

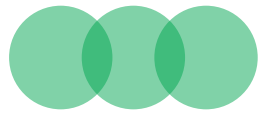
Feiolix<sup>®</sup>

NEW ZEALAND



# A New Natural Solution for Boosting GLP-1

Scientific Results (Preview)



# GLP-1

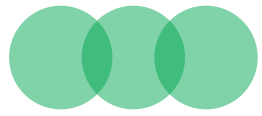
## *Gaining Loads of P*opularity

**50% of American adults are interested in GLP-1 agonist drugs**

**41% of Americans are obese.  
11.5% are diabetic**

**96 mil. American adults qualify for weight loss prescriptions**





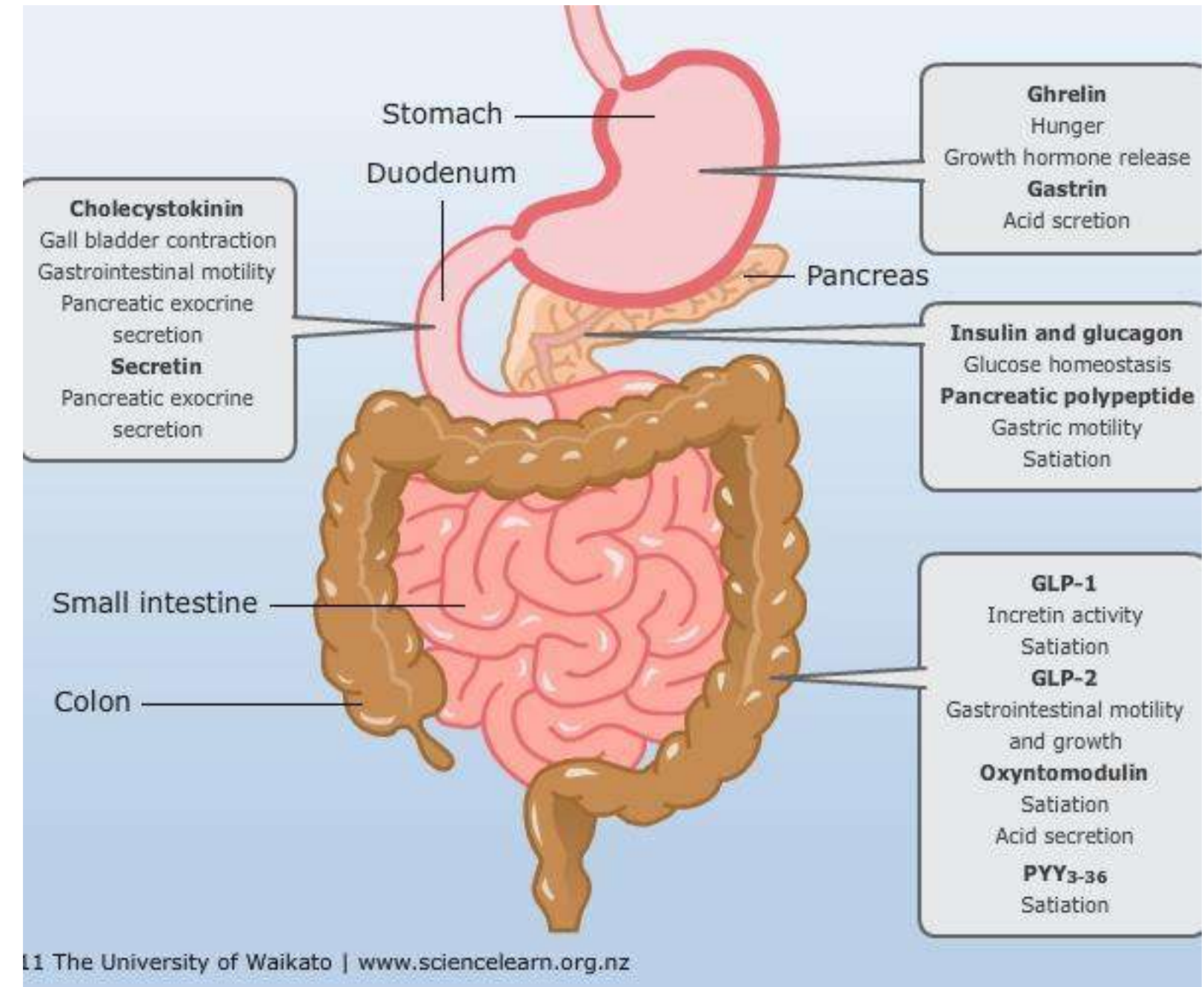
# Metabolism and Weight Regulation

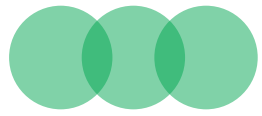
## What happens when we eat food?

Gut+ Pancreas + Stomach release peptide hormones

- Ghrelin
- Gastrin
- Secretin
- CCK
- Peptide PYY
- GLP-1

**INCRETINS**  
(Ingestion+Secretion)





# What is GLP-1?

## Glucagon-Like Peptide-1

GLP-1 is secreted when food is consumed

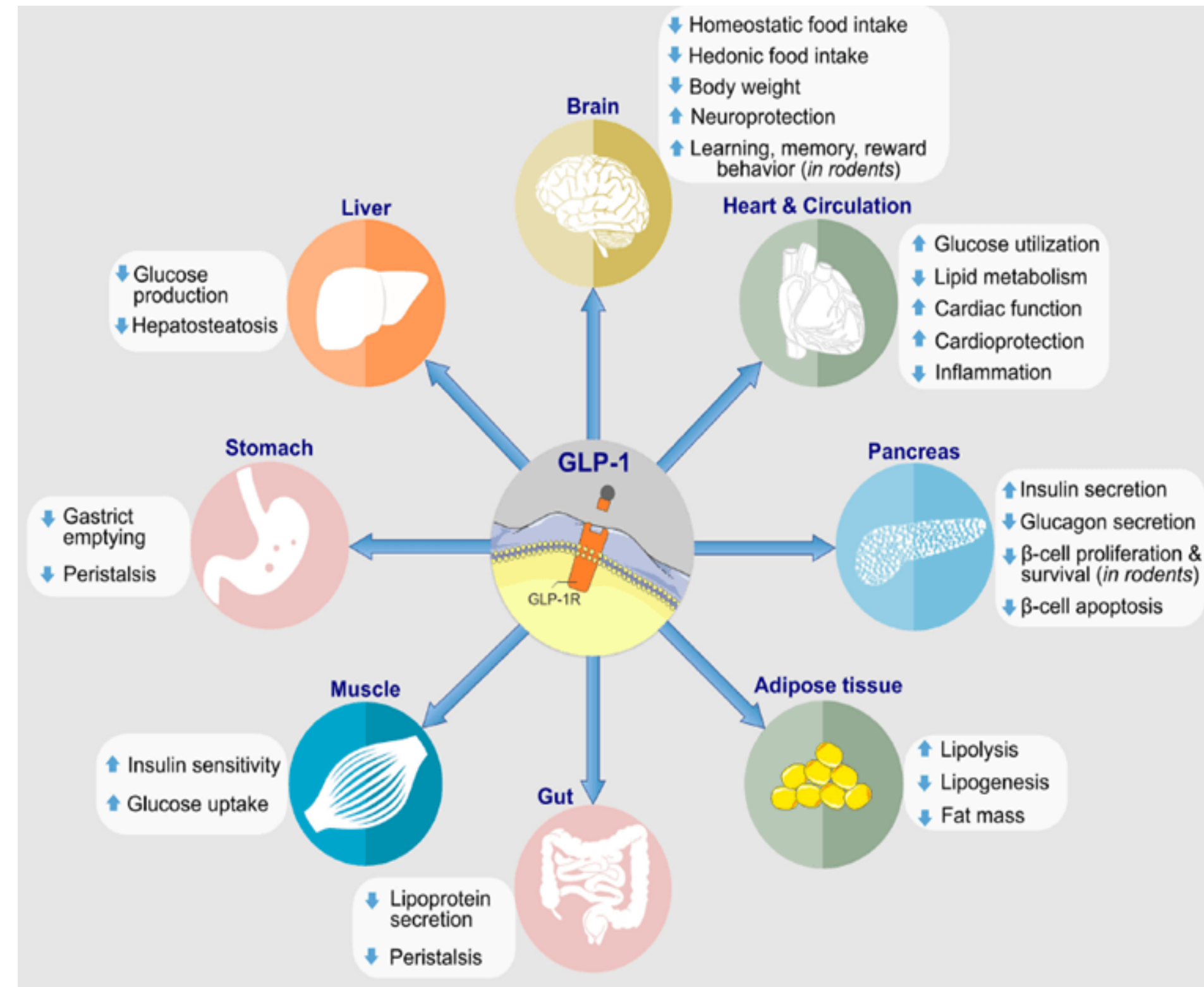
- acts on nearly every system in the body

GLP-1 influences metabolism by

- stimulating insulin secretion
- inhibiting glucagon release
- Increasing glucose uptake and utilization

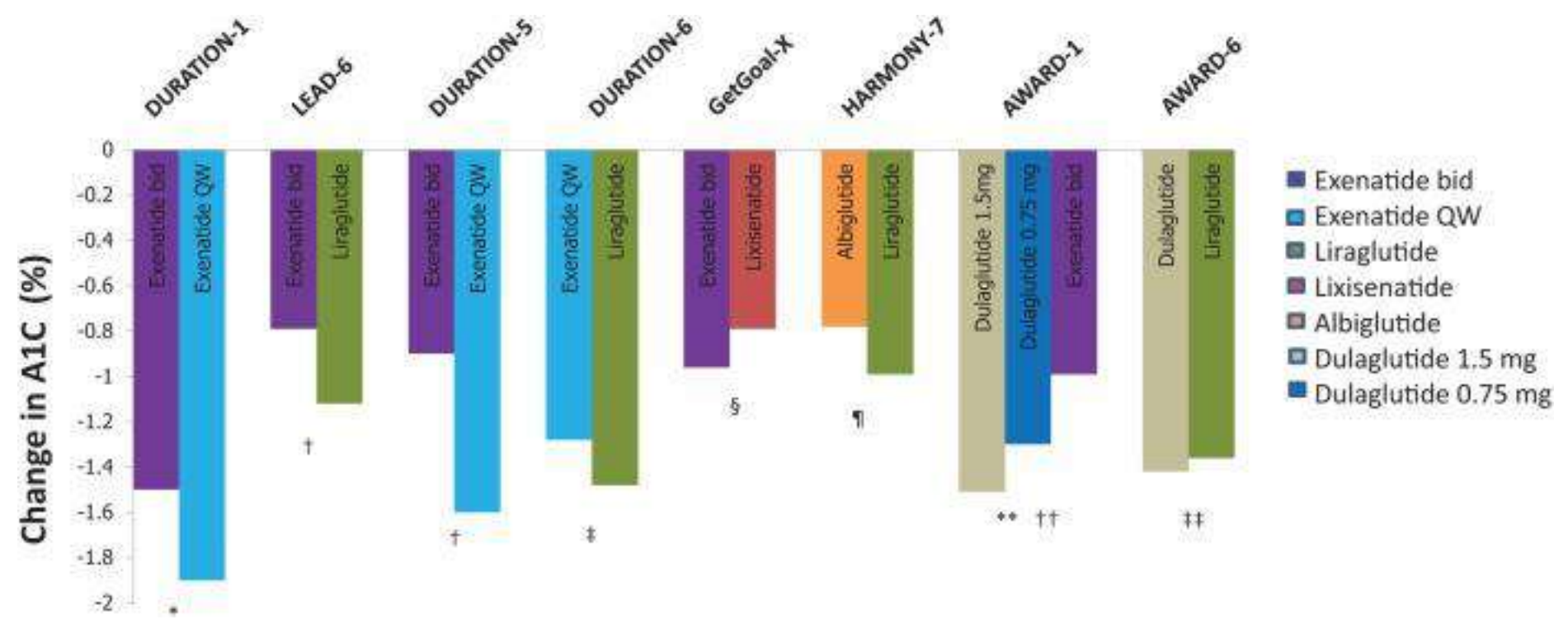
GLP-1 reduces appetite by

- inhibiting gastric emptying
- acting on the hypothalamus which regulates appetite in the central nervous system

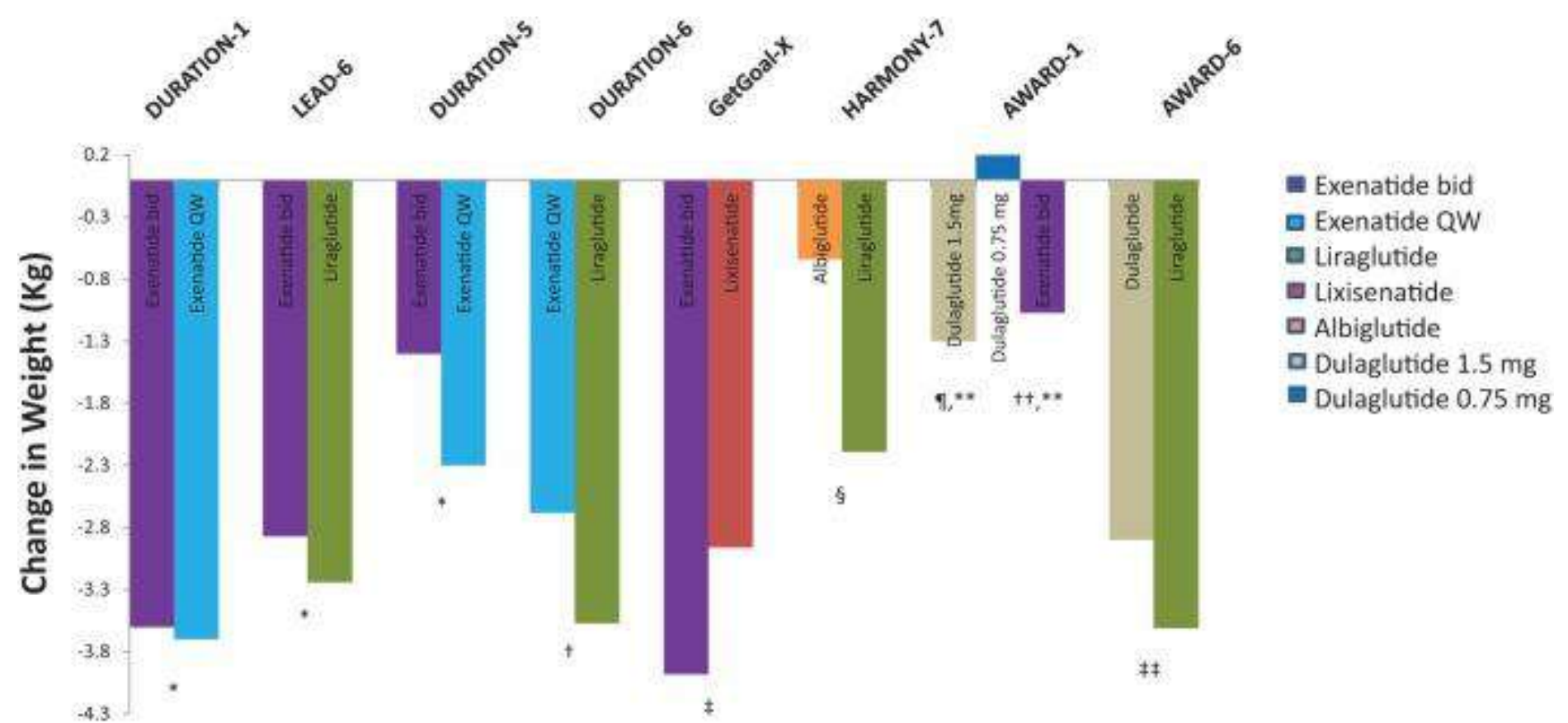




# GLP-1 Agonist Human Clinical Research Meta-Analysis



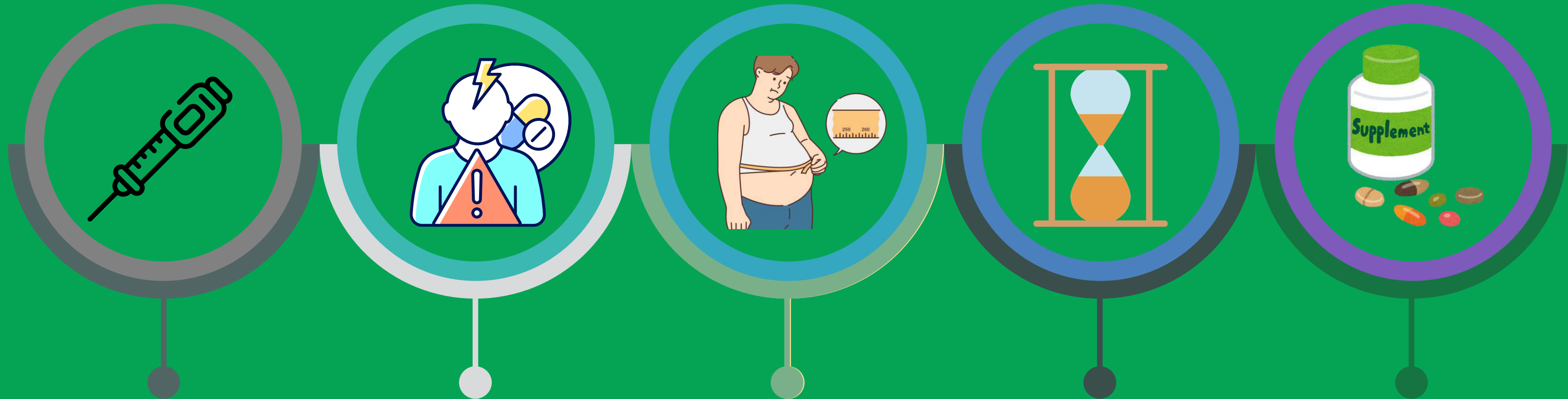
- 8 studies, R, OL, AC, NI
- N = 295 – 987
- Participants –diabetic with BMI>30
- 24-30 week intervention



- ### Key Takeaways
- Significant reduction in A1C
  - Significant reduction in weight

[Trujillo JM et al ;2015](#)

# Current Space for medications



**Number of FDA Approved Medication**

**Number of side effects**

**Tolerability and Weight Gain**

**Long term effects?**

**Supplements**

- 6 Medications currently approved
- Intestinal lipase inhibitor (reduces fat absorption)
- Carbonic anhydrase inhibitor (decreases appetite)
- Dopamine/norepinephrine re-uptake inhibitor (decreases appetite)
- GLP-1 agonist (decreases app, increase fullness)
- Melanocortin-4-receptor agonist (decreases app)

- Nausea: 20-44%
- Vomiting: 9-13%
- Diarrhea: 8-17%
- Constipation: 6-9%

In a 2022 study, participants after 1 year, regained **66%** of the weight they had lost.

