



LHC

LESAFFRE HUMAN CARE

Health benefits of unique and innovative yeast probiotics

中国营养保健食品协会

独特创新的 酵母益生菌的健康益处

Elise Lim

Lesaffre Human Care Singapore, APAC Technical Support Manager

1 November 2018 - Beijing

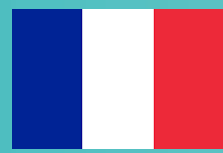
China Nutrition and Health Food Association Conference



CN

中国营养保健食品协会

LESAFFRE
Group
乐斯福集团



Using yeast and other fermentation products, Lesaffre develops, produces and delivers solutions that are tailored to the specific needs of each of our markets
乐斯福利用酵母和其他发酵产品，研发、生产、提供针对我们特定市场需求的解决方案：

- Bakery products
烘焙产品
- Food's taste and pleasure
食物的风味与乐趣
- **Human, Animal and Plant care**
人类, 动物和植物营养与健康
- Industrial biotechnologies
工业生物技术



Working together to better
nourish and protect the planet



LESAFFRE
GROUP KEY
FIGURES



TURNOVER

2 billion euros



EMPLOYEES

10 000

PRODUCTION
SITES

63

in the world



1 BREAD OUT OF 3 IN
THE WORLD MADE
WITH LESAFFRE YEAST



CN

APPLIED SCIENCE CENTERS
中国营养保健食品协会

49

- 38 Baking Center™,**
- 5 Culinary centers - Biospringer,
- 3 Fermentation nutrients labs - Procelys,
- 1 The Farm - Phileo,
- 1 Plant Care Center - Agrauxine,
- 1 Powder Studio® - LIS.

