

36th Annual
J.P. Morgan Healthcare Conference



A Taiwanese Leading Biotech Since 1997

中天生技集團簡介

- **1997** 成立已有**4** 家公開發行
- 已累計投資總值達**7** 億美金
- **12** 個新藥
- **4** 個研發中心
- 在台灣有**2**座PIC/s GMP 等級生產廠
- 在中國有**1** 座GMP 等級生產廠
- **80** 位以上科學家+ **5** 個合作研究機構

研發新藥產品線

Phase 1

Phase 2

Phase 3

Approved

OB318

HCC

MB-110

HCV

FB704A

Anti-IL-6

FB317

Anti-IgE

SNP630

NASH

SNP810

Analgesic and
antipyretic

FB825

Anti-C α mX

ON101

Diabetic Foot Ulcer

MB-6

Colon Cancer

MS-20

Oncology

Herbiron

Anemia

2 個已上市以及8個臨床研究階段藥物



**MICROBIO
GROUP**

www.microbiogp.com

ON101 (糖尿病足部潰瘍軟膏)

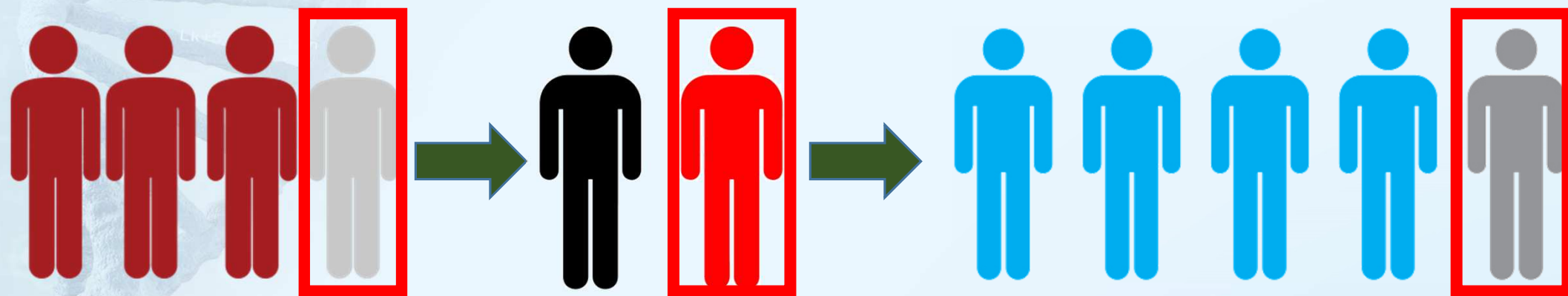
優異的臨床三期期中分析結果

傷口癒合率 > 60%

DFU尚未被滿足的醫療需求



全球糖尿病患達425 million



25% 罹患DFU

>50% DFU 病患遭受感染

20% DFI 病患遭到截肢

DFU 的5年死亡率達**50 %**

DFU –沉重的醫療負擔

2014
USA

- DFU imposes substantial burden on public and private payers, ranging from **\$9-13 billion** in addition to diabetes treatment costs.

(Diabetes Care 2014;37: 651-658)

2012
Europe

- The estimated costs associated with treatment of DFU are **EUR 10 billion** per year in Europe.

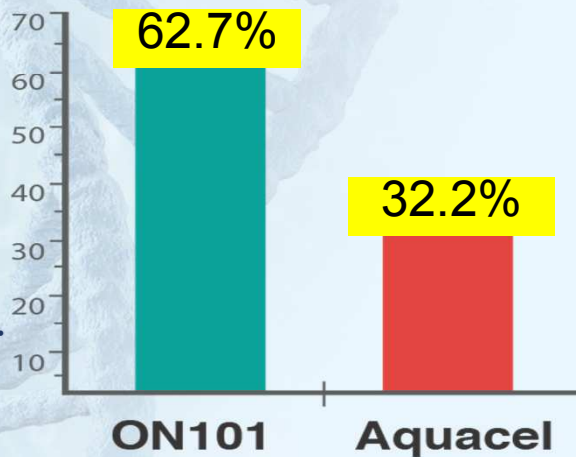
(Int Wound J 2013; 10: 555-561)

2018
China

- There are estimated **7 million** DFU patients in China costing **\$21 billion** in medical expenditure from hospital admission per capita is **\$3000**.