In another study, after losing 15% of their weight, participants regained **11%**. Increased app, decreased fullness attributed to gain

Currently unknown and un-tested

12 Supplements with papers supporting their efficacy

Amylase inhibitors, anti-inflammatory



Fei*lix*<sup>®</sup>

**Anti-  
Inflammatory  
Polyphenols**

**Blood  
Glucose  
Lowering  
Abscisic  
Acid**

**Satiating  
Dietary  
Fibre**





# What are the main active compounds in Feijoa Fruit?

- Polyphenols → Anti-inflammatory properties (stimulate GLP-1)
- Xyloglucans → Increases satiety & prebiotic effect (stimulate GLP-1)
- Abscisic Acid → GLP-1 Secretion from pancreas and small intestine





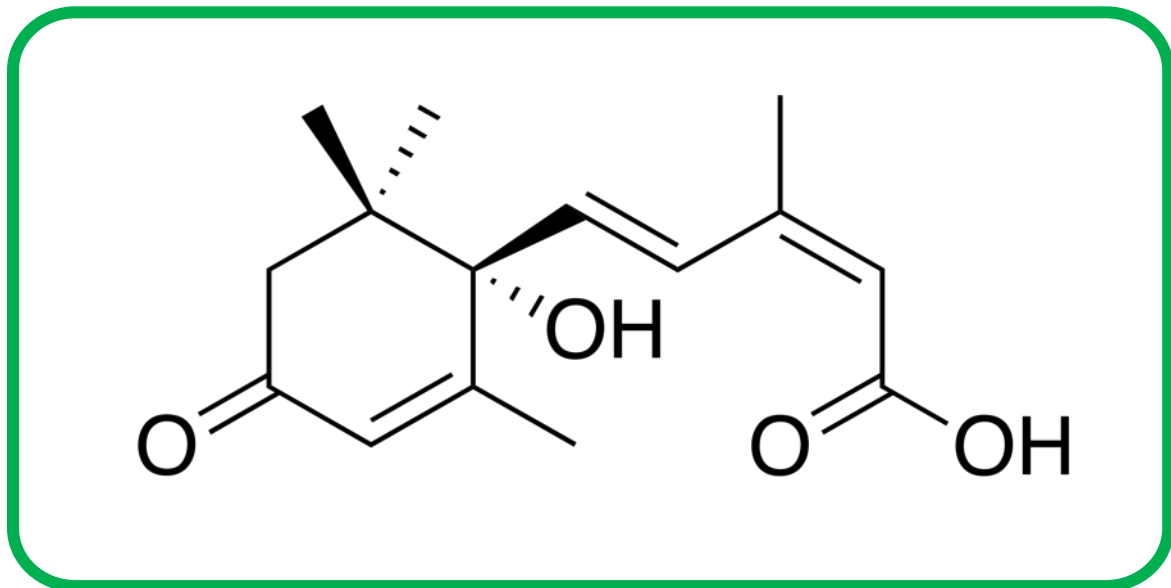
# Abscisic acid

Universal signalling hormone

*In plants:* separation of fruit from stem

*In humans:* co-secreted at low levels with insulin from pancreas

Feijoas contain HIGHEST recorded concentration



Food product	ABA (mg/kg)
NZ Feijoas	4.29
Avocados	2.0
Fig	0.72
Bilberry	0.4
Apricot	0.32
Apple	0.30
Tomato	0.20



# Abscisic acid

Binds to ABA receptor (LANCL2) in humans



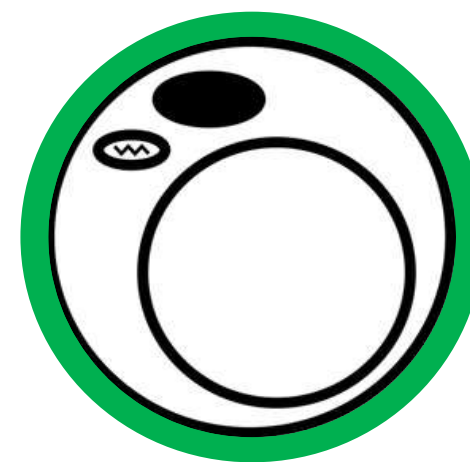
## PANCREAS

- Insulin Secretion
- GLP-1 Secretion
  - Increase satiety



## BRAIN

- Reduce inflammation
- Support thermogenesis
- Increase satiety
- Reduce neuropathic pain



## ADIPOSE CELLS

- Decrease macrophage infiltration
- Reduce inflammation
- Improve glucose tolerance



## MUSCLE CELLS

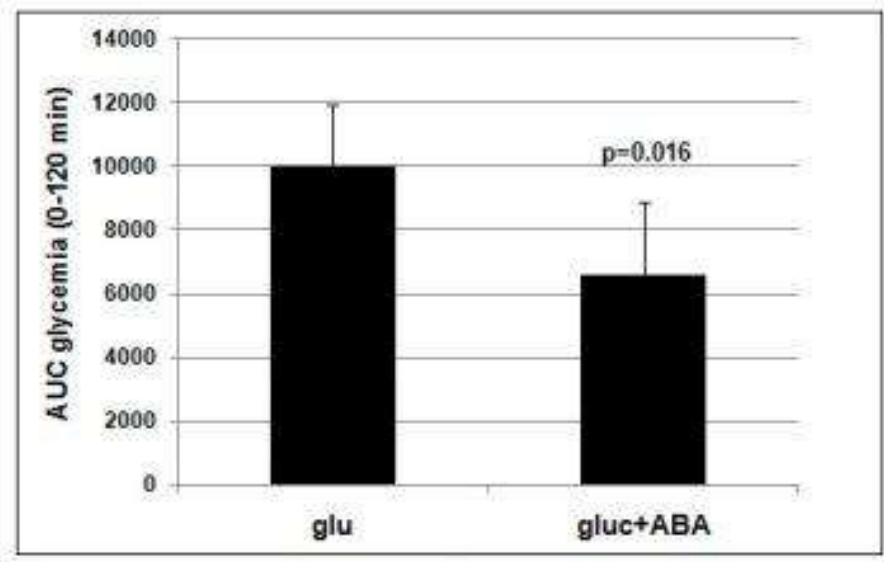
- Glucose absorption
- Glucose utilisation
- Increase thermogenesis



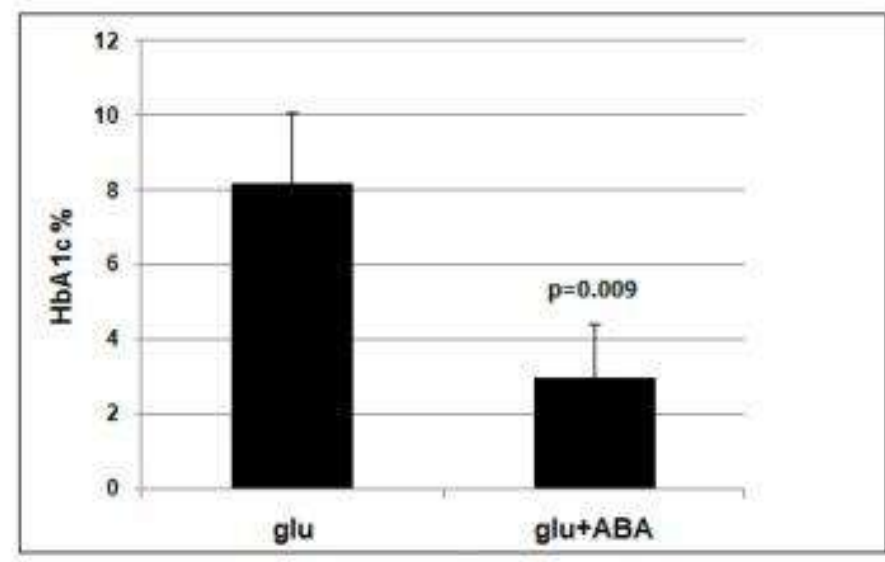


# Abscisic Acid Improves Glycemia and Lipidemia in a high glucose diet mouse study

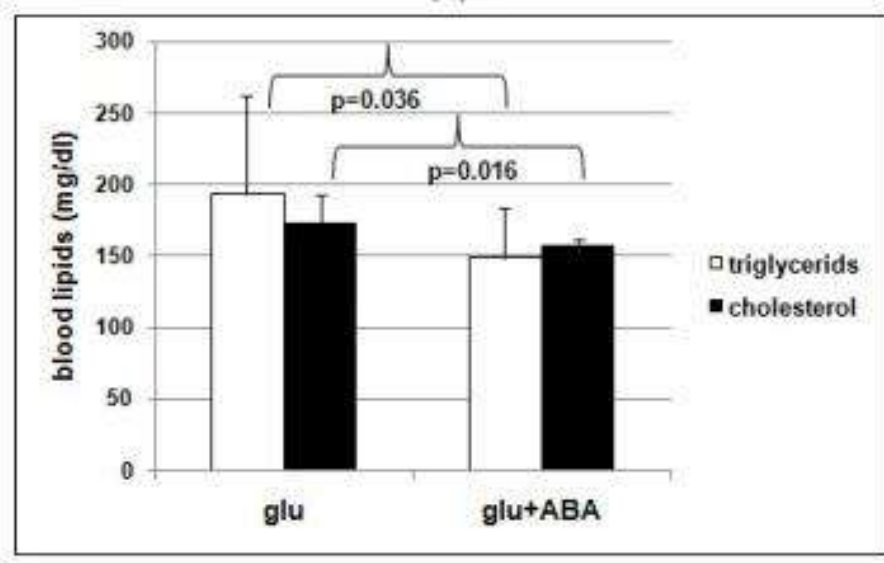
- 2 mice groups fed for 4 months a high glucose diet
- Either placebo or ABA (1 ug/kg)
- After 4 months, body weight, HbA1C, blood lipids and an OGTT was tested



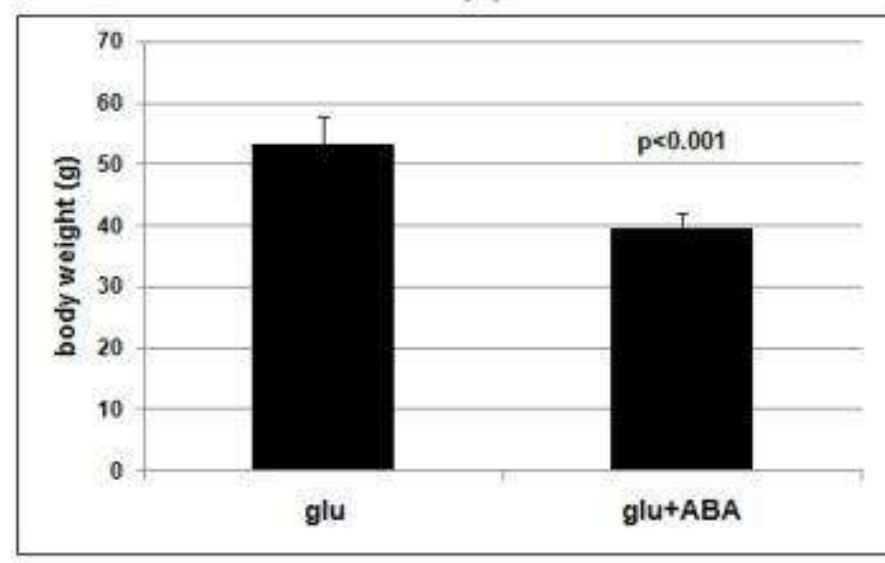
(a)



(b)



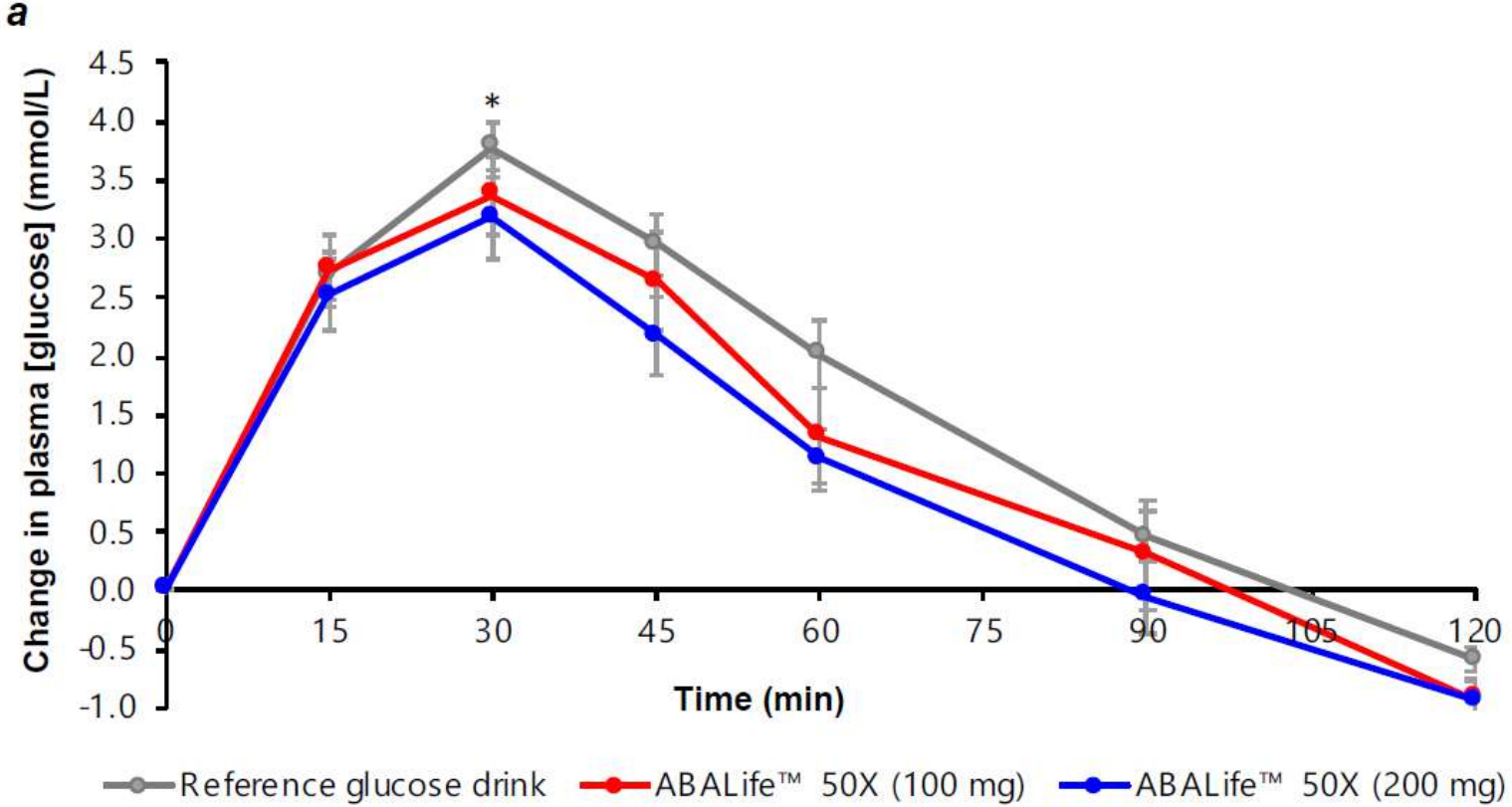
(c)



(d)