R&D



10
CENTERS



550
EXPERTS



LESAFFRE IS
PRESENT IN

50 countries

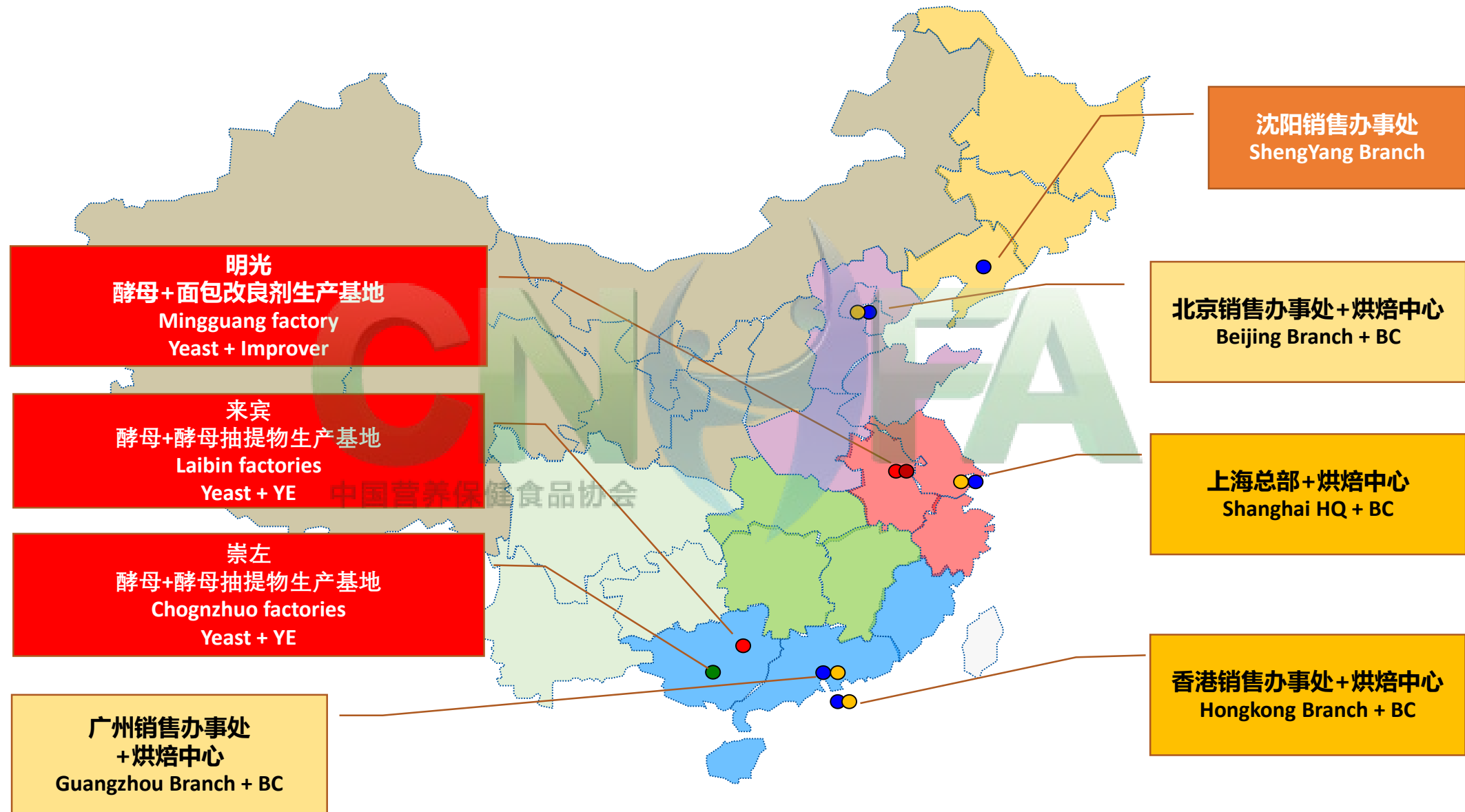
165 years

OF KNOW-HOW



乐斯福在中国

Lesaffre in China





LESAFFRE
HUMAN CARE
乐斯福
人类营养与健康

Yeast applications in Human Health & Nutrition

酵母在人类营养与健康中的应用

Lesaffre Human Care develops products from yeast fermentation
乐斯福人类营养与健康从酵母发酵物中开发产品



Why using **yeast** for Human Health & Nutrition ?
为什么使用**酵母**为人类提供健康&营养？

- For its **nutrients content** : protein, peptides, carbohydrate, glycoprotein, fiber, vitamins, minerals, ...
营养成分：蛋白质、多肽、碳水化合物、糖蛋白、纤维素、维生素、矿物质...
- For its **extracts and fermentation metabolites** : molecules obtained by fermentation process (non-chemical) representing an interest for the human health. These molecules can be purified.
提取物和其发酵代谢物：发酵工艺中所得的分子（非化学合成）对人体健康有益。这些分子可以提纯。
- For its **probiotic benefits**: some strains can be classified as probiotics