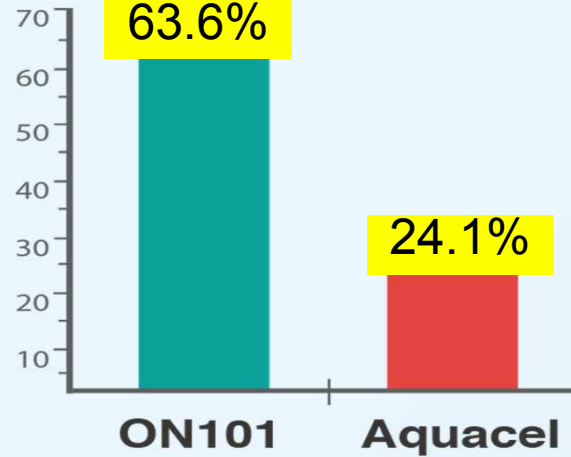
ON101 臨床三期期中分析結果

► Overall Group



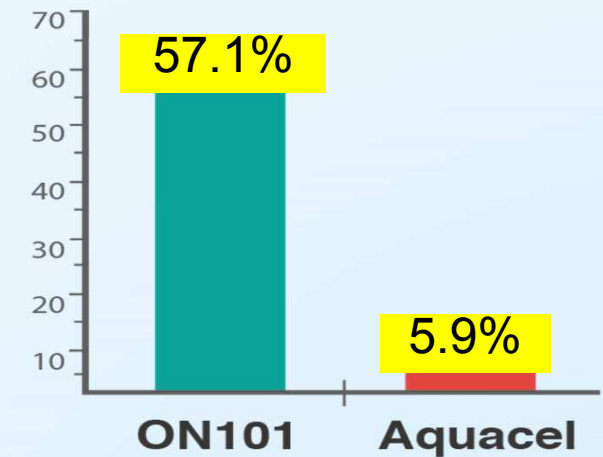
Difference = 30.5% ($p < 0.001$)

► Plantar Ulcers Group



Difference = 39.5% ($p = 0.002$)