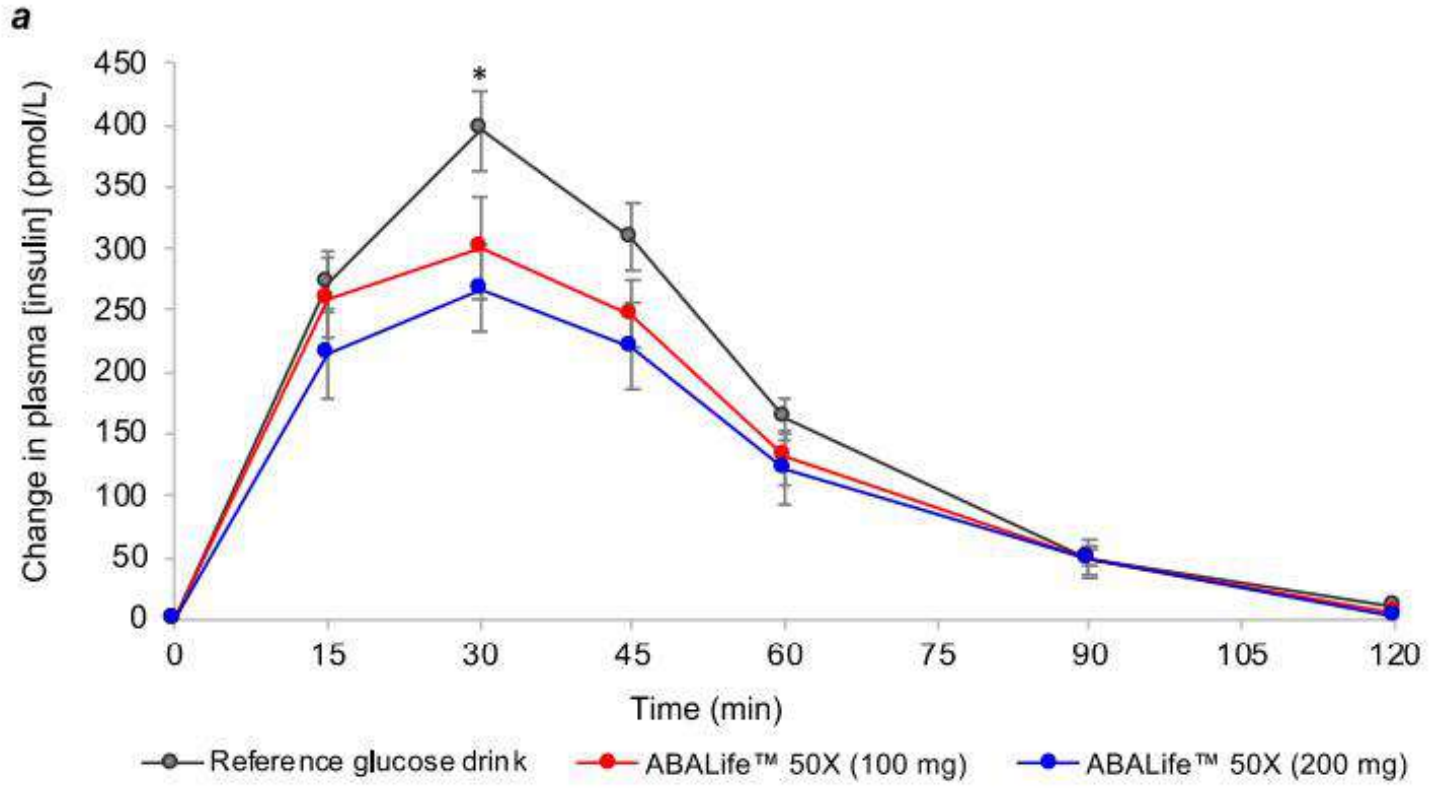


# Effect of Abscisic acid (ABA) on glycemic and insulinemic response (Acute study in fig extract)



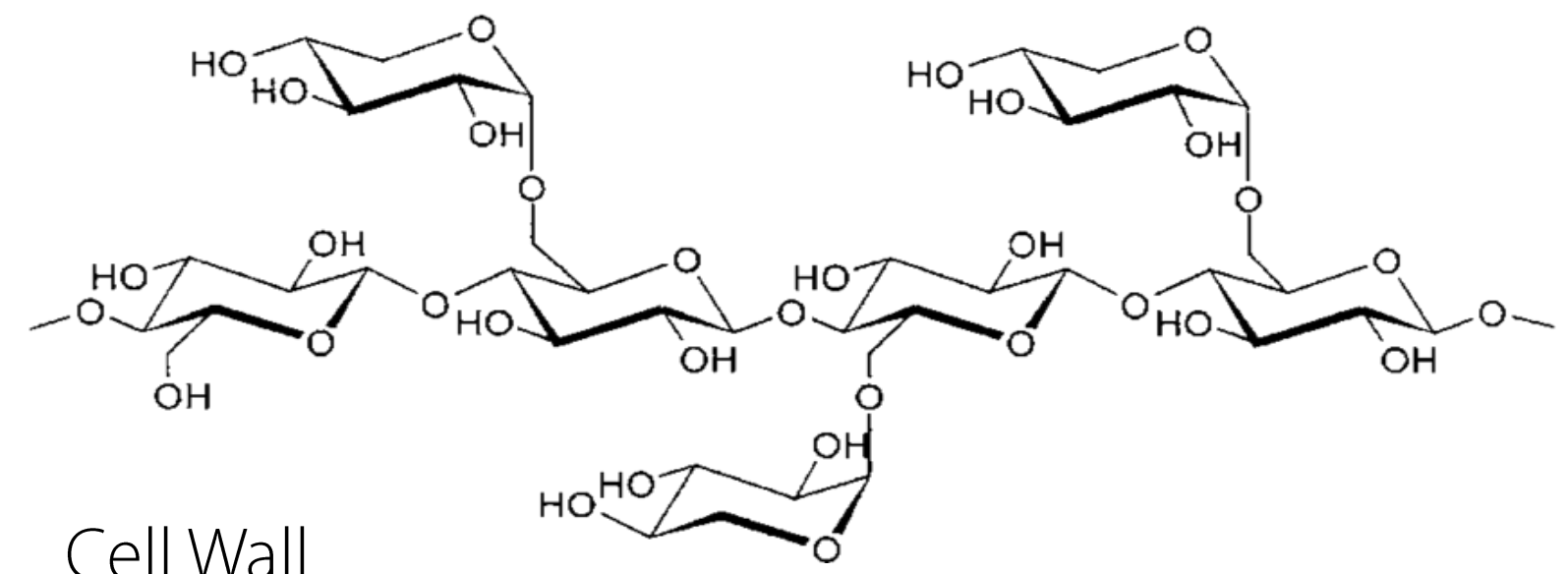
Acute study showing- glucose and insulin response during OGTT with ABA (only 42 ug)

In FERDINAND study we used Feiolix powder (1.15 g) that provides **46 ug ABA**.

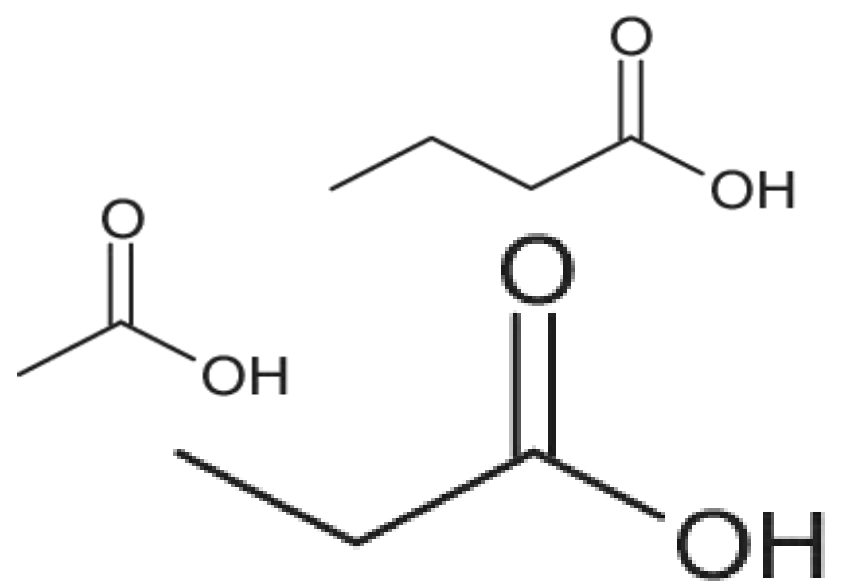




# Dietary Fibre + Prebiotics Support Incretin Release



Cell Wall  
Xyloglucans



SCFAs: **Propionate**



**GLP-1 & PYY Release**

**Decreased** gene expression for **fat synthesis**

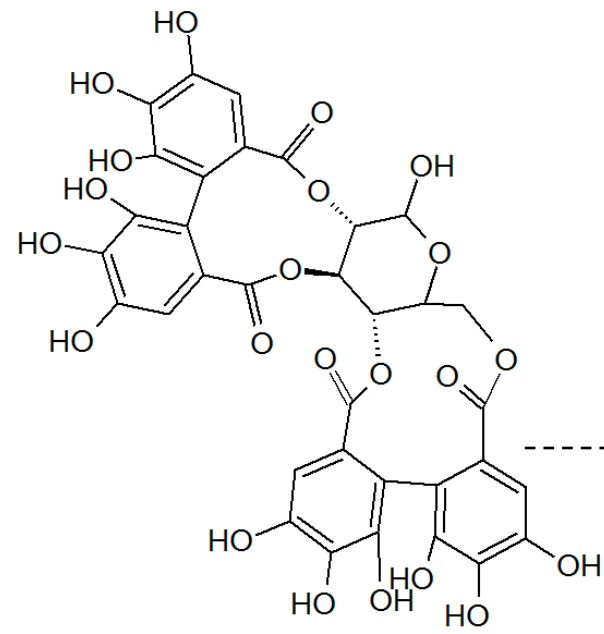


# Bioactive polyphenols

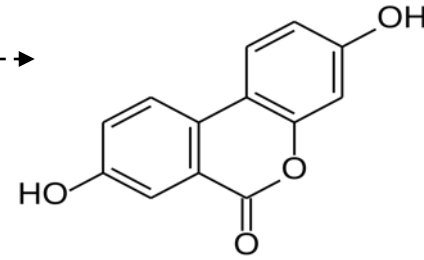
>30 mg/g dry weight

## Hydrolysable tannins (ellagitannins)

- $\alpha$  and  $\beta$ -pedunculagin
- ~60% of the total polyphenols



Microbial transformation

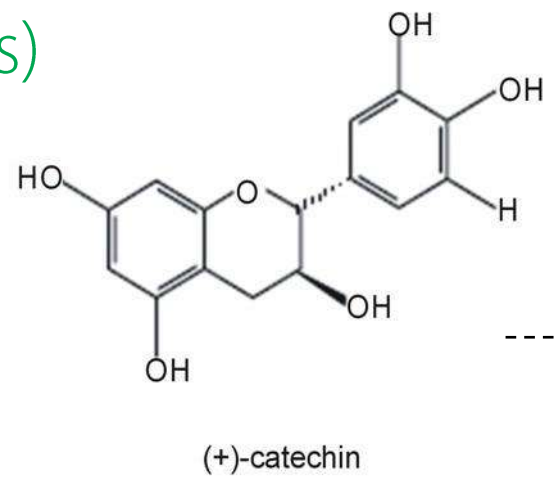


## Urolithins

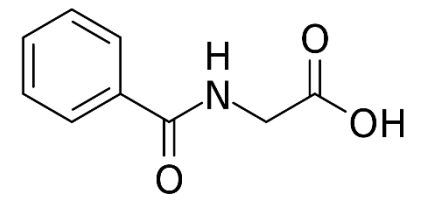
- Anti-inflammatory
- Insulin secretagogue

## Flavans

- Proanthocyanidins (condensed tannins)
- Catechin & Catechin B2
- Gallocatechin
- Epicatechin



Microbial transformation

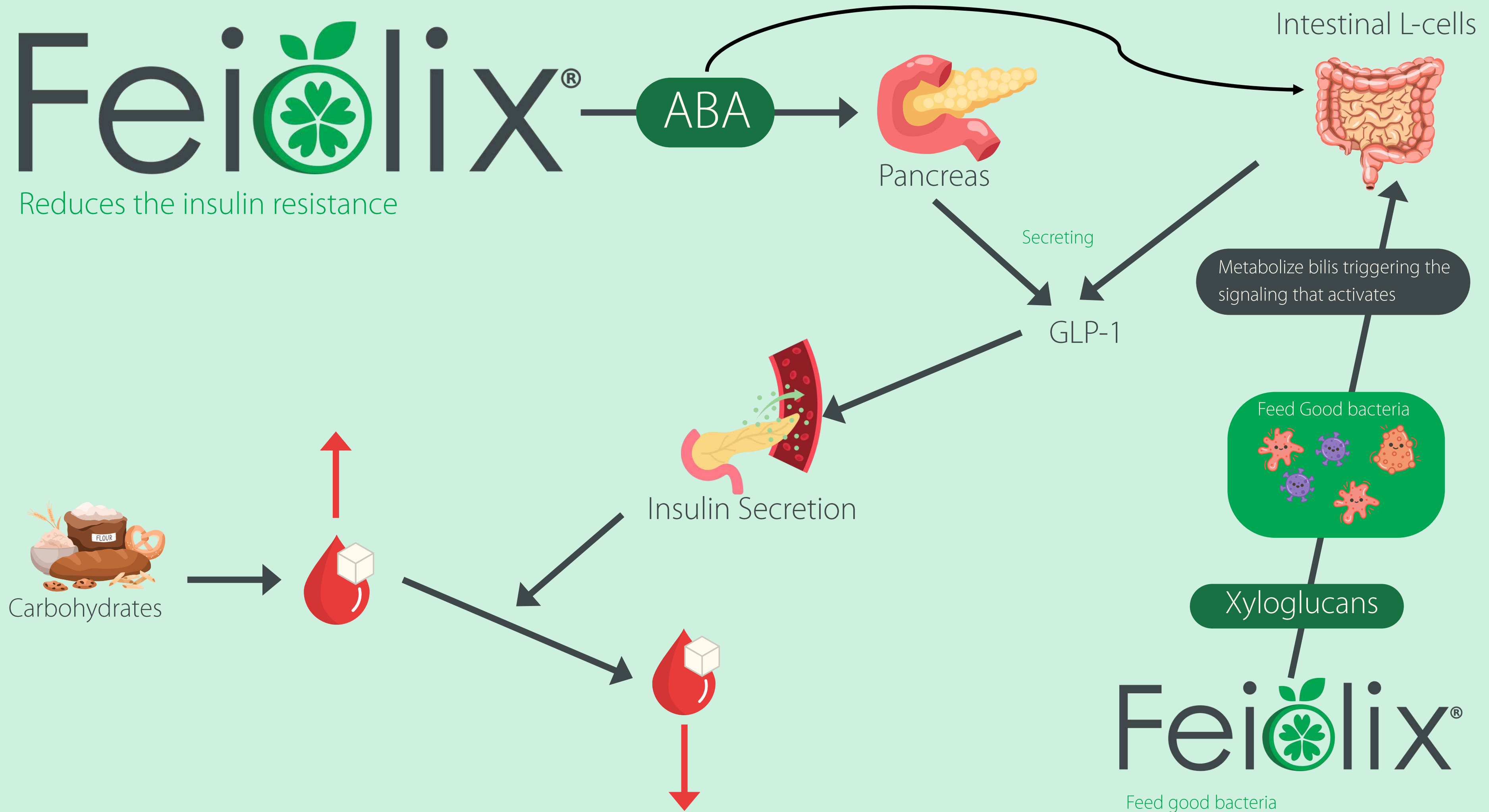


## Hippuric acid

- Anti-inflammatory

# FeioliX<sup>®</sup>

Reduces the insulin resistance

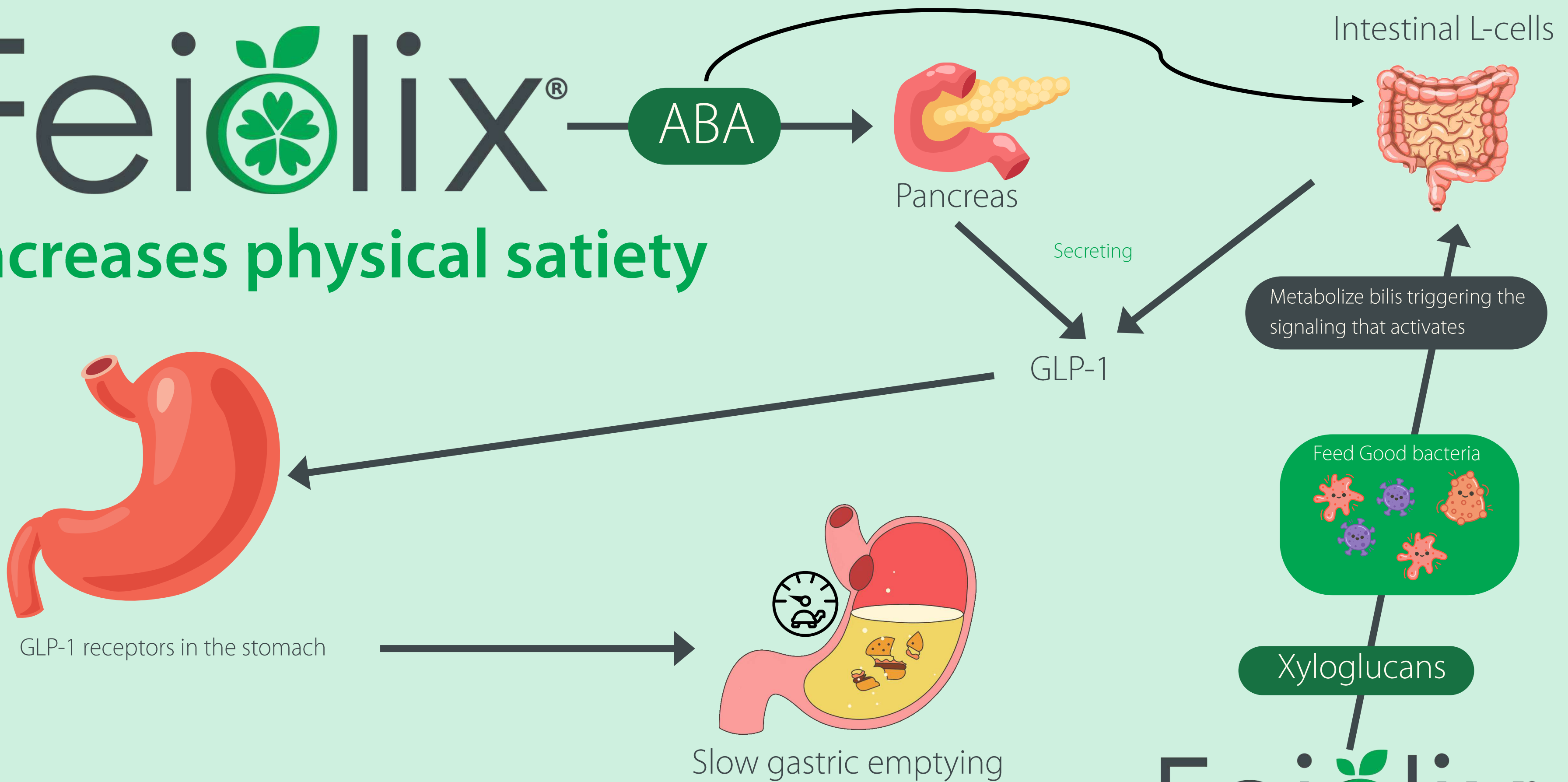


# FeioliX<sup>®</sup>

Feed good bacteria

# FeioliX<sup>®</sup>

## Increases physical satiety



# FeioliX<sup>®</sup>

Feed good bacteria

# FeioliX<sup>®</sup>

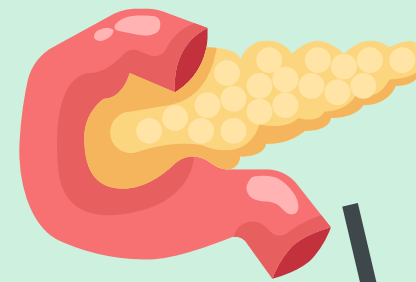
Decreases hunger



GLP-1 + PYY receptors  
in the brain

ABA

Pancreas



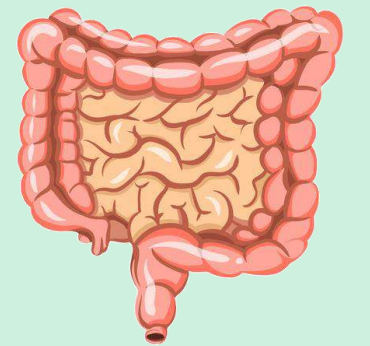
Releasing

GLP-1

+

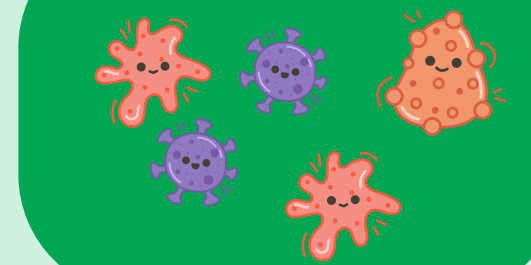
PYY

Intestinal L-cells



Metabolize bilis triggering the  
signaling that activates

Feed Good bacteria

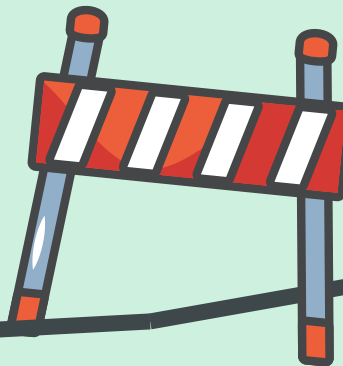


Xyloglucans

# FeioliX<sup>®</sup>

Feed good bacteria

Hematoencefalic Barrier

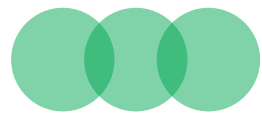


Induce a satiating effect

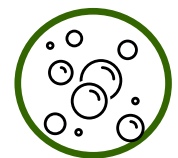




# Scientifically Supported & Patented



Reduce Blood Glucose



Reduce Cholesterol & Triglycerides



Prevent Weight Gain



Reduce Joint Pain





# A decade in the making

**Feijoa extract vs obesity using obese mice**  
(Lee (2010) unpublished, Kyung Hee University)



**Feijoa extract vs joint inflammation in arthritic mice**  
(Lee (2010) unpublished, Kyung Hee University)

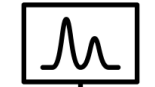


**Feijoa extract vs inflammation in mice**  
(Lee (2010) unpublished, Kyung Hee University)



**Feiolix patent**  
WO2013/186680A1  
FEIJOA FRUIT EXTRACT  
in the **treatment of Type 2 Diabetes and Rheumatoid Arthritis**