益生菌功能：一些特定酵母菌株被归类为益生菌

As defined by the World Health Organization: “Probiotic is live micro-organisms which, when administered in adequate amounts, confer a **health benefit** on the host.”

世界卫生组织对益生菌定义：益生菌是一类活的微生物，在服用特定活性数量后，给宿主带来特定健康功能



IbSium® 营养保健食品协会



ibSium®

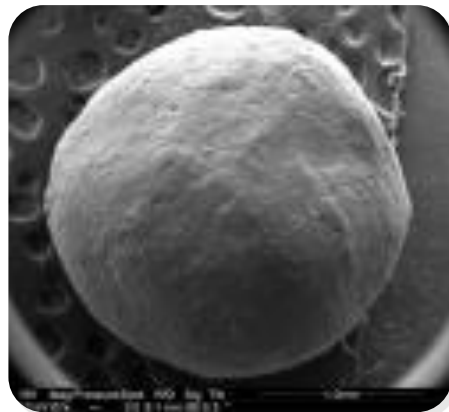
Gastro-intestinal
pain management
肠道疼痛管理

ibSium[®]: / 益碧生[®]: *Saccharomyces cerevisiae* CNCM I-3856

- **Yeast probiotic 酵母益生菌**
- Lesaffre **registered** and **patented strain** 乐斯福独有**专利菌株**: *Saccharomyces cerevisiae* CNCM I-3856 **菌株号**: 酿酒酵母 CNCM I-3856
- **Clinically proven efficacy** : clinical studies conducted on 600 volunteers
临床证明有效:对600名志愿者进行的临床研究
- **Safe and fast-acting 安全、快速见效**
- Selected among Lesaffre's collection of thousand yeasts (based on its preclinical data)
从乐斯福保藏的数千酵母菌株中优选而出(预临床前研究数据)
中国营养保健食品协会
- Consumer study on 1160 patients 对1160名患者进行了消费者研究

