creek Pharmaceuticals

Dermatology Summit Entrepreneurial Showcase 2018

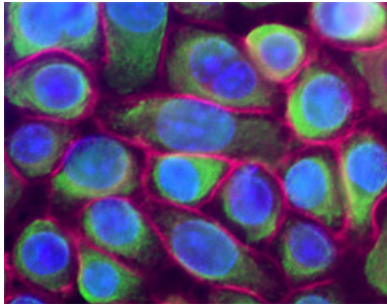
Michael Derby, CEO
January 7, 2018



Castle Creek Pharma

Driving innovation in dermatology

We are a high-growth biotech company focused on identifying, developing and commercializing **innovative drugs that address high unmet medical needs in dermatology**



- ❖ Rare genetic orphan dermatology with potential **first ever drug approvals**
- ❖ Broad dermatology with **differentiated products**



- ❖ Ongoing Phase 3 for high potential **rare dermatologic condition (epidermolysis bullosa simplex)** with no approved treatments and significant unmet need
- ❖ Potentially **disease modifying therapy** with \$1bn+ peak sales potential

Our Dermatology Development Pipeline

High potential candidates targeting multiple indications

	2018	2019	2020	2021	2022	Est Peak Sales
Orphan Dermatology						
CCP-020 (topical diacerein) <i>Epidermolysis bullosa simplex (EBS)</i>	Phase 3	● NDA Filing				\$1bn +
CCP-060 <i>Rare genetic dermatologic condition</i>	Preclinical	Phase 3				\$300mm +
CCP-070 <i>Rare genetic dermatologic condition</i>	Preclinical	Phase 1/2	Phase 3			\$100mm
Total Orphan Derm						\$1.4bn +
Broad Dermatology						
CCP-050 <i>Atopic dermatitis (AD)</i>	Phase 2	Phase 3				\$500mm +
CCP-043 <i>Severe acne</i>	Preclinical	Phase 1/2	Phase 3			\$500mm +
CCP-070 <i>Vitiligo</i>	Preclinical	Phase 1/2	Phase 3			\$1bn +
Total Broad Derm						\$2bn +
Total Derm						\$3.4bn +

Our Leadership Team

Deep expertise in dermatology and rare disease



	Name	Prior Experience
	Michael Derby <i>Founder and Chief Executive Officer</i>	Senior Executive of Marathon Pharmaceuticals, Founder/CEO of Norphan Pharmaceuticals (sold to Marathon), EGS Healthcare Capital Partners, Merck & Co.
	Greg Licholai, MD <i>President and Chief Medical Officer</i>	President, Rare Disease Unit of Moderna Therapeutics, McKinsey & Co., Proteostasis, Amicus, Domain Associates, Medtronic
	Amir Tavakkol, PhD <i>EVP and Chief Development Officer</i>	Chief Development Officer of Viamet, Senior Executive of Topica, Merck & Co., Schering Plough, Novartis, Colgate Palmolive, University of Michigan
	John Koconis <i>EVP and Chief Commercial Officer</i>	President of LEO Pharma, Senior Executive of Sanofi Genzyme, Abbott Laboratories
	Regina Donohue <i>Vice President, Human Resources</i>	LEO Pharma, Alpharma