**LC-MS phenolics in Feijoa extract**  
(Cooney and Trower, 2015 PFR 11057)



**Feijoa extract anti-inflammatory in vitro cell testing**  
(Hurst & Hurst, 2015 PFR 12000)



**Feijoa extract vs HFD-induced metabolic syndrome in mice**  
(Kumar (2018) Sugan Life Sciences Pvt. Ltd.)



**Feijoa extract dosage study in mice**  
(Viridis Biopharma Pvt. Ltd.)



**Feiolix. Dosage reduction pre-clinical**  
(Viridis Biopharma Pvt. Ltd.)



**Feiolix. Prediabetes safety clinical**  
(Viridis Biopharma Pvt. Ltd.)



**Feiolix. Low-dose prediabetes clinical**  
(Viridis Biopharma Pvt. Ltd.)



2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

**Feijoa extract developed** by Watson (Arizona) And Y L Foo (Callaghan Innovation, NZ) Interested in **diabetes and arthritis**

**Feijoa extract clinical study Improves hyperglycaemia in patients with T2DM**  
(Taghavi et al., 2012 *Iranian Journal of Endocrinology and Metabolism* 222-225)



**Feijoa fractions anti-inflammatory signal via TLR2 and TLR4**  
(Nasef et al., 2014, *Nutrients* (6), 5265-5279)



**Feijoa fractions inhibit JAK2 and MAPK**  
(Martin et al., 2015 *Food and Function* (6) 305-312)



**Feijoa ellagitannins inhibit JAK2**  
(Smith et al., 2015, unpublished)

**LC-MS ABA in Feijoa extract and Feiolix.**  
Cooney, 2019 PFR unpublished)



**Feiolix. comparison study: Extract vs Powder**  
(Viridis Biopharma Pvt. Ltd.)



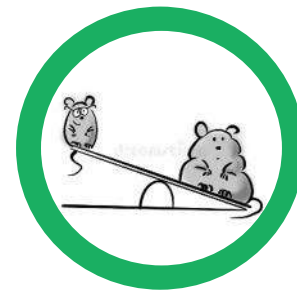
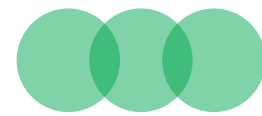
**Feiolix. FERDINAND Prediabetes study**  
(High Value Nutrition)

**Feiolix. Synergy Acute study**  
(High Value Nutrition)





# Conception



- **Obese** leptin deficient mice fed feijoa extract gained **24% less weight**



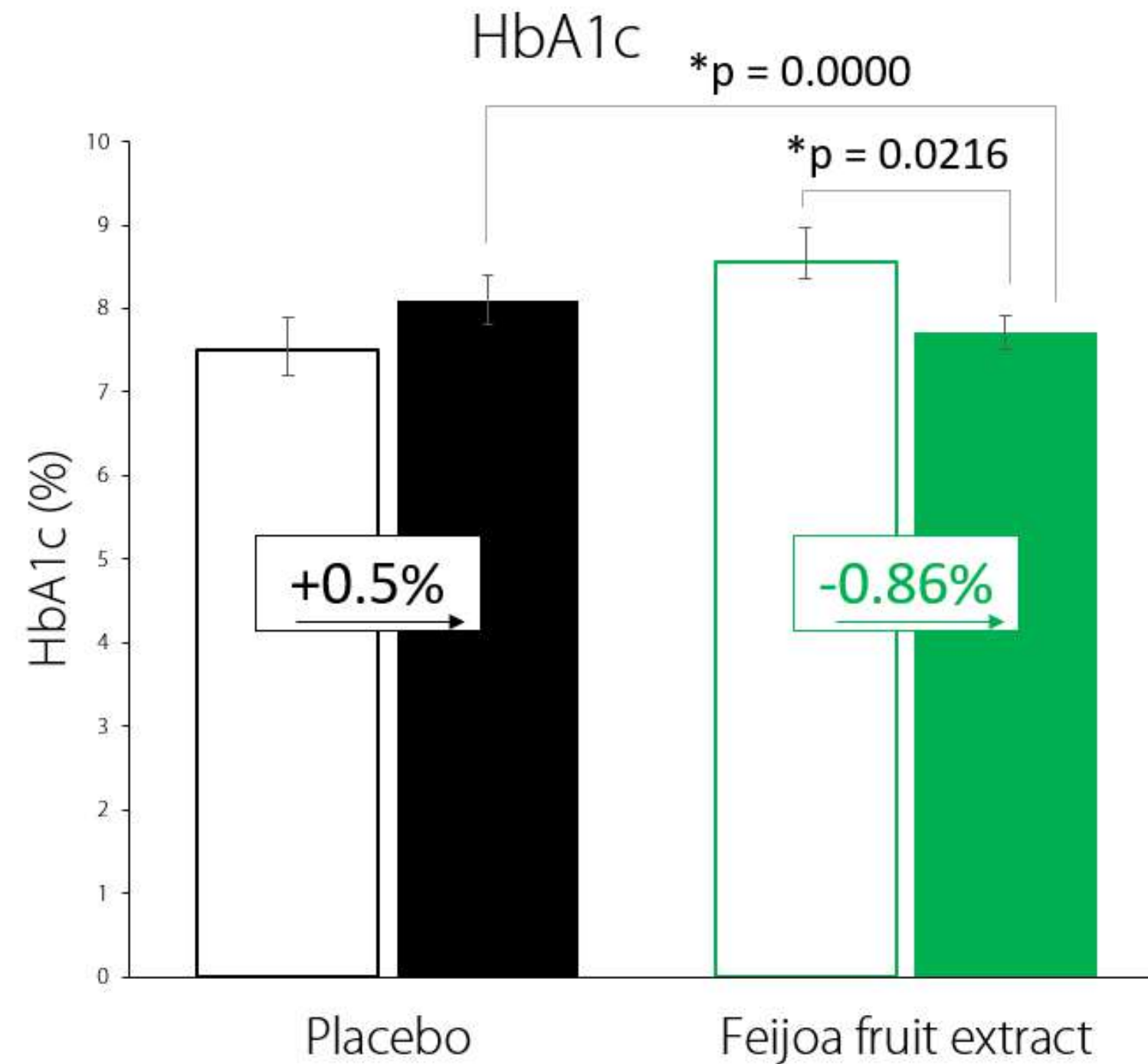
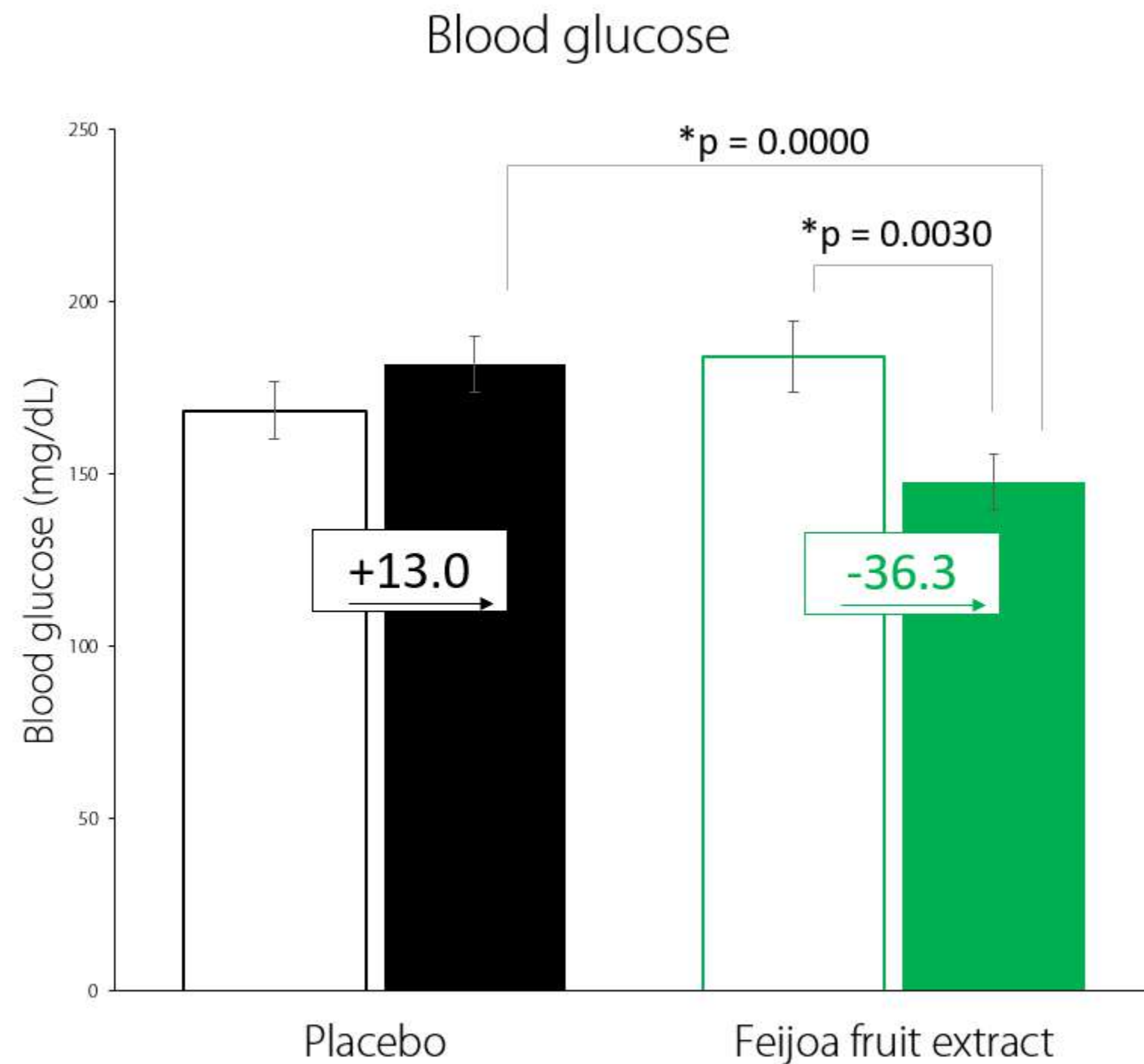
- Feijoa extract is as effective as methotrexate at
  - **Increasing running speed** and **foot pressure**
  - **Decrease in inflammatory cytokines** in arthritic Mice



- Feijoa extract reduces **age related pro-inflammatory cytokines** in elderly mice

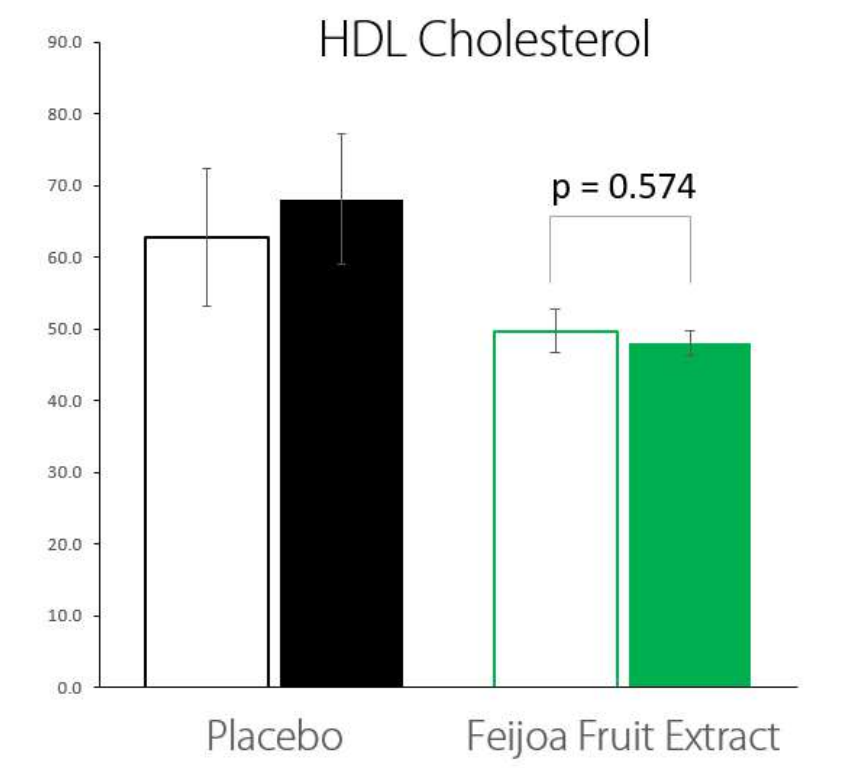
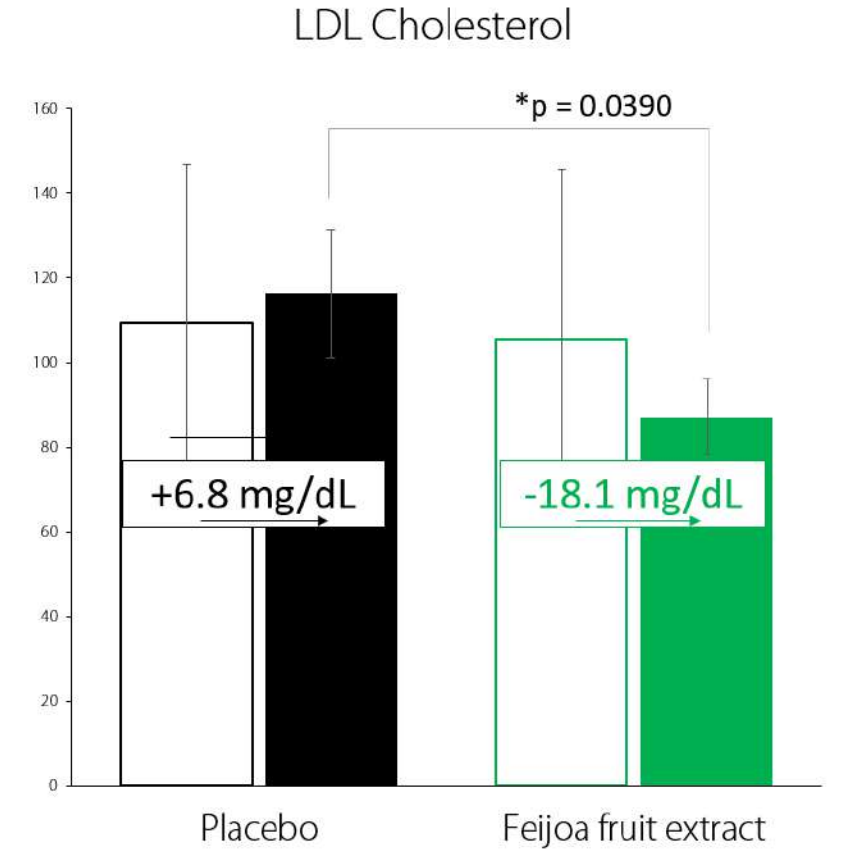
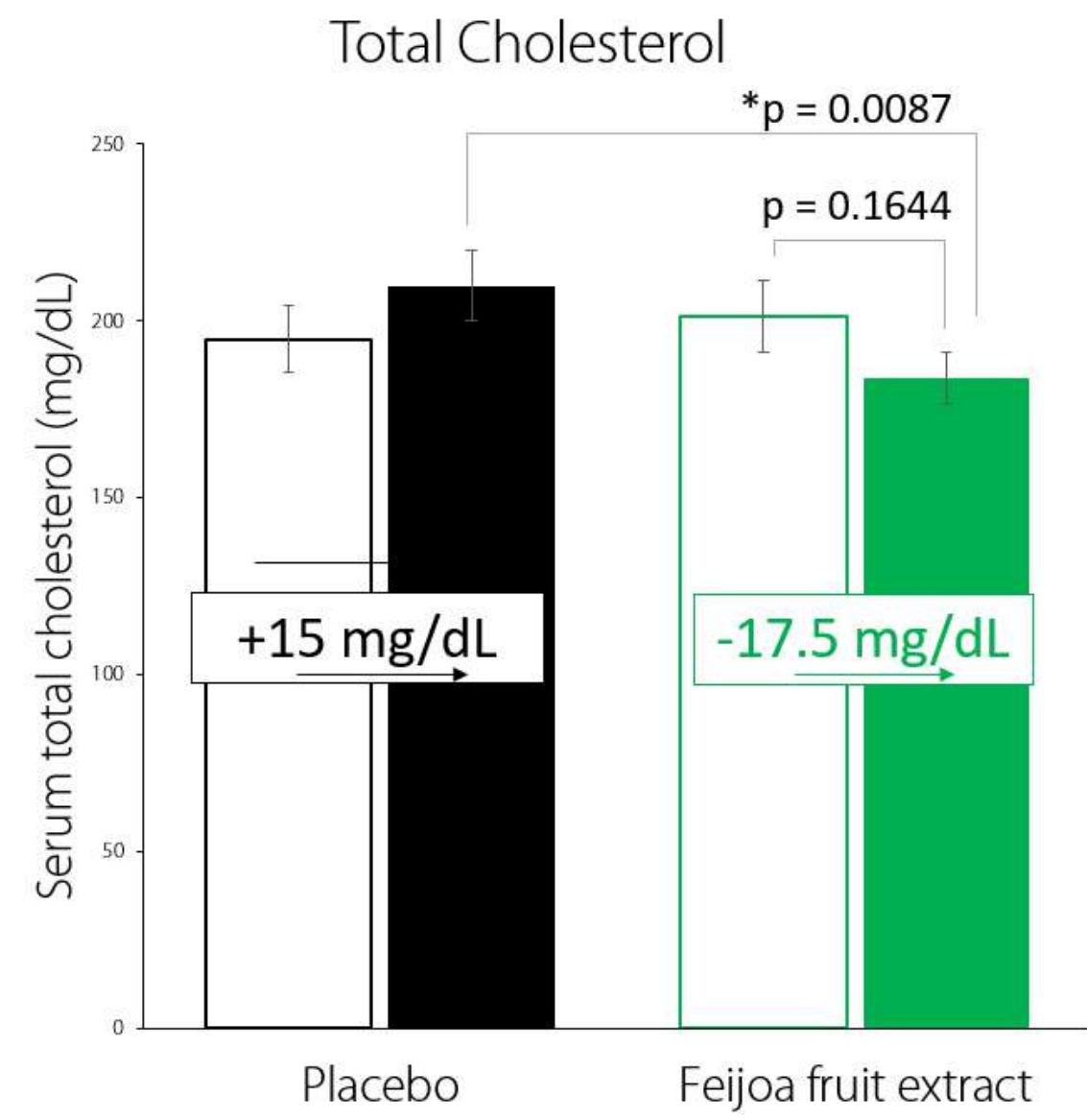
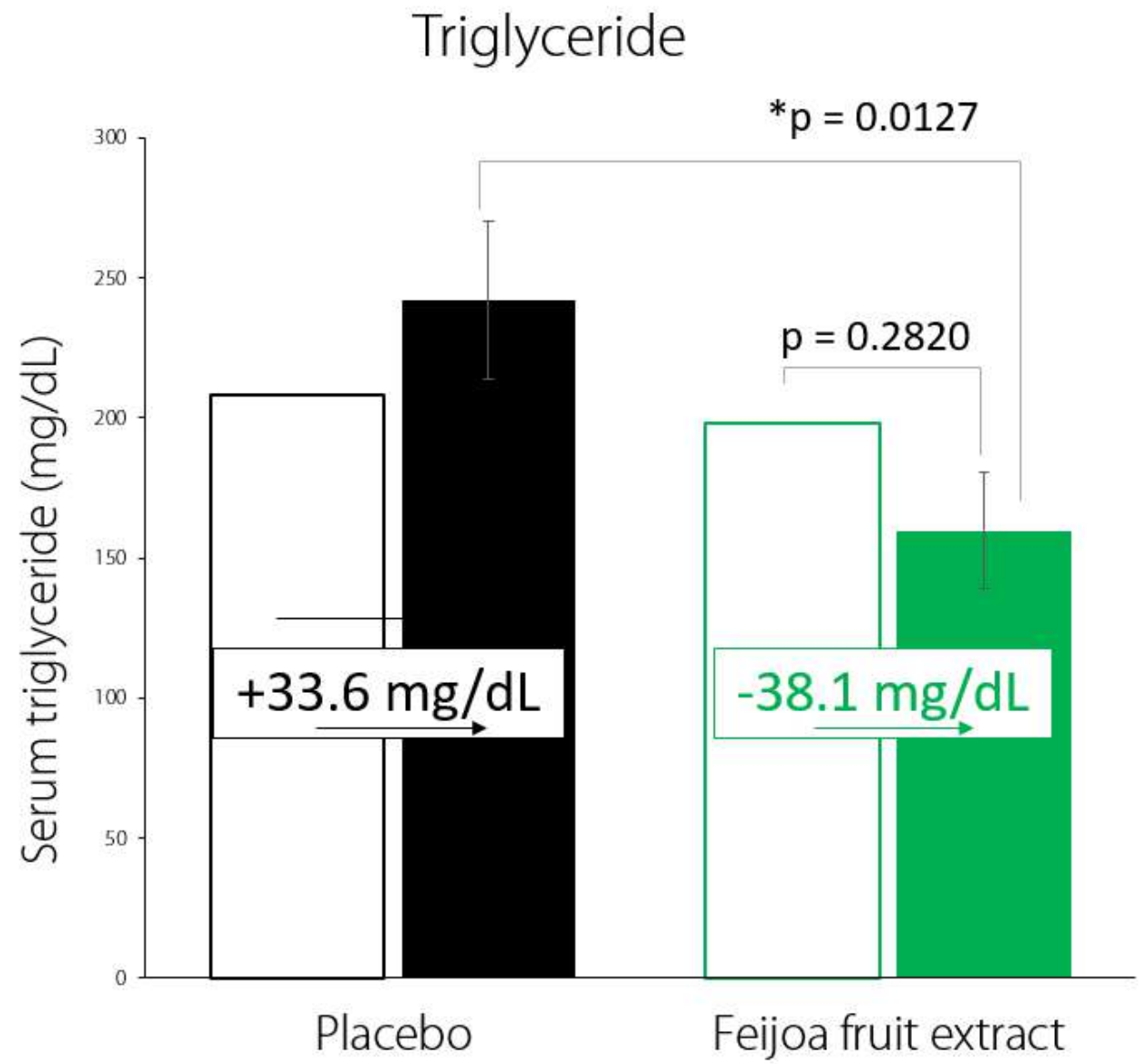