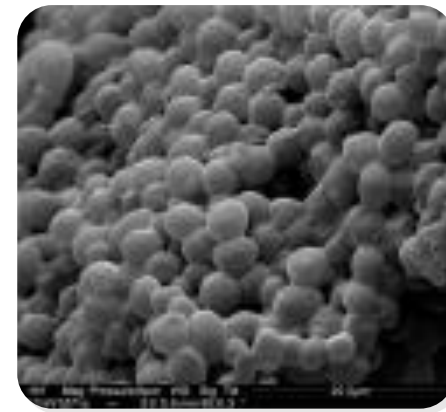


Outside:
Natural shell of
inactivated yeast



Pellet outer layer

Inside:
Active yeast



Inside of the pellet

CLINICALLY PROVEN EFFICACY ON **ABDOMINAL PAIN** MANAGEMENT

临床证明对**肠道疼痛**管理有效

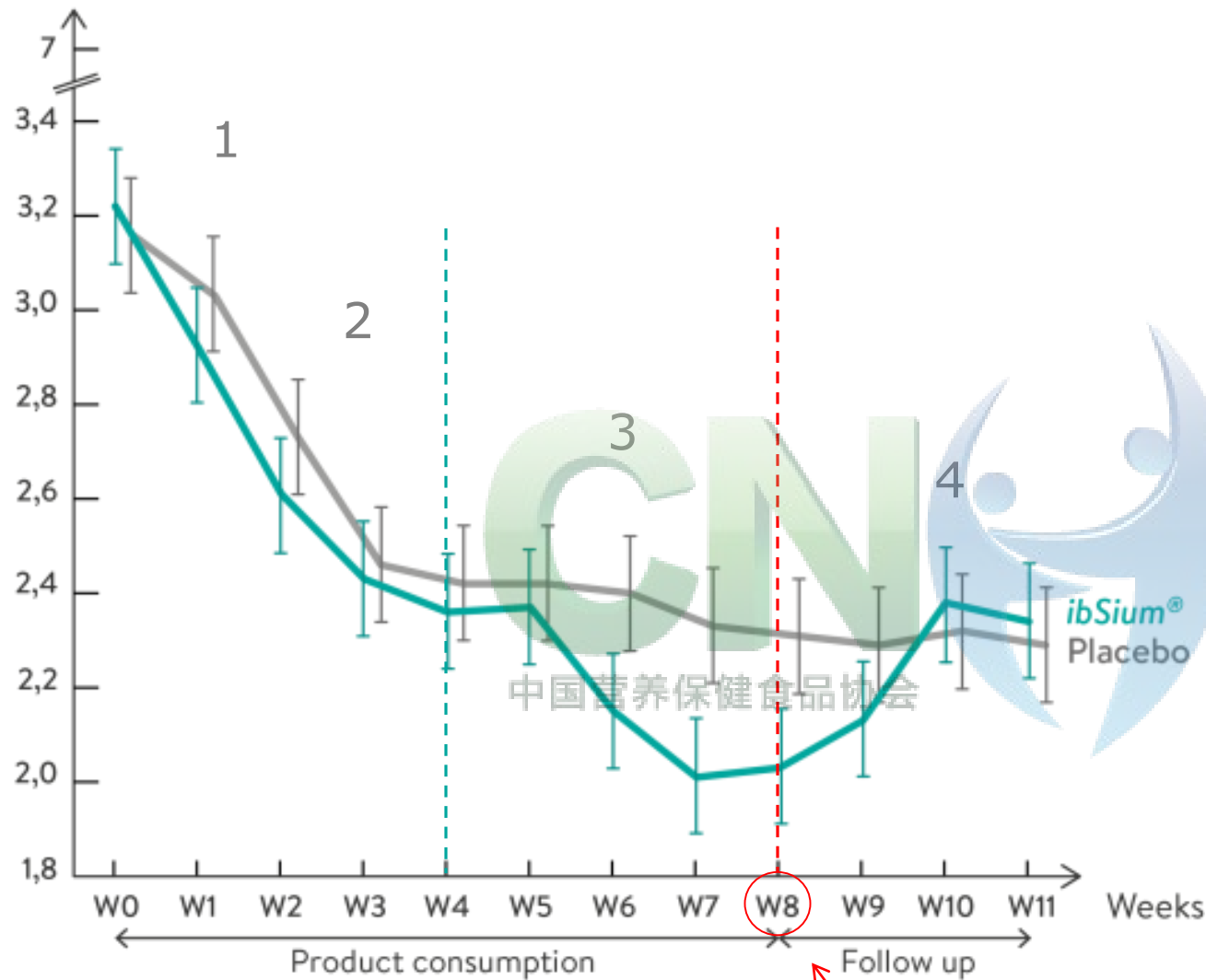


*As for all probiotics, the use of *Saccharomyces cerevisiae* in patients in fragile health conditions (such as high-risk immune-compromised individuals, critically sick infants, pre-term infants...) is contraindicated.

ibSium® : Efficacy on intestinal pain management

宜碧生® : 具肠道疼痛管理的功效

Abdominal/bowel pain and/or discomfort (0 = none - 7 = severe)



Pineton de Chambrun *et al.*, *Dig & Liv Disease*, 2015.

End of product consumption

1

Similarity of both Active and Placebo groups at **baseline**.
基线上产品组和对照组具有相似性

2

After the 2nd week of product consumption, subjects felt a **significant attenuation of abdominal pain versus baseline** ($p < 0,0001$)
服用产品第2周后, 受试者感觉肠道疼痛较基线水平得到显著减轻($p < 0.0001$).

3

Between the 4th and 8th weeks of consumption, the proportion of subjects perceiving a reduction in abdominal pain is **significantly higher with *ibSium*® than in the placebo group** ($p = 0,04$).
第4至第8周期间, 服用益碧生®的受试者中, 感觉肠道痛减轻的人数比例显著高于安慰剂组($p = 0.04$).