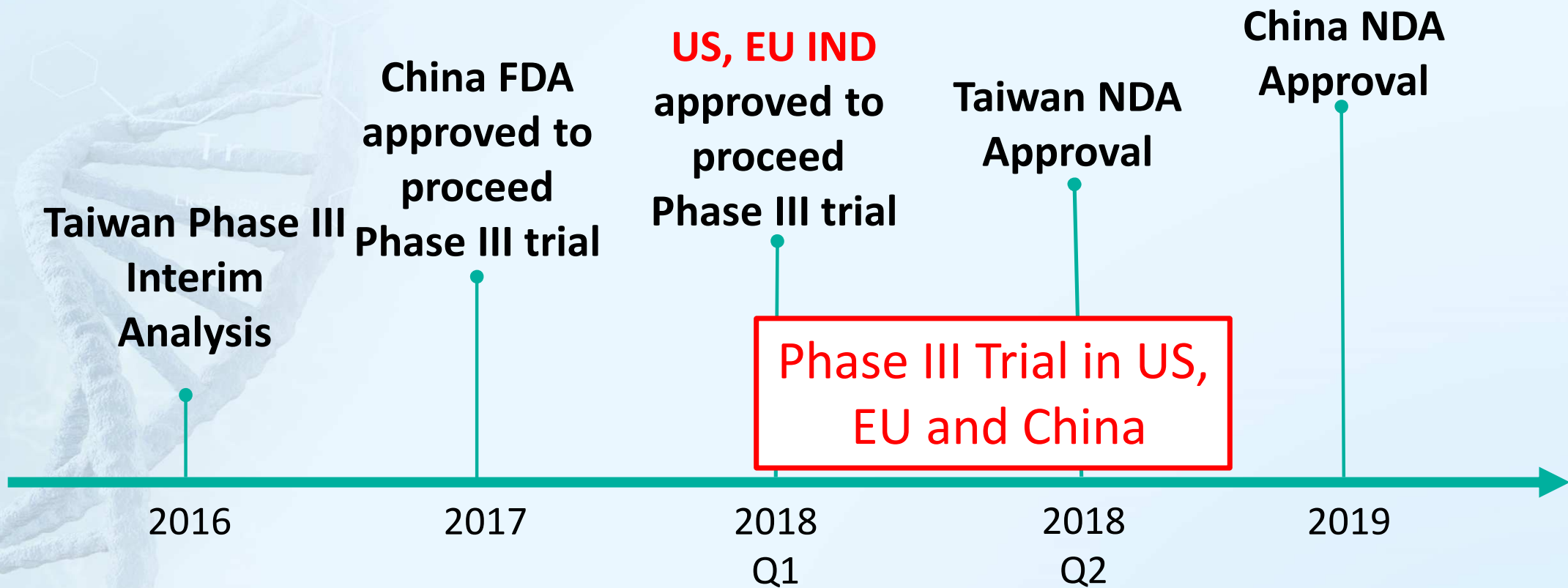
► Large Wound Size (> 5 cm²) Group



Difference = 51.2% ($p = 0.002$)

60% 病患在16週內完全癒合

ON101 發展規劃



全球合作研發與授權



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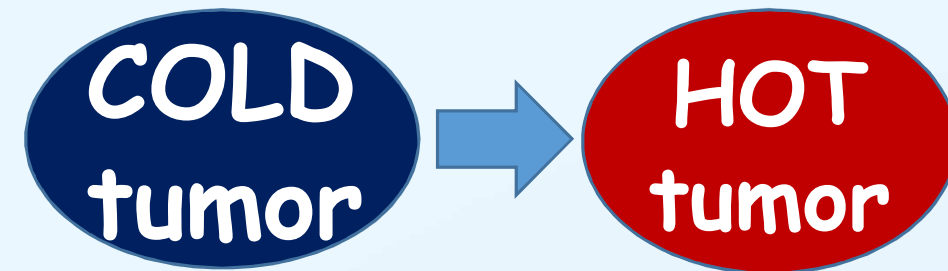
MS20 (腸道菌共生代謝物)

發展全新適應症

人類腸道生態系統以及免疫調節增效藥物

免疫檢查點藥物病患反應率有限

ORR			
	Opdivo	Keytruda	Yervoy
Melanoma	25-35 %	24-32 %	11 %
Lung cancer	41 %	20-26 %	-
Kidney cancer	11-25 %	-	-
Off-label use			
Prostate cancer	-	-	26 %
Triple-negative breast cancer	-	16 %	-
Ovarian cancer	-	12 %	-