A Strong Investor Base

Industry leaders with proven records of success



❖ July 2015

- Initial investment from Paragon Biosciences and Valor

❖ September 2016

- Series A Financing of \$48 million from Fidelity Investments

Understanding Epidermolysis Bullosa

The worst disease you've never heard of

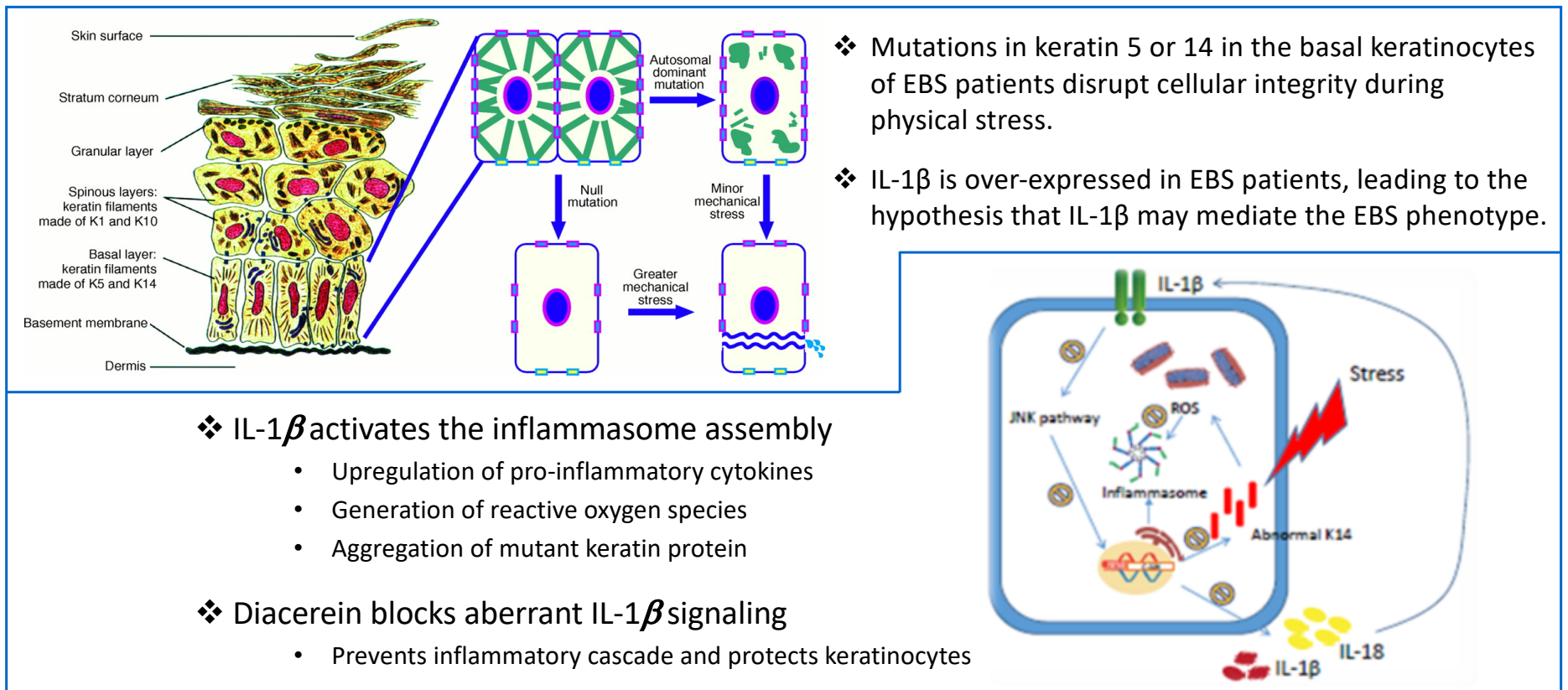
Epidermolysis bullosa (EB) is a rare genetic connective tissue disorder that affects approximately 1 in 20,000-50,000 births. **There are no FDA-approved therapies for any type of EB.**



- ❖ EB manifests as fragile skin causing local to widespread blistering
- ❖ Estimated 20,000 patients (many children) in the U.S. and >500,000 worldwide
- ❖ Estimated 70%-90% of EB patients have EB Simplex (EBS)
- ❖ Current treatment focuses on symptoms, such as itching, pain and wound care
- ❖ Our investigational medicine, CCP-020, is a potentially **disease modifying therapy** to reduce blister formation in EBS patients