# Feijoa extract in Type II diabetic adults



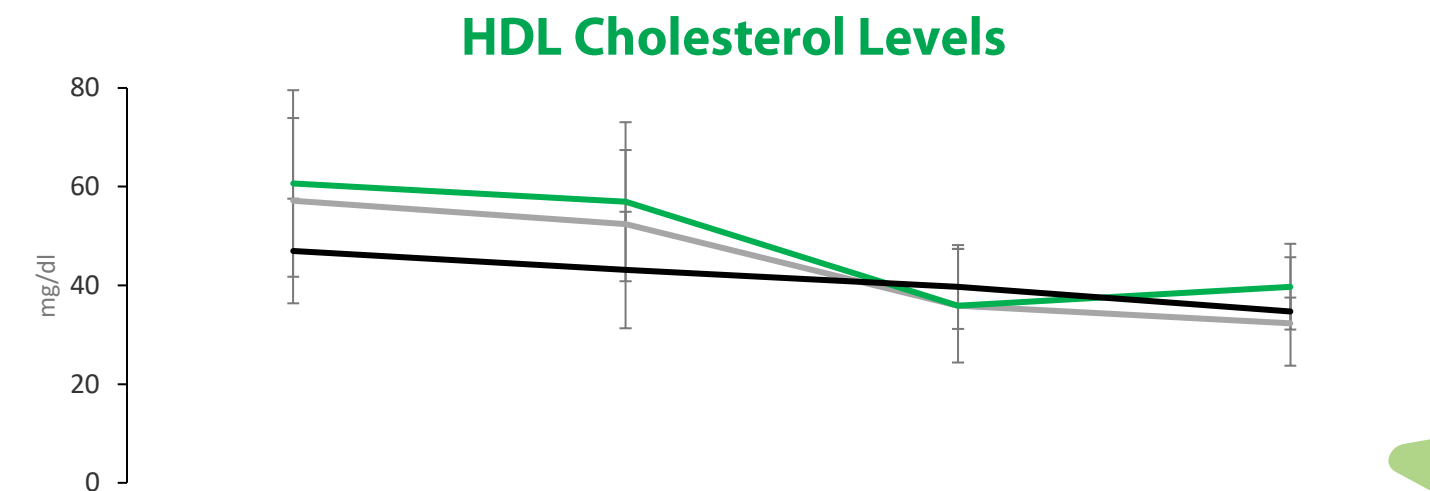
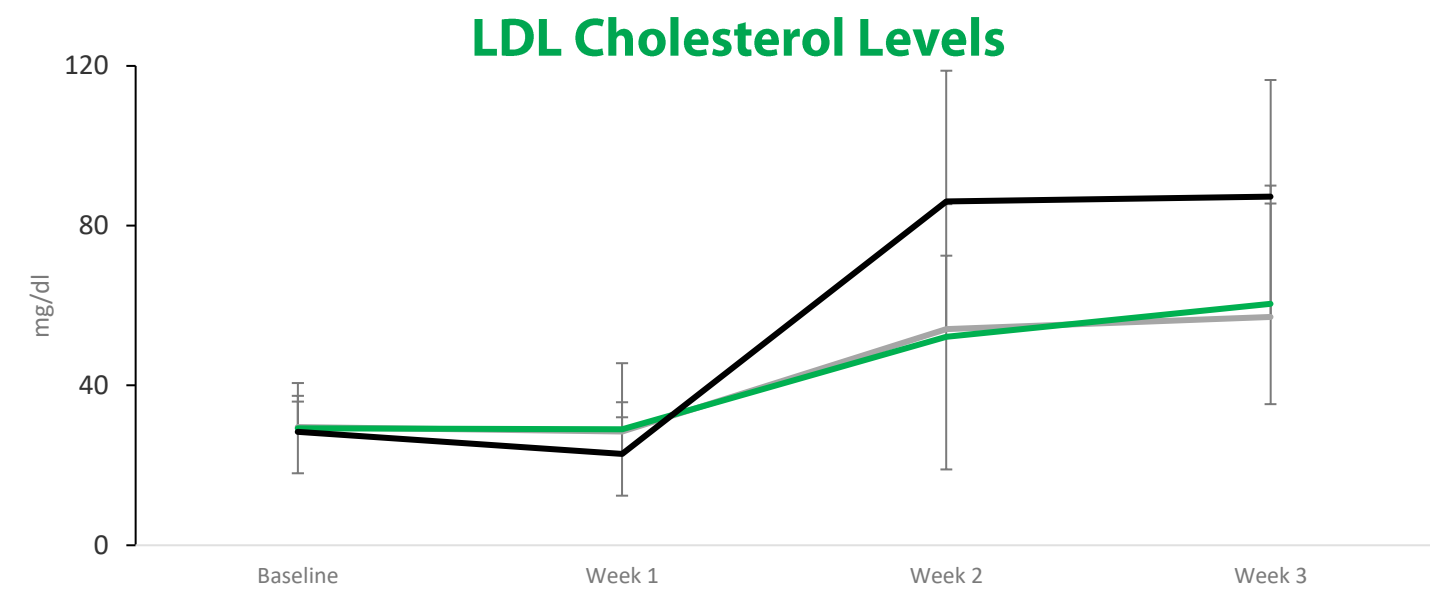
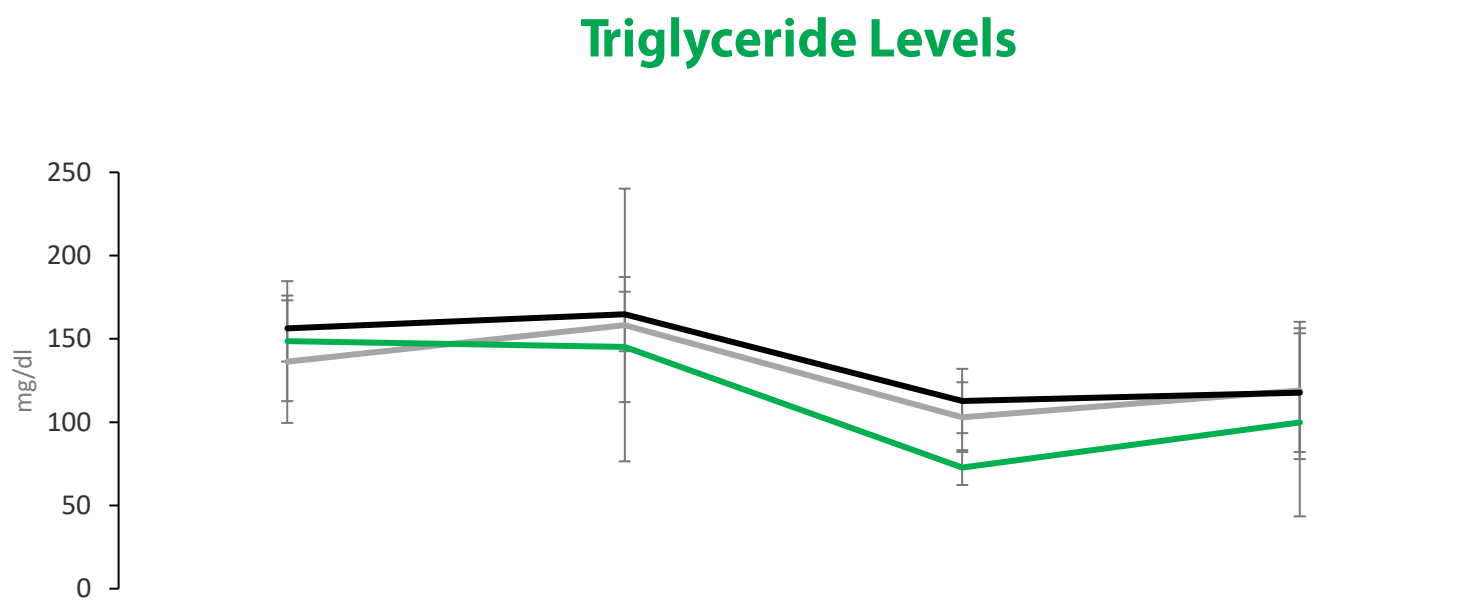
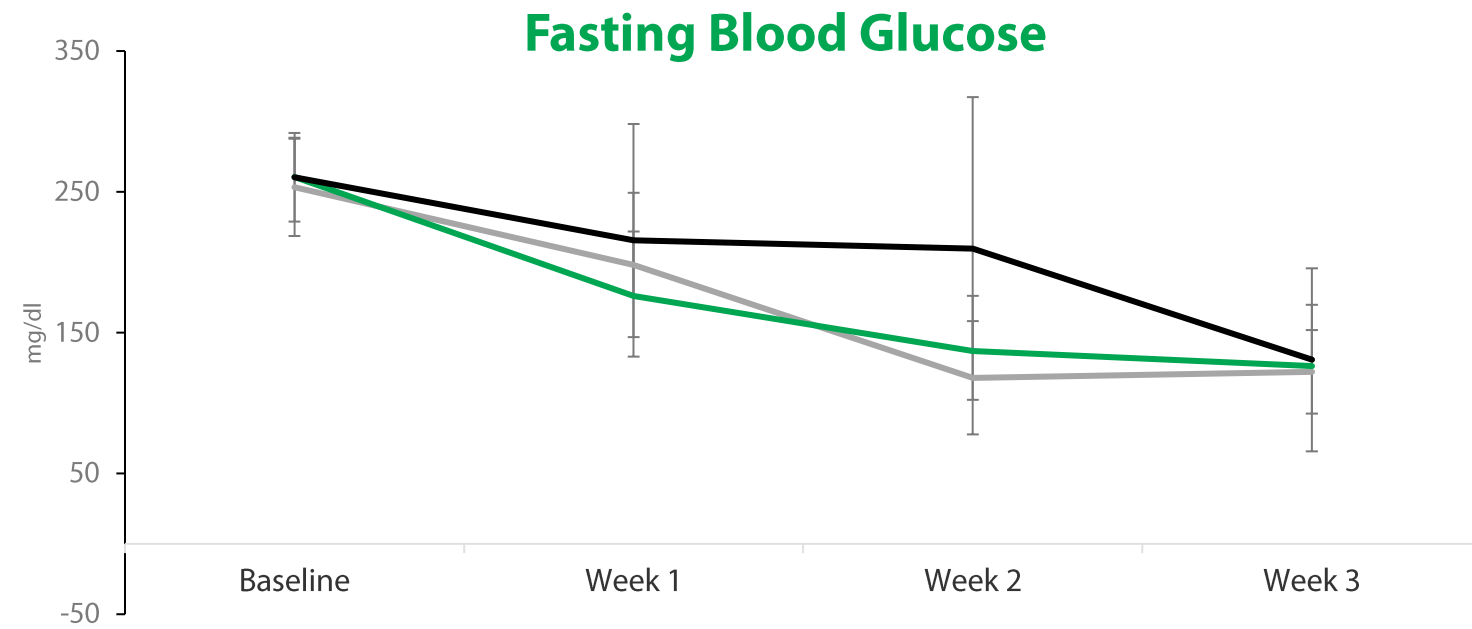


# Feijoa extract in Type II diabetic adults



# Feiolix powder outperforms extract

- 2300 mg
- 1150 mg
- Extract



# Dosage Study Outline

## Study groups:

- 2300 mg Feiolix
- 1500 mg Feiolix
- 300 mg Feiolix
- 100 mg Feiolix
- Non-Diabetic Control
- Metformin Control
- High Fat Diet Control

- ✓ 6 mice in each group
- ✓ Weeks 1-8 High Fat Diet
- ✓ Weeks 8-24 Intervention

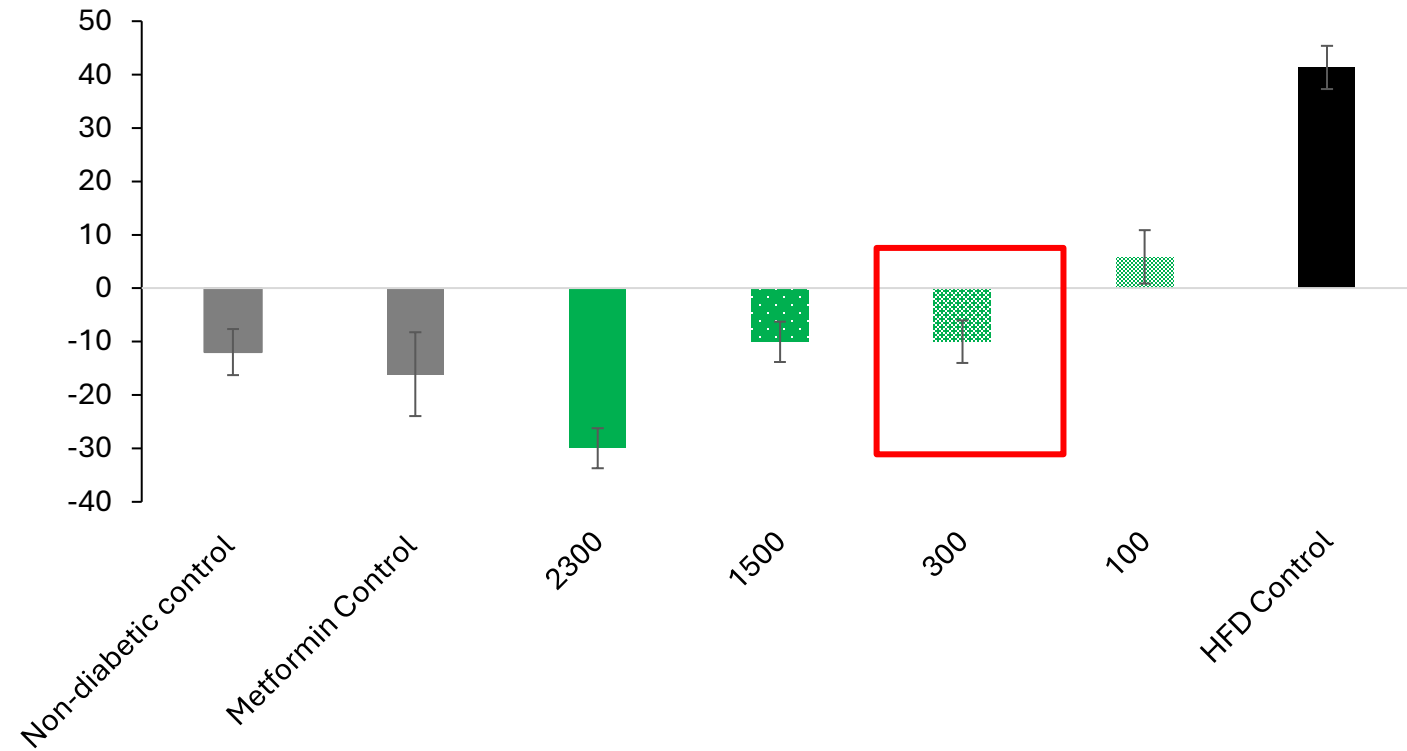
## Effective dose

- ✓ Significantly better than HFD Control
- ✓ NOT significantly different than either Metformin or NDC