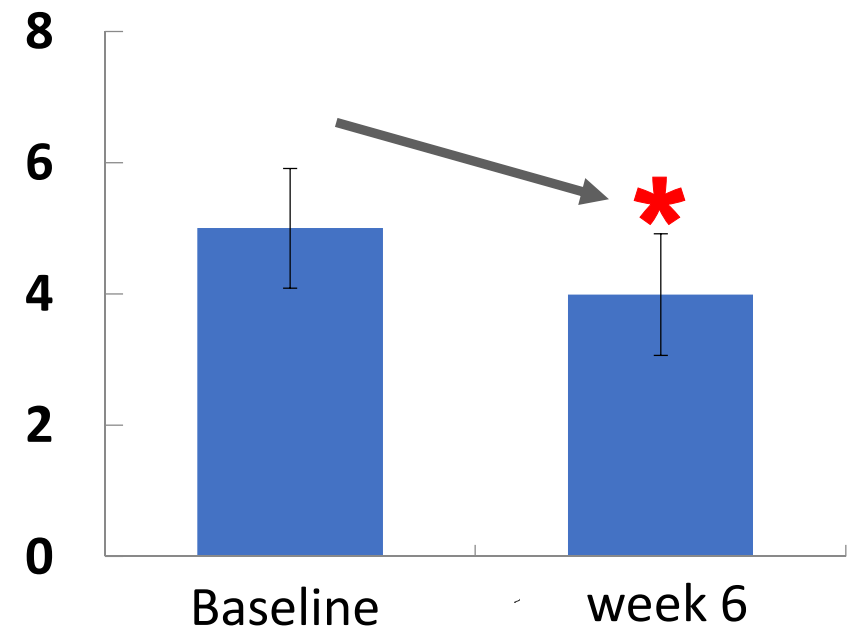
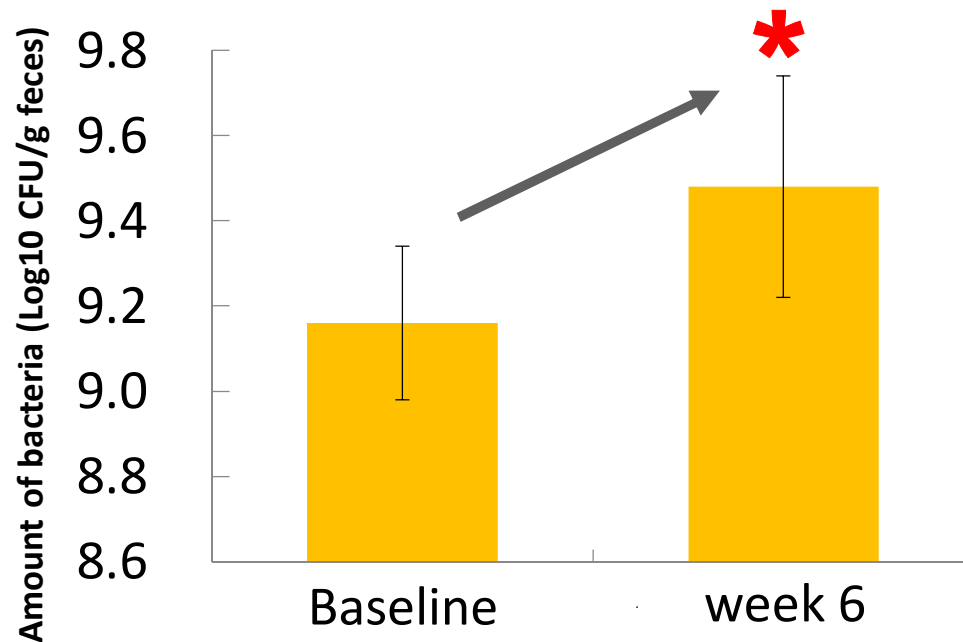
Commensal *Bifidobacterium* promotes antitumor immunity and facilitates anti-PD-L1 efficacy

Science. 2015, 350(6264):1084-1089

MS-20 人類腸道菌群生態系統

Bifidobacterium spp.
(beneficial bacteria)

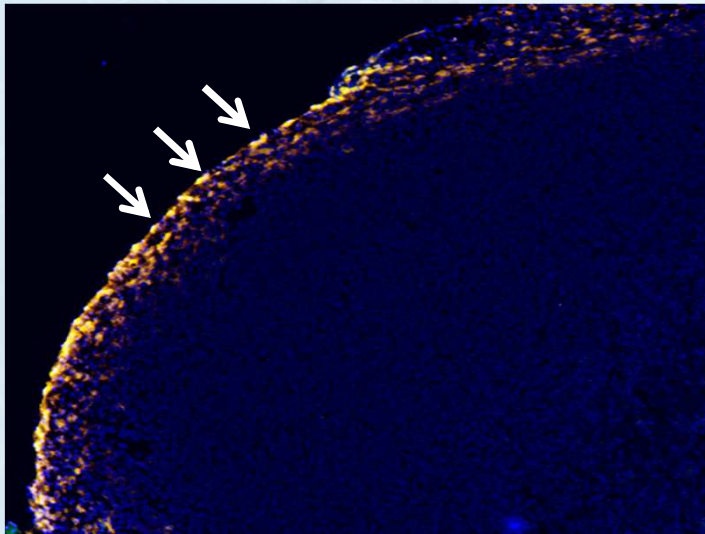
Clostridium perfringens
(gut pathogen)