4

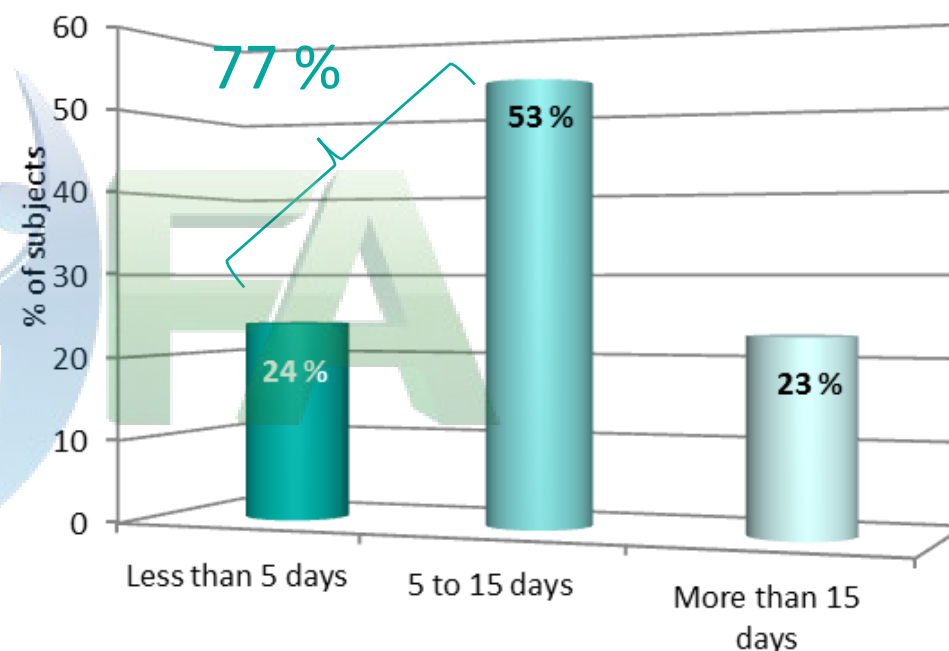
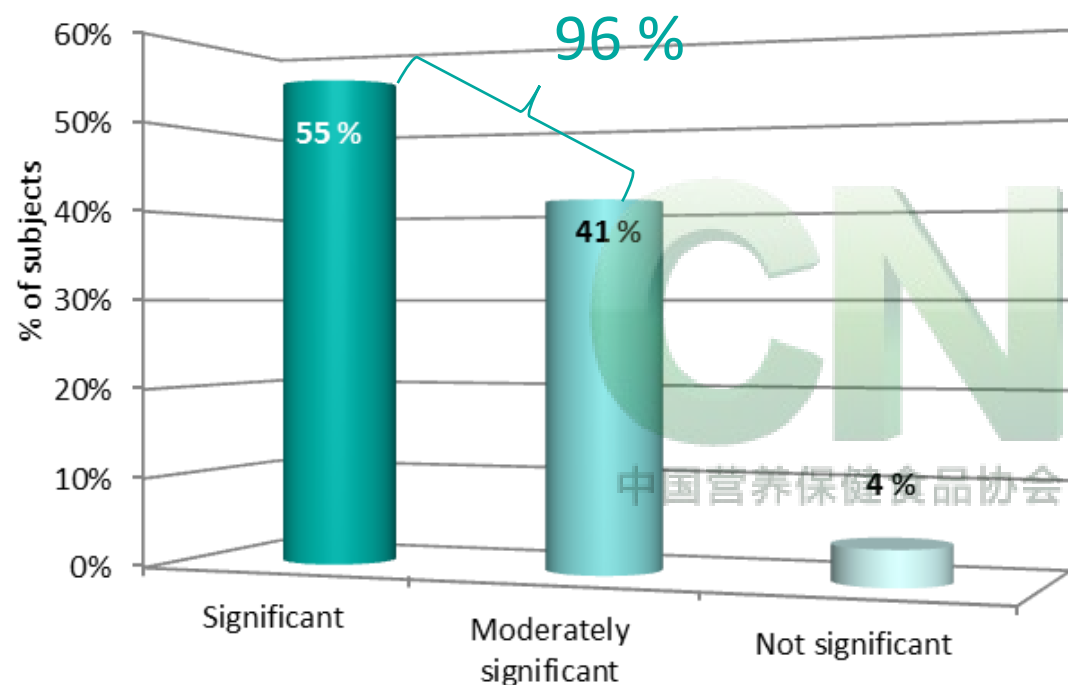
As long as *ibSium*® is taken, bowel pain is improved. When *ibSium*® is stopped (W8), pain is back and is at the same level than placebo.
只要服用益碧生®, 肠道疼痛症状获得改善。停用益碧生®后(第8周后), 肠道疼痛症状恢复, 疼痛水平与安慰剂组相同。

ibSium® improves significantly bowel pain and discomfort versus placebo during the second month of consumption
服用到第二个月时, 益碧生®较对照组相比能显著改善肠道疼痛和不适

ibSium® Consumer study: 96% approved 宜碧生® 消费者研究: 96% 认可度



- › 1161 volunteers with intestinal discomfort : abdominal discomfort, bloating...
1161 名肠胃不适的志愿者: 肠道疼痛、腹胀...
- › Consuming *ibSium*® recommended by their physicians 医生推荐他们服用宜碧生®
- › Multiple choice questionnaires administrated face to face by the physicians 与医生面对面进行多选问卷



96 % reported significant improvement of gut comfort with *ibSium*®
96 % 报告服用益碧生® 后肠道舒适度显著改善

77 % experienced *ibSium*® effects within the first 15 days of consumption
77 % 在服用15天内感受到益碧生®的效果

They considered they tolerated *ibSium*® very well.
他们认为自己对益碧生®耐受良好。



Innovative
natural solution
for vaginal health
女性私密健康
创新天然解决方案

Vaginal infections: a widespread issue

阴道感染：一个普遍的问题

Vaginal Infections
阴道感染

Bacterial vaginosis
细菌性阴道炎

- 16% women affected at least once
- 16%的女性至少感染一次

**Gardnerella Vaginalis*
阴道加德纳菌

Fungal Vaginitis
真菌性阴道炎

- 75%¹ of women affected at least once
75%的女性至少感染一次
- 40 to 50%² of women have a second episode
40至50%的女性有二次感染
- 4 to 8%² suffer from recurrent infections (> 4/year)
4%-8%的女性受反复性念珠菌感染困扰 (>4/年)