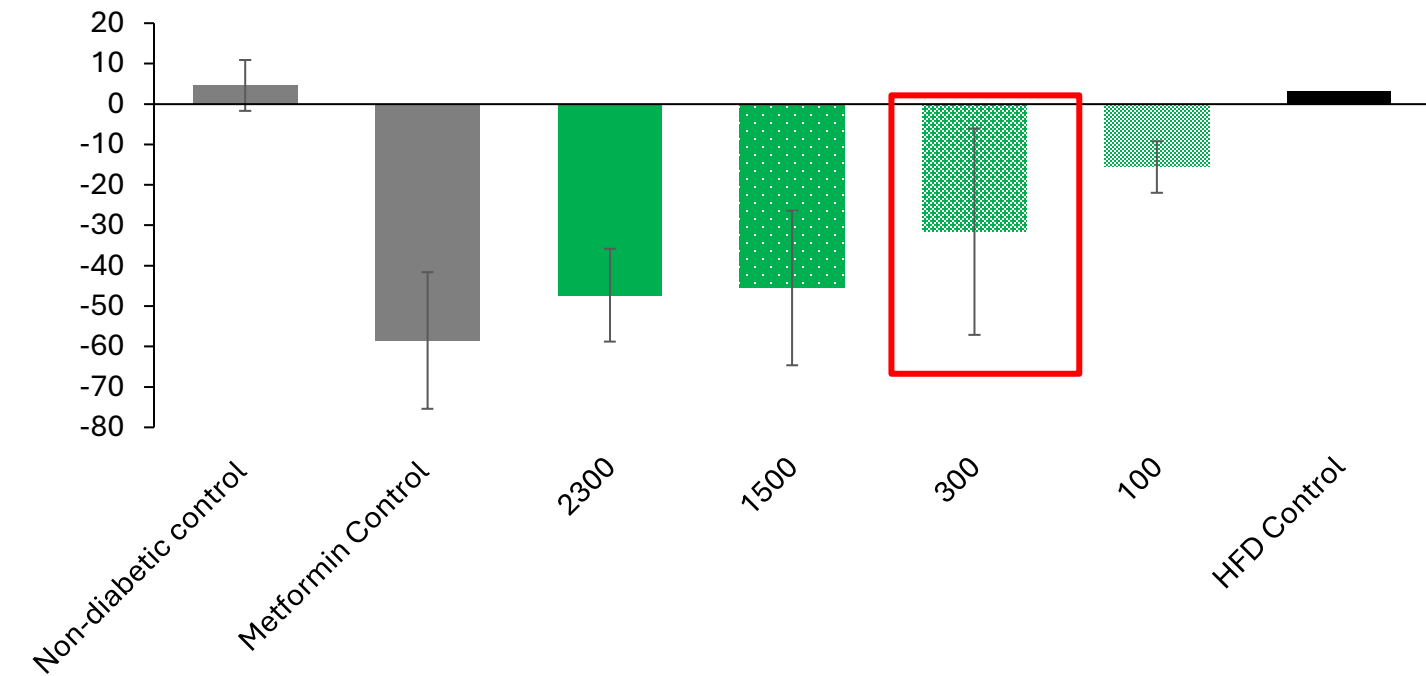


# Pre-clinical Dosage: 300 mg Low Dose Results

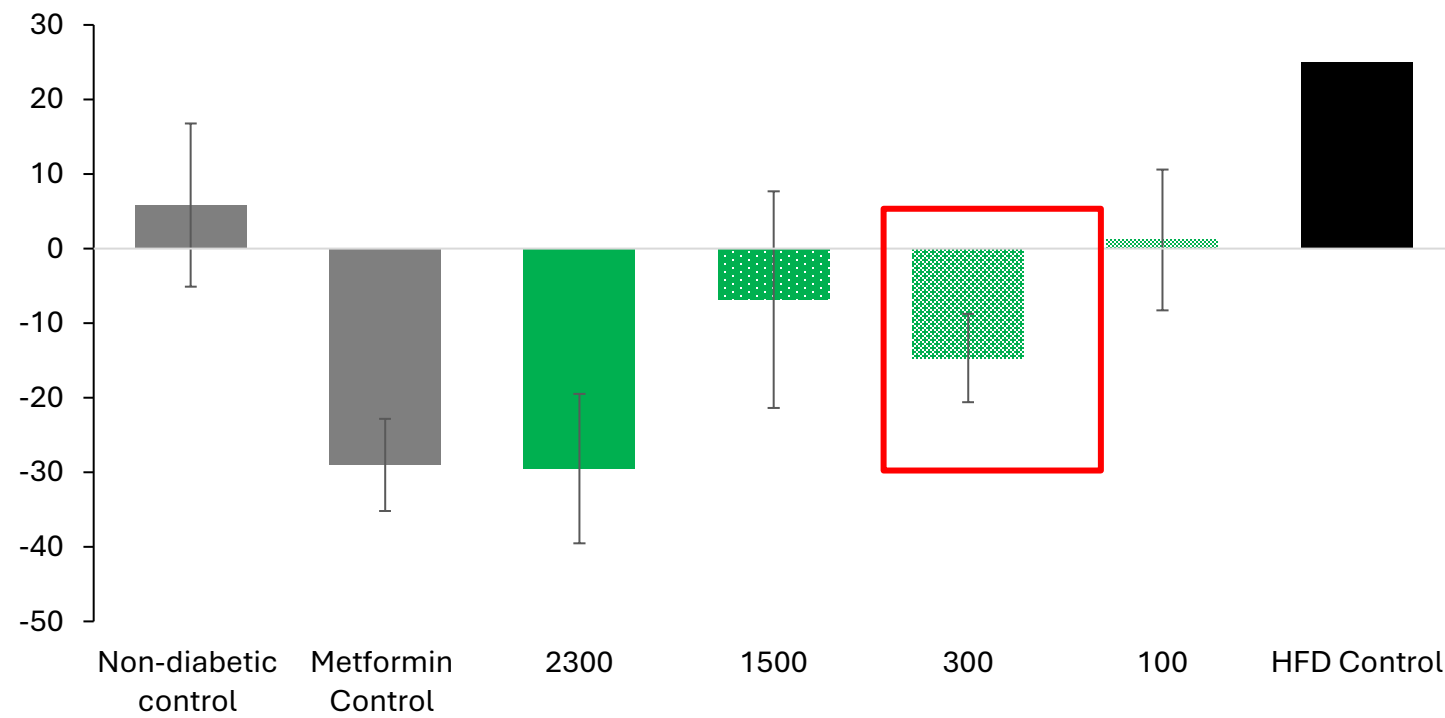
### Change in Blood Glucose 8-24 weeks



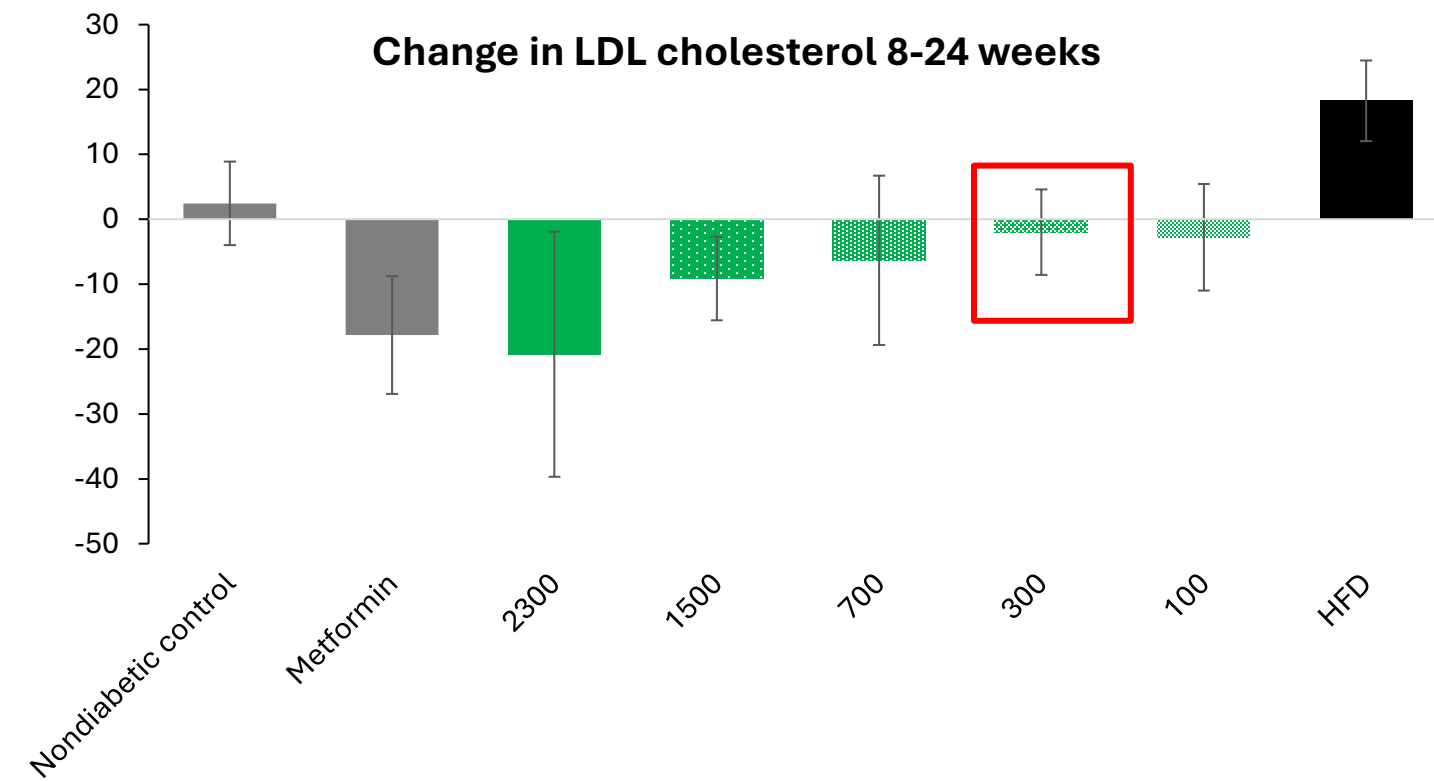
### Change Cholesterol 8-24 Weeks



### Change in Triglycerides 8-24 Weeks

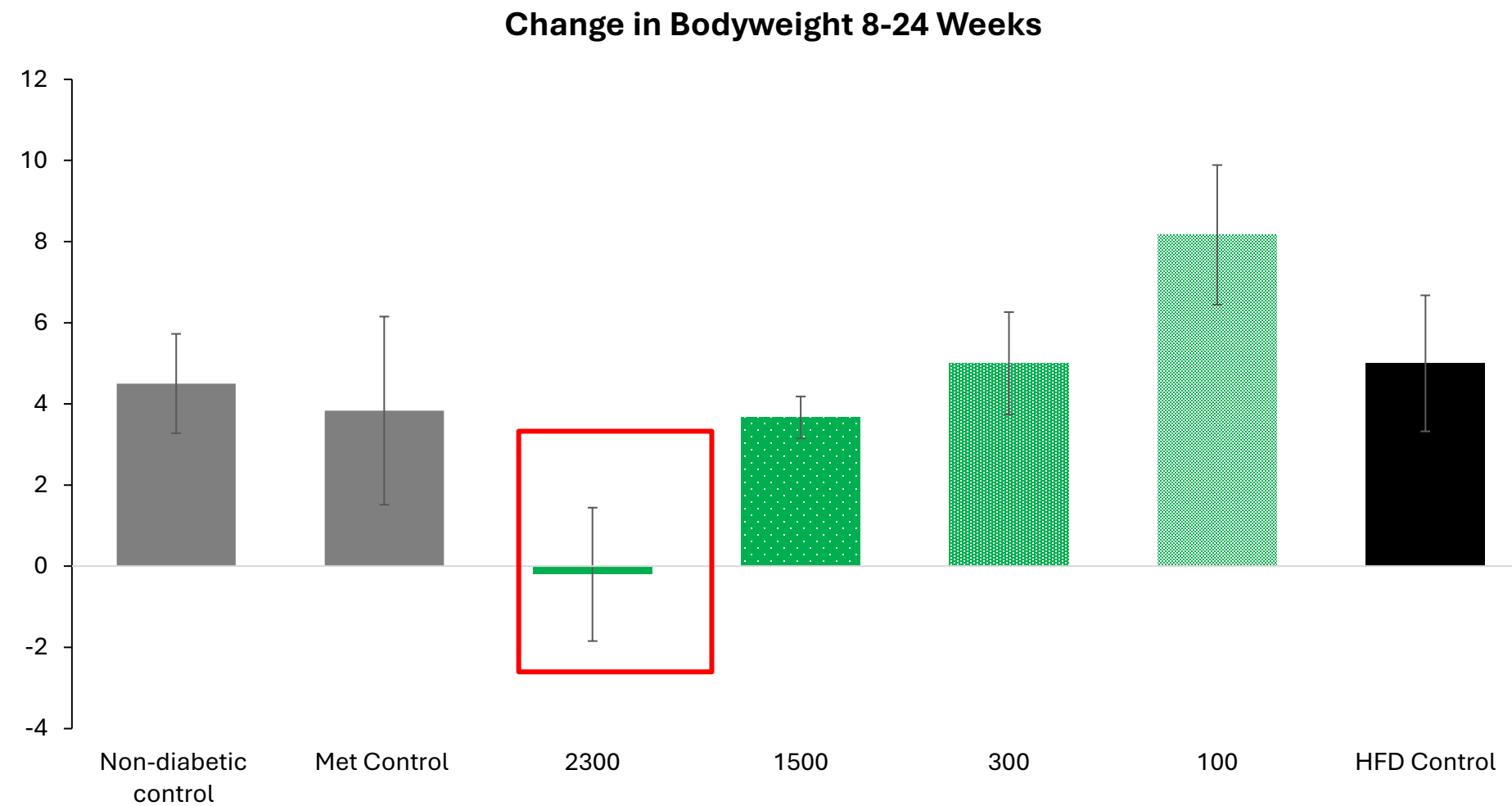


### Change in LDL cholesterol 8-24 weeks



# Preclinical Dosage: 2300 mg High Dose Results

Feiolix at 2300 mg/day may prevent weight gain and liver damage.

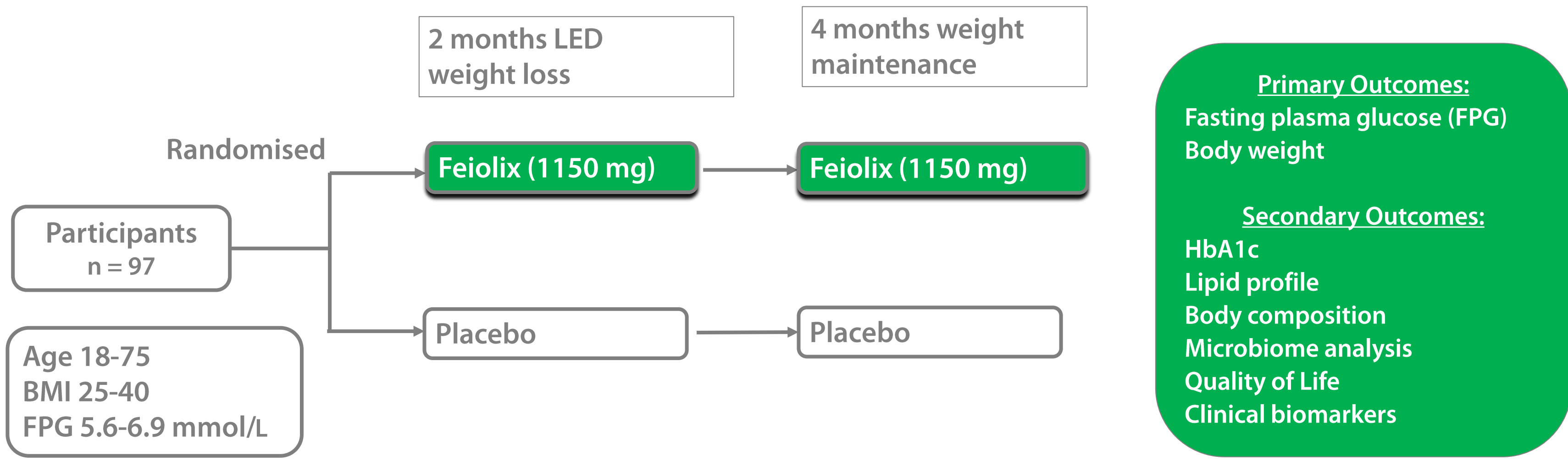


Liver histology	
Treatment	Score
NDC	-
Met	+
2300 mg	+
1500 mg	++
700 mg	++
300 mg	++
100 mg	++
HFD	+++



# FERDINAND Study design

*Evaluating FEijoa foR Diabetes Prevention in a Multi-ethnic New Zealand Cohort: The FERDINAND study. A community nutrition intervention in individuals with prediabetes.*