Understanding Epidermolysis Bullosa Simplex

Aberrant IL-1 β signaling in disease pathogenesis



Evaluating topical diacerein in EBS

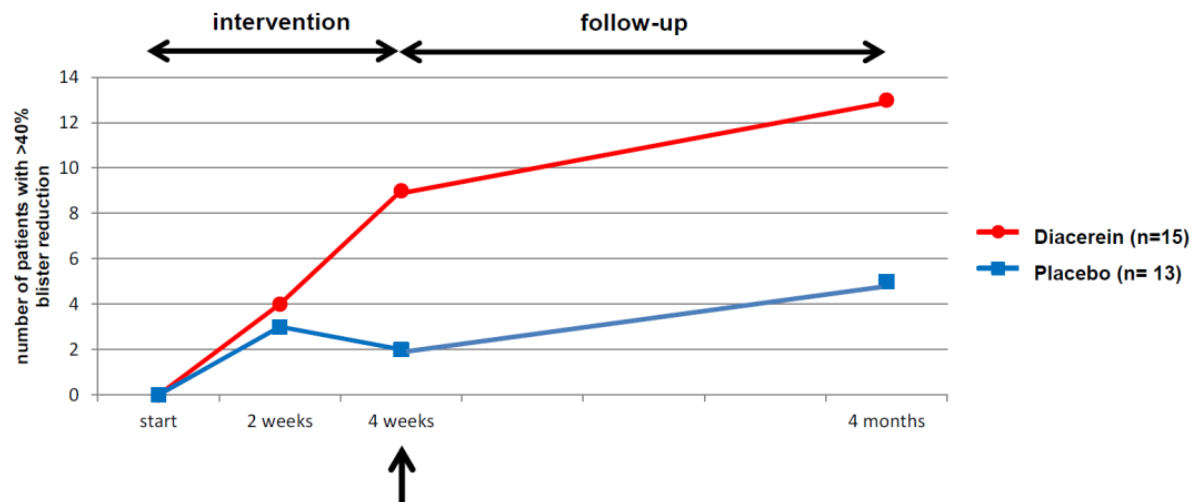
An overview of the Phase 2 study design

Title	Phase 2 Study: Topical diacerein for the treatment of EBS
Primary Objective	Reduction in blister number by 40% in treated skin area (3% body surface area) vs. placebo at 4 weeks
Secondary Objective	Time to return to initial blister number (+/- 10%) during follow up
Study Design	Placebo controlled, randomized, double blinded Part 1: intervention Part 2: follow up Cross-over design
Study Population	Generalized-severe EBS Mutations in K5 or K14 Age 4-19
Patient Number	17
Therapy	Once daily self application
Time Schedule	Intervention phase: 4 weeks Follow up phase: 12 weeks

Evaluating topical diacerein in EBS

Phase 2 study results

Reduction of blister numbers by 40% on treated skin areas compared to placebo after 4 weeks



Highly significant difference in responders (defined as >40% reduction in blister number) between treatment and placebo groups at 4 weeks, with continued improvement persisting out to 4 months.

CCP-020 (diacerein 1% ointment) in EBS

Phase 3 study (*DELIVERS trial*) design



Title	Phase 3 Study: CCP-020 for the treatment of EBS
Primary Objective	Blister surface area improvement of at least 40% vs. placebo at 16 weeks
Secondary Objectives	Investigator Global Assessment (IGA) Patient reported outcomes (pain, itch) Adverse events
Study Design	Placebo controlled, randomized, double blinded, multi-center global trial Intervention and follow up Parallel group design
Study Population	Genetically confirmed diagnosis of EBS Level 3/4 on IGA scale of disease severity Age 4+
Patient Number	80
Therapy	Once daily self application
Time Schedule	Intervention phase: 8 weeks Follow up phase: 8 weeks

Castle Creek 2018 Milestones

A year of tremendous growth

- ❖ Completion of DELIVERS trial, targeted Q4 2018
- ❖ Advancement of each of our additional pipeline products into mid/late stage clinical development
- ❖ Completion of sale or partnership of non-strategic assets
- ❖ Potential private financing round to support advancement of pipeline and other corporate objectives

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