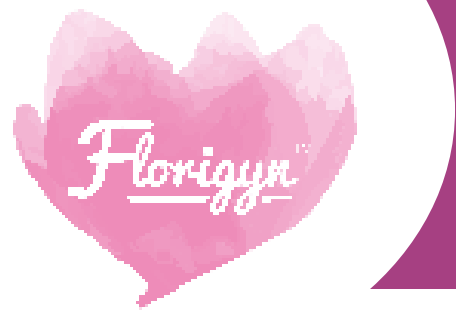
**Candida Albicans*
白色念珠菌

134 million women affected by RVVC* worldwide
全球有1.34亿女性受反复性念珠菌感染

¹ 2015 Sexually transmitted disease treatment guidelines, Centers for Disease Control and Prevention (CDC)

² Global prevalence of recurrent and chronic vulvovaginal candidiasis, Sobel

* Recurrent Vulvo Vaginal Candidiasis



Florigyn™ Biotic

乐斯福女性私密健康益生菌

Your natural ally

DESCRIPTION 描述

Patented and proprietary strain *Saccharomyces cerevisiae*
CNCM I-3856 专利酿酒酵母菌株 CNCM I-3856

PUBLICATIONS 发表文献

3 preclinical studies 3项临床前试验

- Antifungal activity vs *Candida albicans* in vivo ¹
对白色念珠菌的抗真菌性
- Antibacterial effect vs *Gardnerella vaginalis* in vivo ²
对中国对阴道加德纳菌的抗细菌作用
- Modulation of vaginal inflammation induced by *C. albicans* ³
调理改善由白色念珠菌引起的阴道炎

1 clinical study 1项临床试验

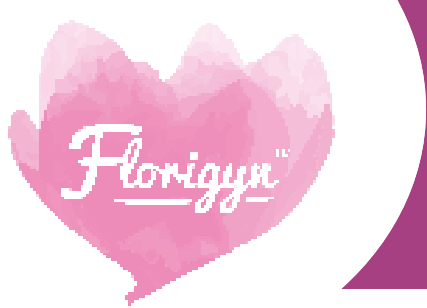
- Control of *C. albicans* proliferation and prevention of recurrence ⁴
抑制白色念珠菌，防止其复发

¹ Pericolini et al., Virulence 2016

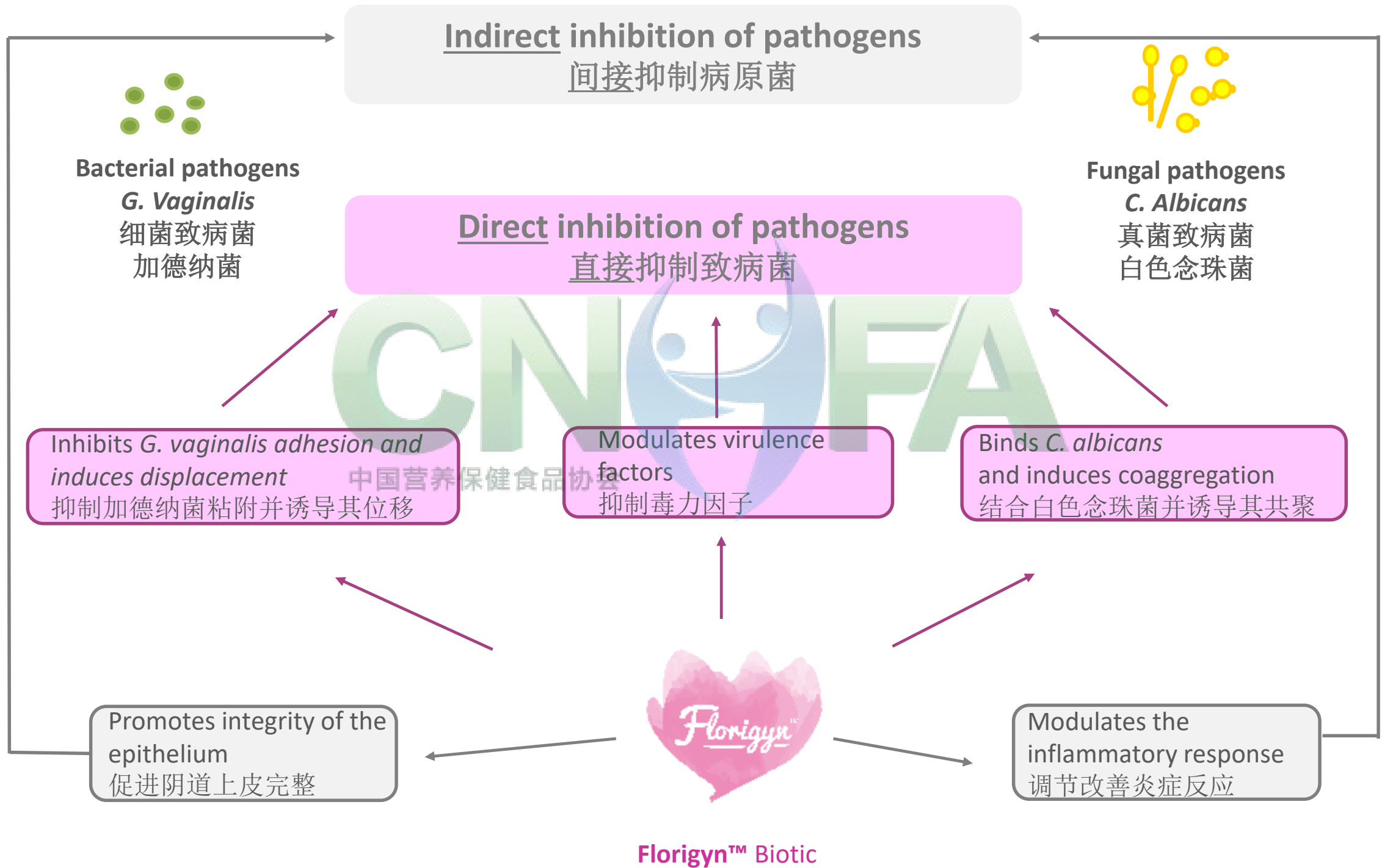
² Sabbatini et al., *accepted for publication* Virulence 2018