# Preliminary Results- FERDINAND study



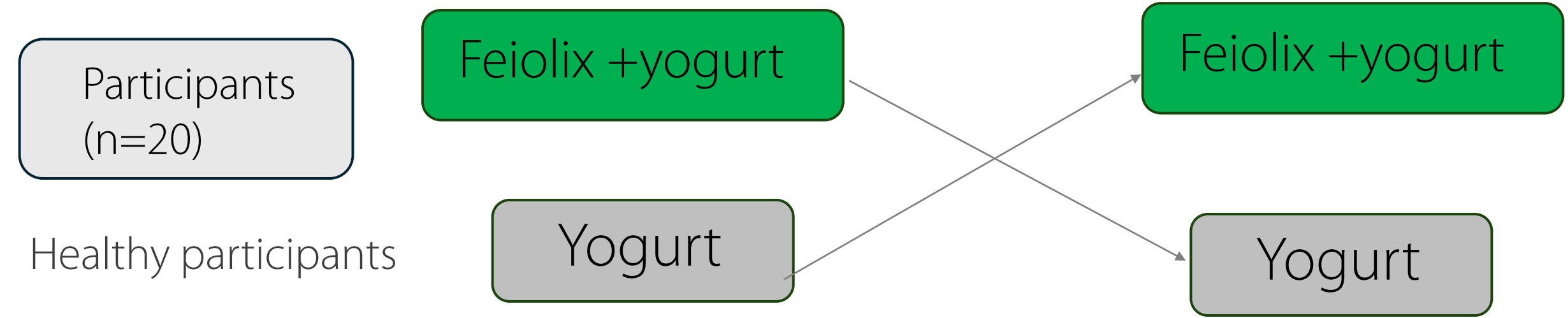
- Reduction in systolic blood pressure
- Improvement in glucose management

## Awaiting Results

- GLP-1
- Metabolomics
- Microbiome
- Immune + inflammatory markers



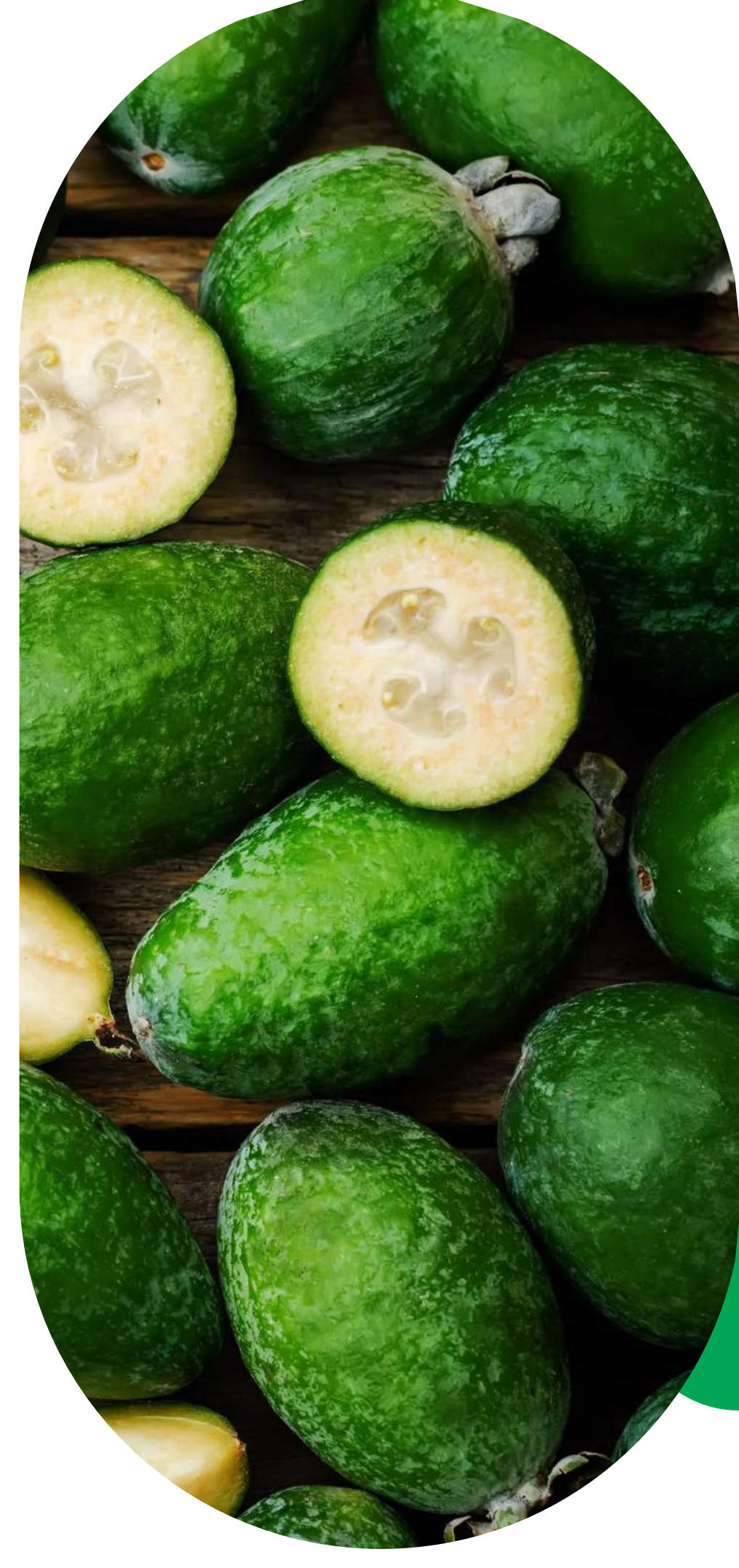
# Acute Synergy Study



**Study design: Acute single-blinded crossover randomised study**  
**Outcomes: Postprandial thermogenesis, glucose, insulin and appetite**  
Timepoints: Baseline (pre) and post ingestion for 3 h at multiple time points

**Assessing mid-dose Feiolix<sup>®</sup> for increased energy utilisation**

Anticipating results- by end of 2024



# Safety study: underway

Type II diabetic adults- open-label multi-centric study,  
n=30, 2300 mg Feiolix/day for 3 months

## ***Lipemic control***

- Cholesterol
- Triglycerides
- HDL
- LDL

## ***Glycemic control***

- Post prandial Blood Sugar
- Fasting glucose & Insulin
- HbA1c
- C-peptide
- HOMA IR
- HOMA  $\beta$

## ***Safety Parameters***

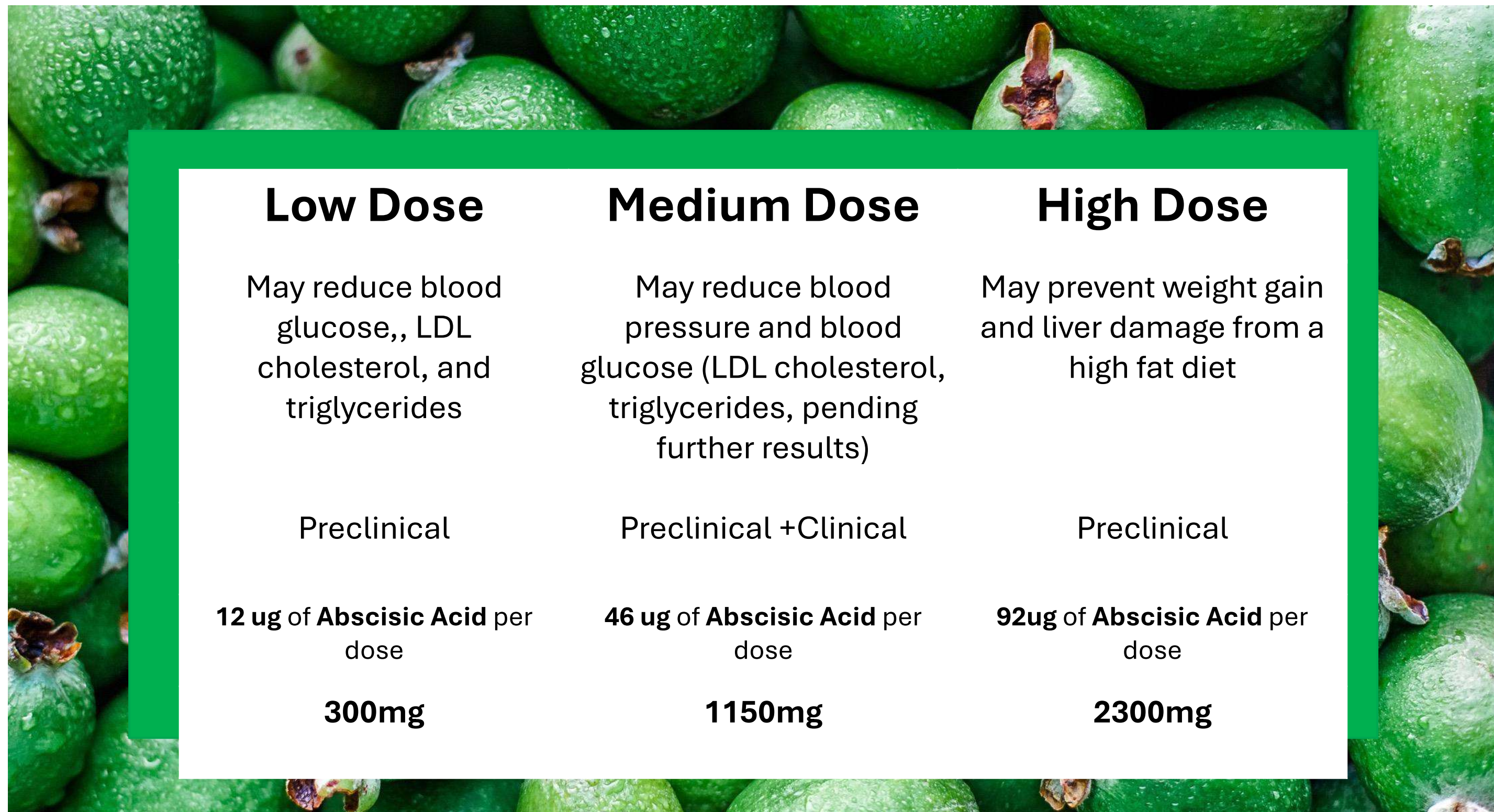
- S Bilirubin(mg/dL)
- SGOT
- SGPT
- Alkaline Phosphatase
- Gamma GT (Creatinine)
- Urine Sugar
- Urine Protein
- Urine Micro Albumin
- Ketone bodies
- Total blood count

***Safety and efficacy assessment of high-dose Feiolix***

*Estimated completion 2024*



# Dosage statement



<b>Low Dose</b>	<b>Medium Dose</b>	<b>High Dose</b>
May reduce blood glucose,, LDL cholesterol, and triglycerides	May reduce blood pressure and blood glucose (LDL cholesterol, triglycerides, pending further results)	May prevent weight gain and liver damage from a high fat diet
Preclinical	Preclinical +Clinical	Preclinical
<b>12 ug of Abscisic Acid</b> per dose	<b>46 ug of Abscisic Acid</b> per dose	<b>92ug of Abscisic Acid</b> per dose
<b>300mg</b>	<b>1150mg</b>	<b>2300mg</b>



FEIOLIX

■ Global ■ Asia-Pacific ■ Europe ■ North America



Consumers are looking to improve their long-term health, such as avoiding diabetes, improving weight, cholesterol, and reducing blood pressure.



FEOLIX

# Menopause Opportunity



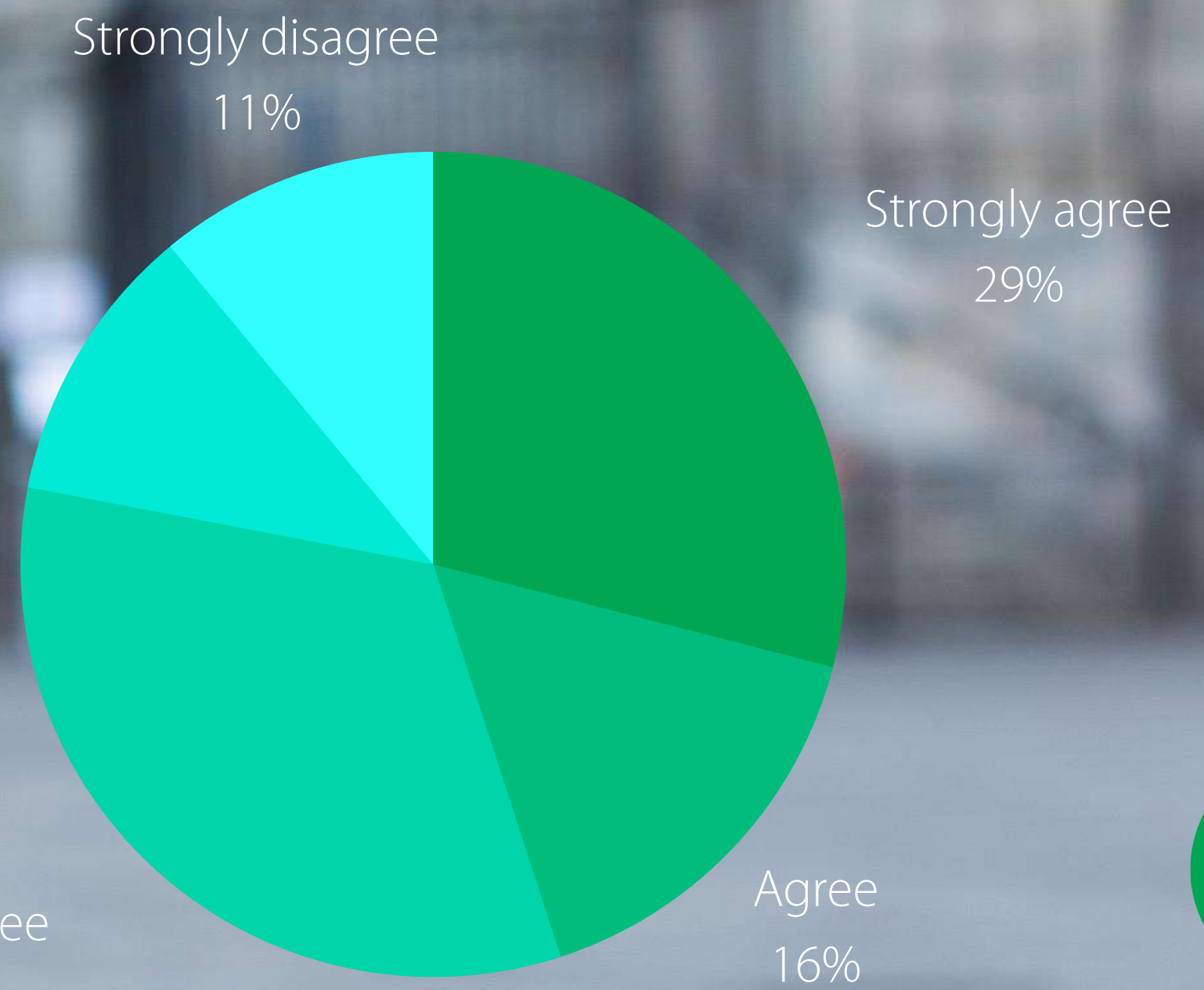


FEIOLIX



# Menopause affected 45% of women in the US

Percentage of women aged 40-65 years in the United States who agreed that menopausal symptoms have affected their life as of 2021



SOURCE: STATISTICA 2022

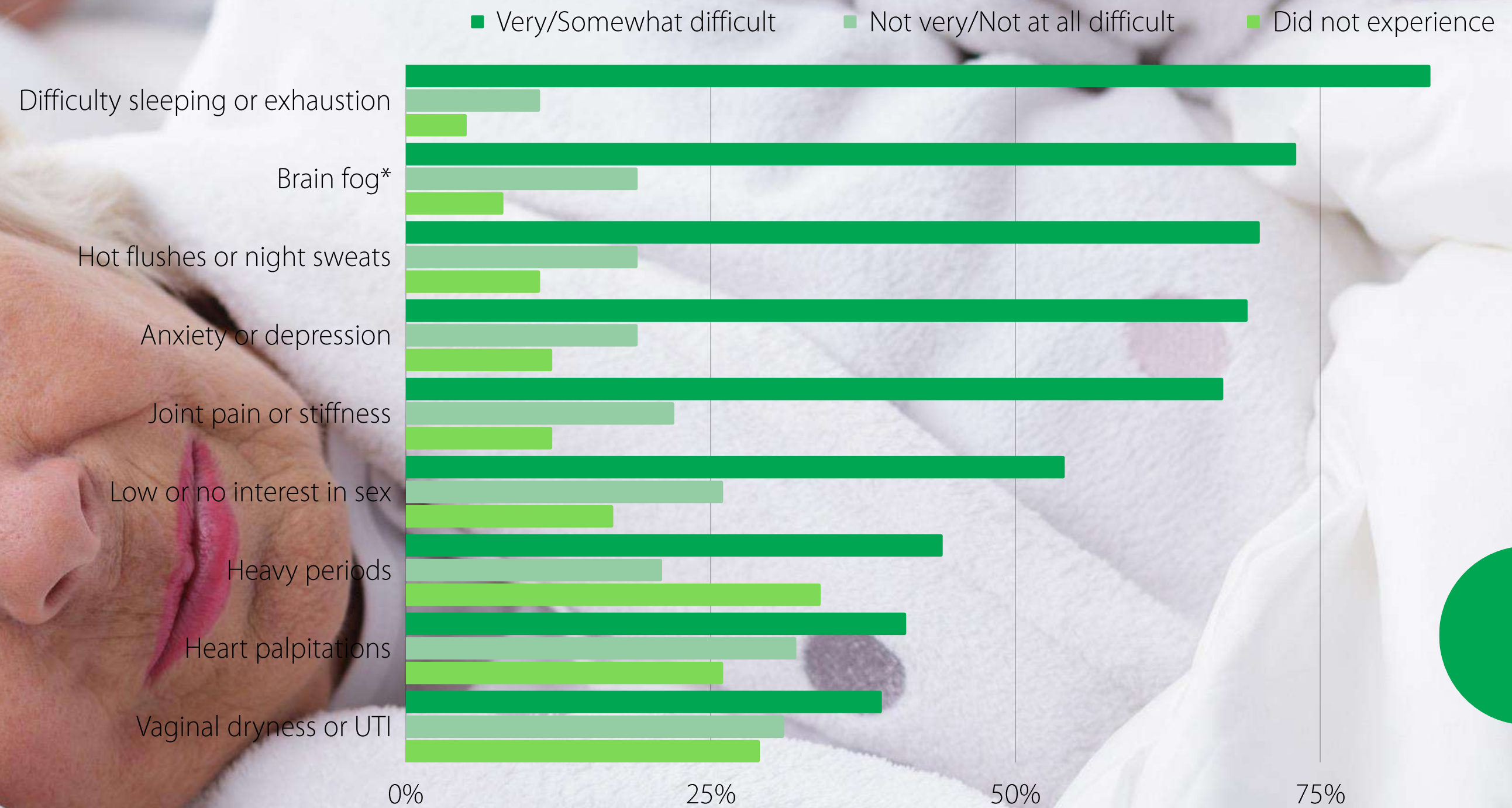


FEIOLIX



# Over 50% of menopausal women found sleep, brain fog, hot flushes, joint pain and reduction in sex drive most difficult to handle