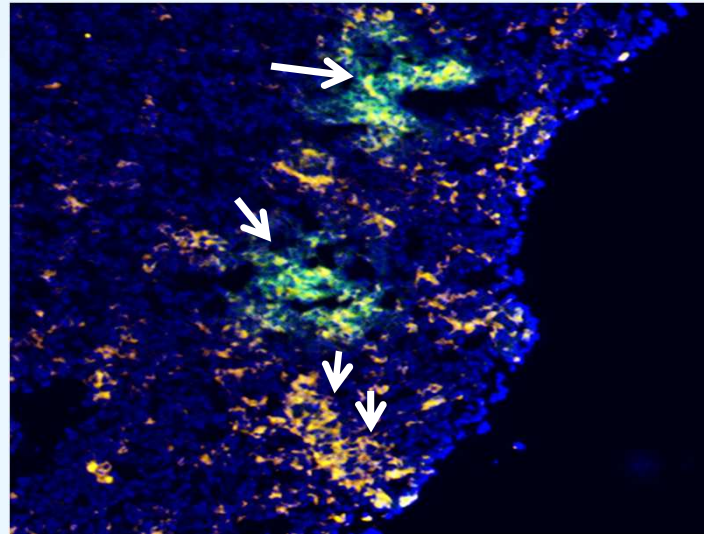
* $p < 0.05$ compared with baseline

MS-20 將冷腫瘤轉變成熱腫瘤

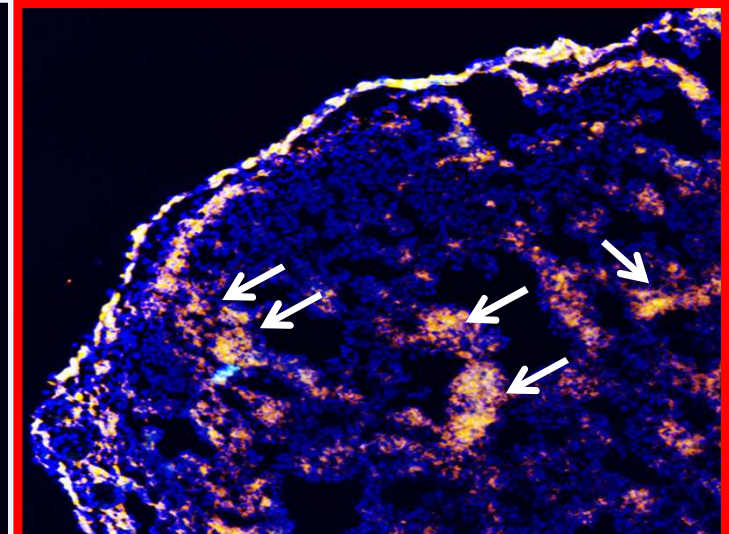
增加CD4⁺/CD8⁺ T 細胞進入腫瘤組織



Vehicle



15% MS-20

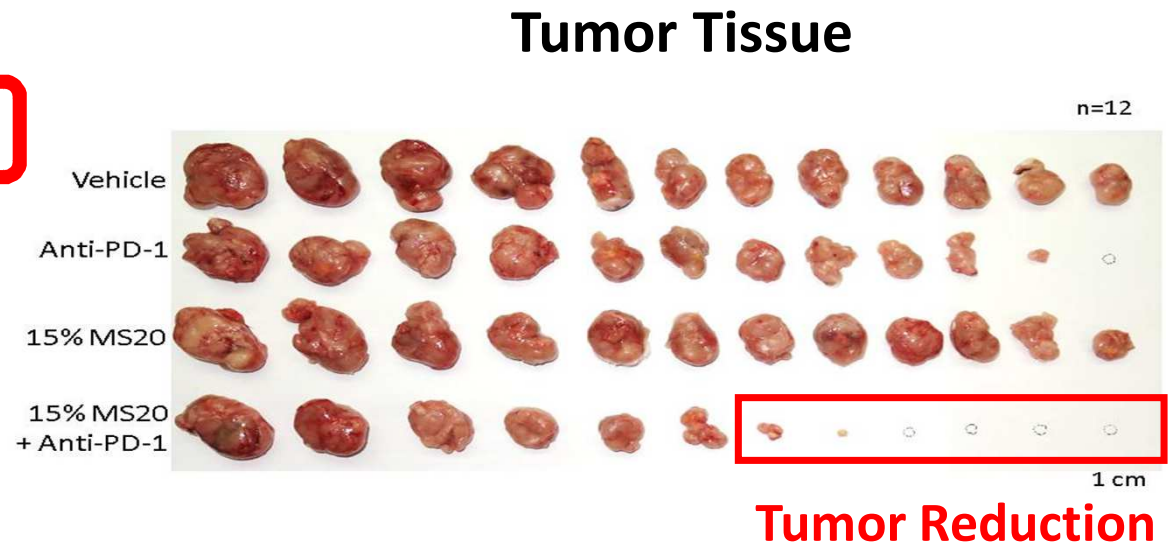
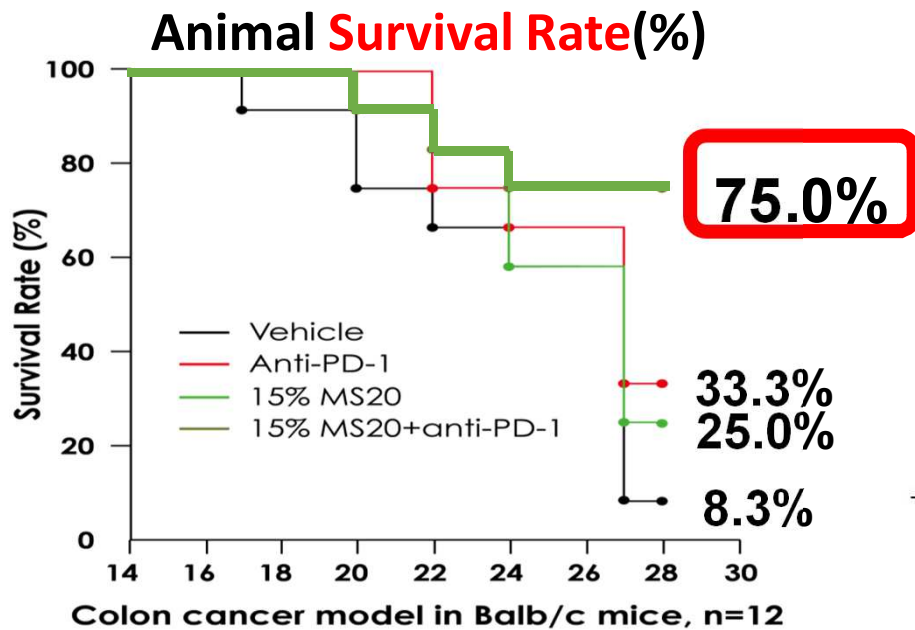


15% MS-20 + anti-PD-1

Blue: Tumor cells ; Green: Dendritic cell
Yellow: CD4⁺ T cells ; Red: CD8⁺ T cells

MS-20 增強抗腫瘤之免疫力

Combination Therapy of MS-20 & Anti-PD-1



增加存活率 降低腫瘤大小

MS-20 機會點



1. 調節腸胃道菌群微環境
2. 增強免疫檢查點藥物應答率

全球合作研發與授權



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FB825 (Anti-CemX單抗新藥)