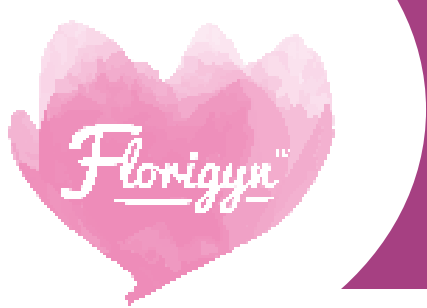
³ Gabrielli et al., Beneficial microbes 2018

⁴ Cayzeele-Decherf et al., Medical Journal of Obstetrics and Gynecology 2017



Mechanism of action 作用机理



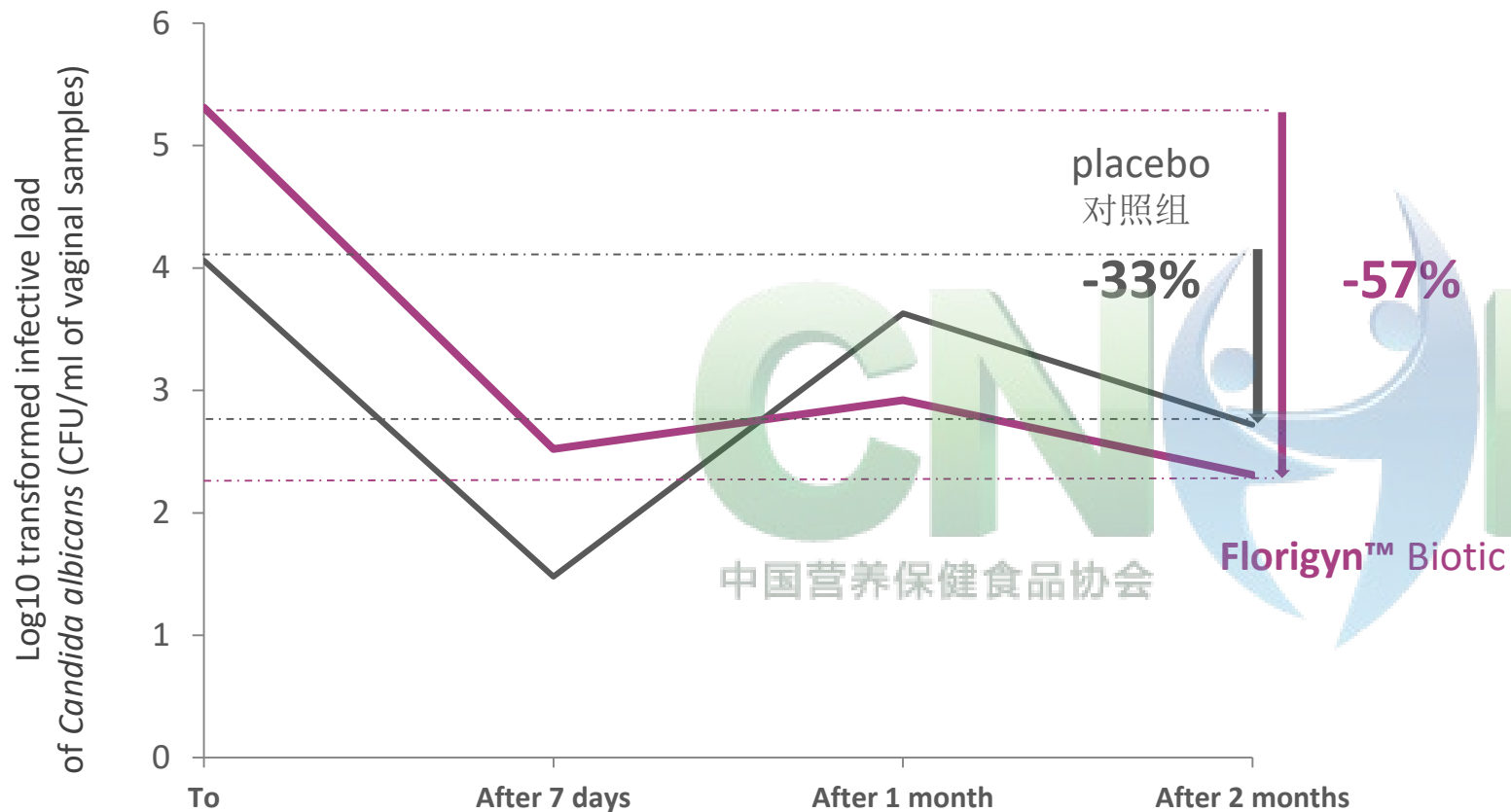


Clinical efficacy of Florigyn™ Biotic

Florigyn™ Biotic 临床功效

Vaginal infective load of *Candida albicans*

白色念珠菌阴道定殖感染



Florigyn™ *Biotic* allows to control the overgrowth of *C.albicans*, thus decreasing the risk of recurrence.

Florigyn™ *Biotic* 可以抑制白色念珠菌过度生长，降低复发风险

Change in *Candida* vaginal loads from T0 were compared using paired *t* test: $p < 0,01$ in the verum group only. Changes in the placebo group were not significant.
从T0开始对照试验观察白色念珠菌阴道定殖的变化： $p < 0.01$ 仅在产品组。安慰剂组的变化并不显著

Florigyn™ Biotic decreases vaginal load of *Candida albicans* thorough the study and by 57% after two months
摄入Florigyn™ Biotic两月后，降低57%白色念珠菌的阴道定殖

When to use Florigyn™ Biotic?

何时使用Florigyn™ Biotic



Preventive supplementation 预防性补充剂

For situations such as: 适用于以下情况

- Antibiotics treatment 抗生素治疗
- Contraceptive treatment 避孕治疗
- Stress, fatigue 高, 疲劳

Adjuvant therapy 辅助治疗

- Acute episode of vaginal infection in combination with conventional treatment 与常规治疗相结合针对阴道急性感染

Conclusion 总结

Yeast probiotics are innovative, safe and effective solutions:

酵母益生菌是创新，安全和有效的解决方案：

中国营养保健食品协会

- For the management of abdominal pain and bloating,
改善腹部疼痛和腹胀
- For the prevention and management of vaginal infections.
预防和调理阴道感染

ibSium®



THANK YOU

谢谢

REINVENT
中国营养保健食品协会
HUMAN CARE EVERYDAY

with  **LHC**
LESAFFRE HUMAN CARE

20

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 Lesaffre Human Care

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