首次用於病患之數據

中重度異位性皮膚炎

FB825 臨床試驗中心與試驗主持人

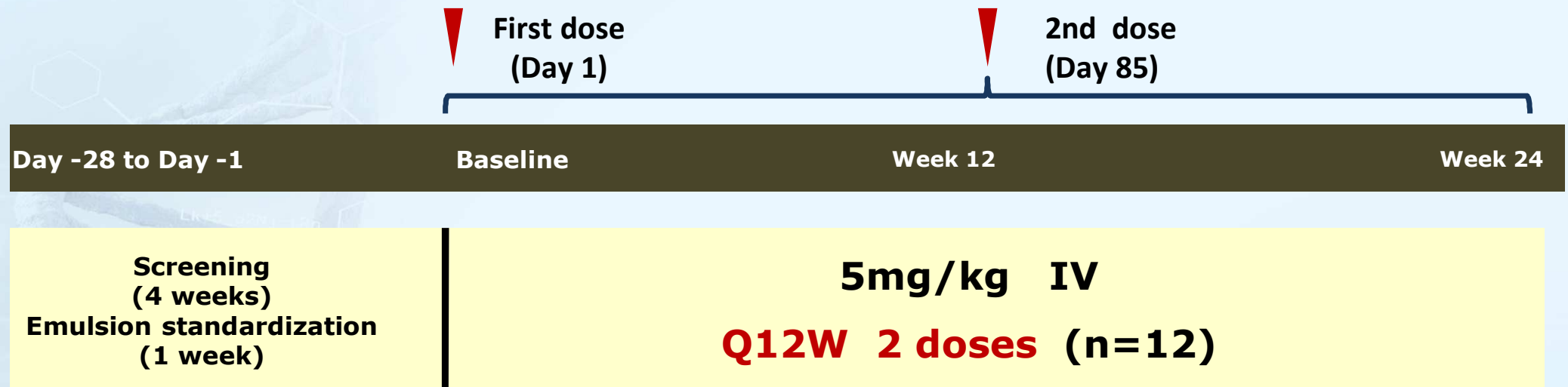
- 台灣頂尖醫學中心

台灣大學附設醫院

- 試驗主持人 朱家瑜醫師 經歷

- 台灣大學附設醫院國際醫療服務中心執行長
- 台灣皮膚科醫學會常務理事
- 中華皮膚科醫學雜誌主編
- 第六屆 Euro-Asian Association of Dermatovenereologists Congress 主席
- 曾經參與執行多個異位性皮膚炎相關之全球性臨床試驗

FB825 臨床試驗設計



- Eczema Area and Severity Index (EASI) score ≥ 14
- Investigator's Global Assessment (IGA) score ≥ 3
- ≥ 10 % body surface area (BSA) of Atopic Dermatitis involvement

**每12週注射一針
用於中重度異位性皮膚炎病患**

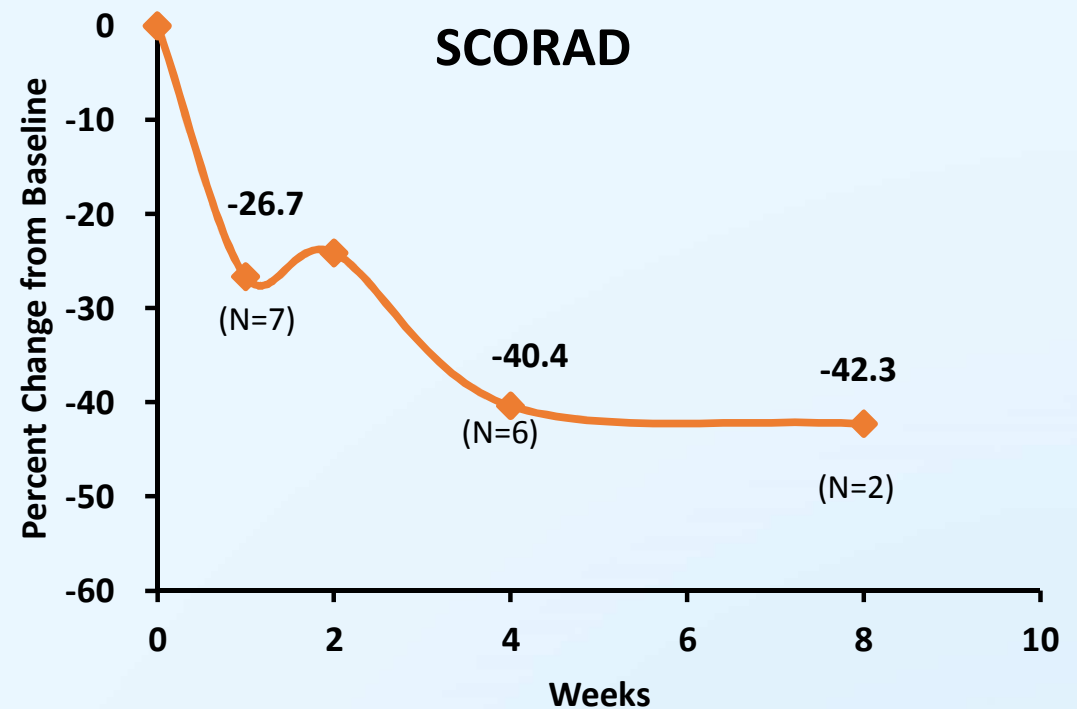
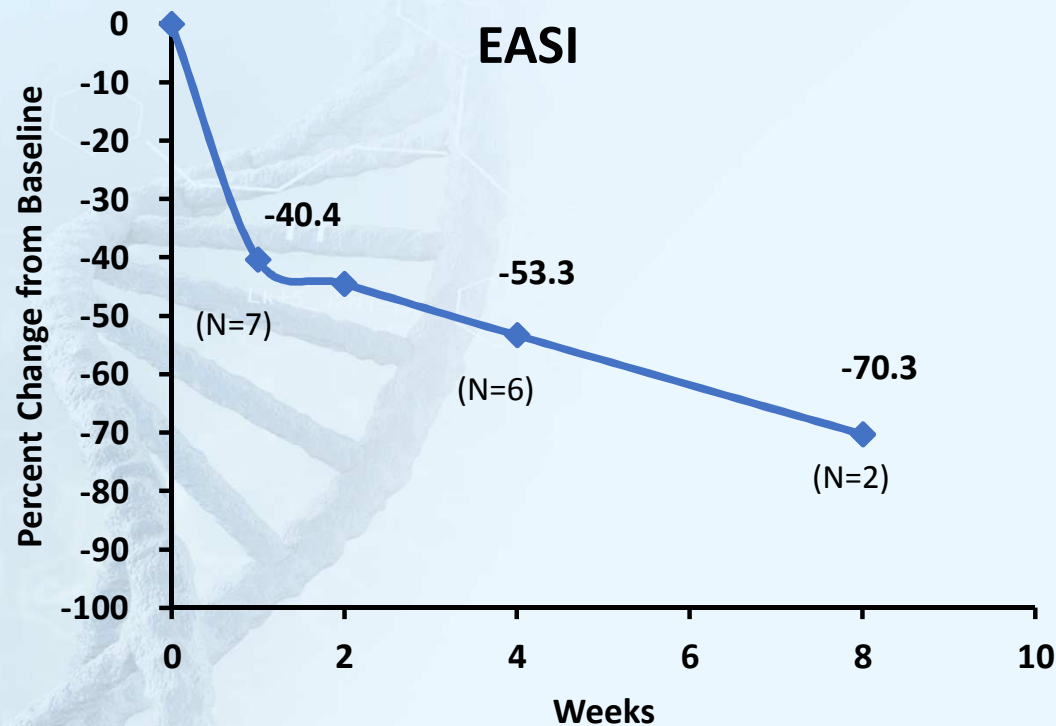
FB825 與Dupilumab之比較

	EASI Score							給藥頻率
	Change from Baseline							
	W1	W2	W4	W8	W12	W13	W16	
FB825	-40%	-45%	-53%	-70%				每12週一針
Dupilumab*	-15%	-35%	-55%	-66%	-70%	NA	-70%	每2週一針

*三期試驗結果, Dupilumab為目前唯一核准之異位性皮膚生物製劑。

FB825在第一週EASI指數改善率為 Dupilumab之260%
第八週FB825注射一針與 Dupilumab注射四針效果相當

FB825 疾病指數明顯下降



FB825注射一針第八週後 EASI指數下降70%
SCORAD指數下降42%

FB825

在異位性皮膚炎取得突破性進展

- **藥效作用快**
 - 注射一針在第一週就能使EASI 指數下降**40%**
- **長效作用**
 - 注射一針藥效持續達**2** 個月
 - FB825注射 **1**針 的效果與dupilumab 注射 **4** 針相當 (根據目前已知結果)
- **低副作用**
 - 未觀察到注射部位的局部反應

FB825

尋求策略合作夥伴

- 藥物授權
- 共同開發





Thank You Very Much