Extent to which women found the following perimenopause or menopause symptoms difficult in the United Kingdom (UK) as of 2022



SOURCE: STATISTICA 2023

# Menopause & Hormonal Support

Feiolix®

**Hormonal support and  
menopause symptom relief**

**Abscissic acid & GLP-1**

**Estrabolome: Prebiotic  
(xyloglucans & xylans) support  
growth of beneficial bacteria that  
aids in estrogen metabolism,  
reuptake & circulation**

Menopause Market  
Acceptance

**Consumer Study in progress:**

- 21 peri or postmenopausal women
- Experiencing menopausal symptoms
- 700 mg Feiolix/day for 8 weeks





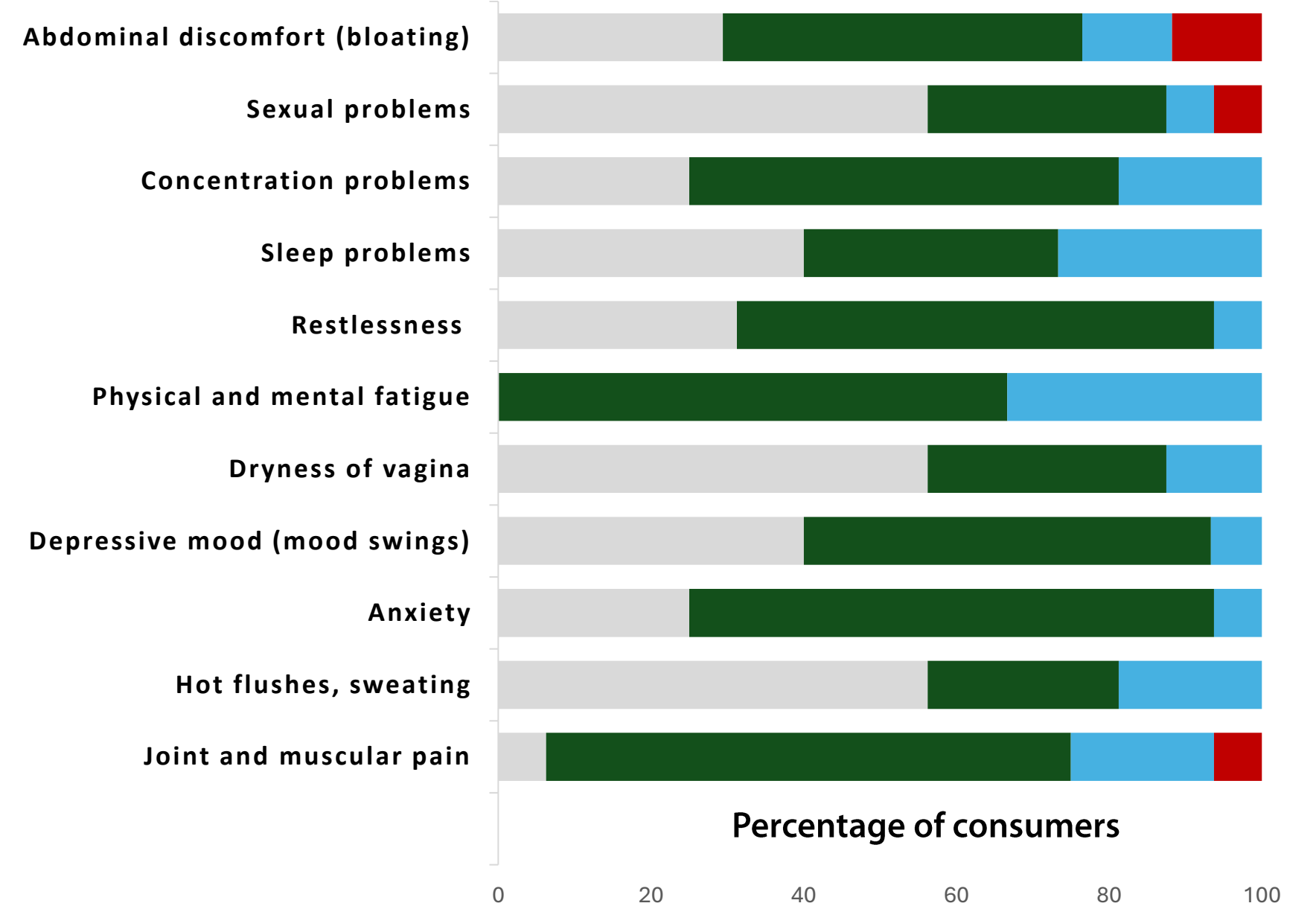
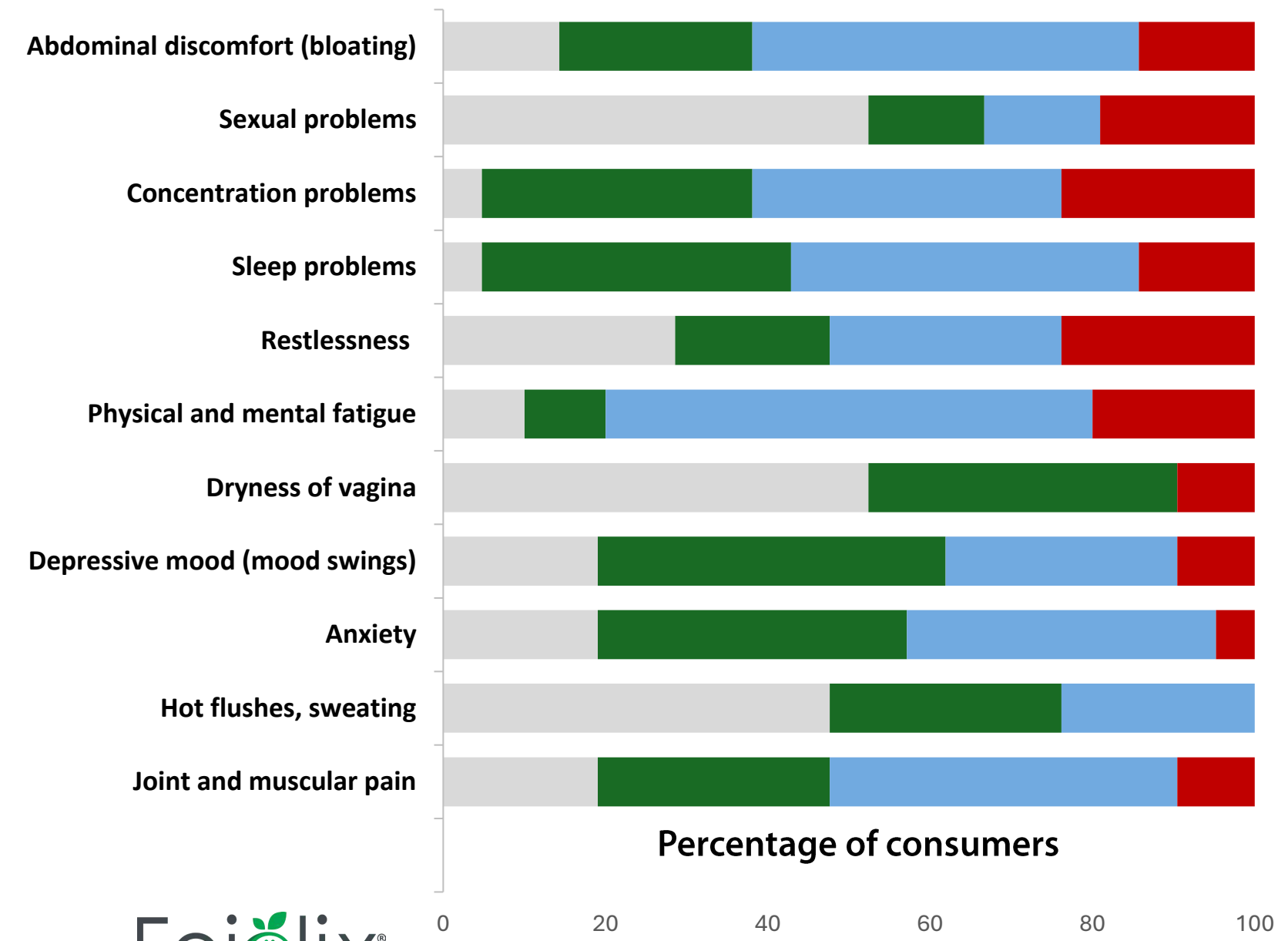
# Menopause Market Acceptance Testing

*“Majority of consumer reported milder symptoms after Feiolix intake (700 mg) compared to baseline”*

■ Absent  
■ Mild  
■ Moderate  
■ Severe

At baseline

After 3 weeks





# The Experiment

- *In vitro* growth experiment to measure stability and growth of probiotic strains on a nutrient broth supplemented with Anagenix ingredients.
- Absorbance (optical density) used to measure growth.



## Additionally

- Anagenix ingredients were not heated or irradiated to prevent structural change
- Insoluble compounds such as fibres were retained (no centrifugation)
- Low molecular weight components such as sugars were removed through *in vitro* gastric and small intestinal digestion simulation
- Serial dilution to test different concentrations (dosages of Anagenix ingredients)



# The Strains: 11 clinically proven probiotics

Strain	Health Benefit
<i>Bacillus coagulans</i> SC208	Digestive health and overall wellbeing Supports protein digestion and absorption
<i>Lactiplantibacillus plantarum</i>	Weight management & metabolic support
<i>Lactiplantibacillus plantarum</i> 299v	Digestive health - IBS & IBD symptom support
<i>Lactobacillus gasseri</i>	Weight management & metabolic support
<i>Lacticaseibacillus rhamnosus</i> strain A	Skin health - Gut-skin axis to improve skin health, particularly inflammation-derived issues - support for allergic type skin conditions (e.g. atopic dermatitis / eczema)
<i>Lacticaseibacillus rhamnosus</i> strain B	Immune system support - reduce incidence of upper respiratory tract infections (URTI) - reduce number of lost school days due to illness - support recovery from illness
<i>Lacticaseibacillus rhamnosus</i> strain C	Skin health - Gut-skin axis to improve skin health, particularly inflammation-derived issues - support for allergic type skin conditions (e.g. atopic dermatitis / eczema)
<i>Lacticaseibacillus rhamnosus</i> HN001	Women's health, including immune health, skin health, mood/mental health, pregnancy/maternal health
<i>Bifidobacterium animalis</i> ss. <i>lactis</i>	Digestive health
<i>Bifidobacterium animalis</i> ss. <i>lactis</i> HN019	Digestive health - Improves intestinal transit time - Reduces GI symptoms, e.g. bloating, constipation, wind
<i>Bifidobacterium animalis</i> ss. <i>lactis</i> BI-04	Digestive health - Improves intestinal transit time - Reduces GI symptoms, e.g. bloating, constipation, wind

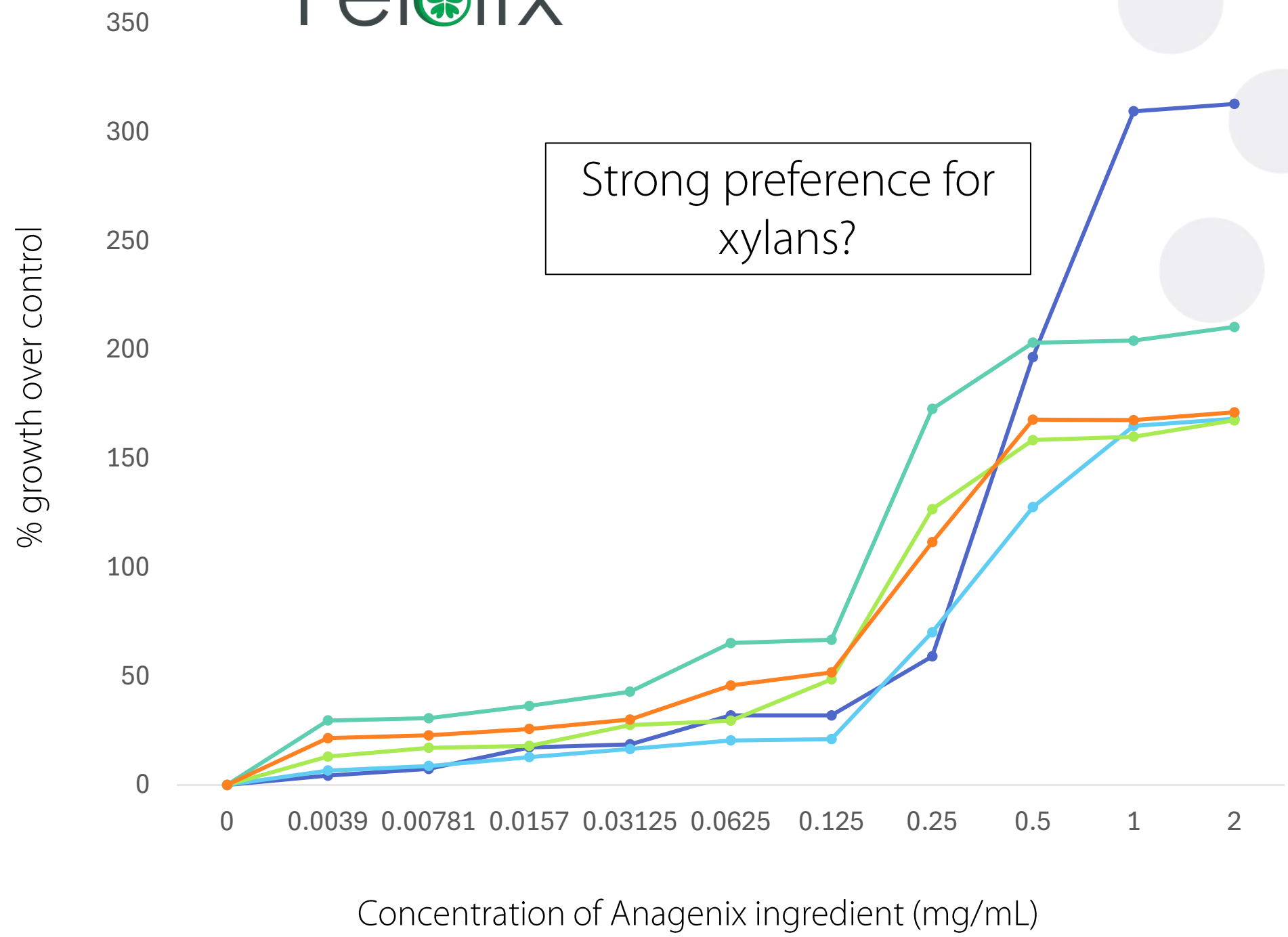




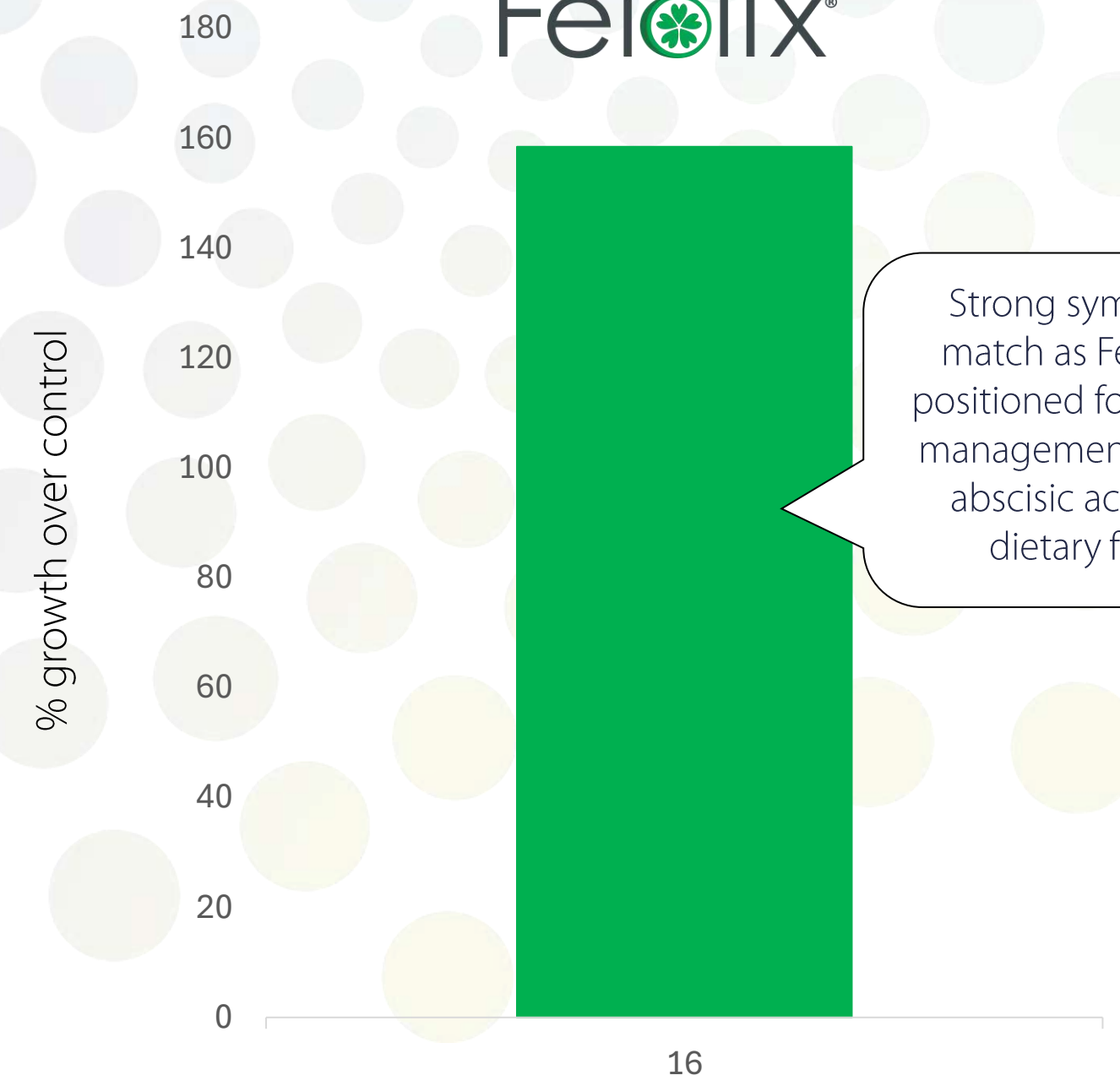
# *Lactobacillus plantarum*

- Weight management
- Metabolic support

Feiolix®



Feiolix®



Strong symbiotic match as Feiolix is positioned for weight management due to abscisic acid and dietary fiber

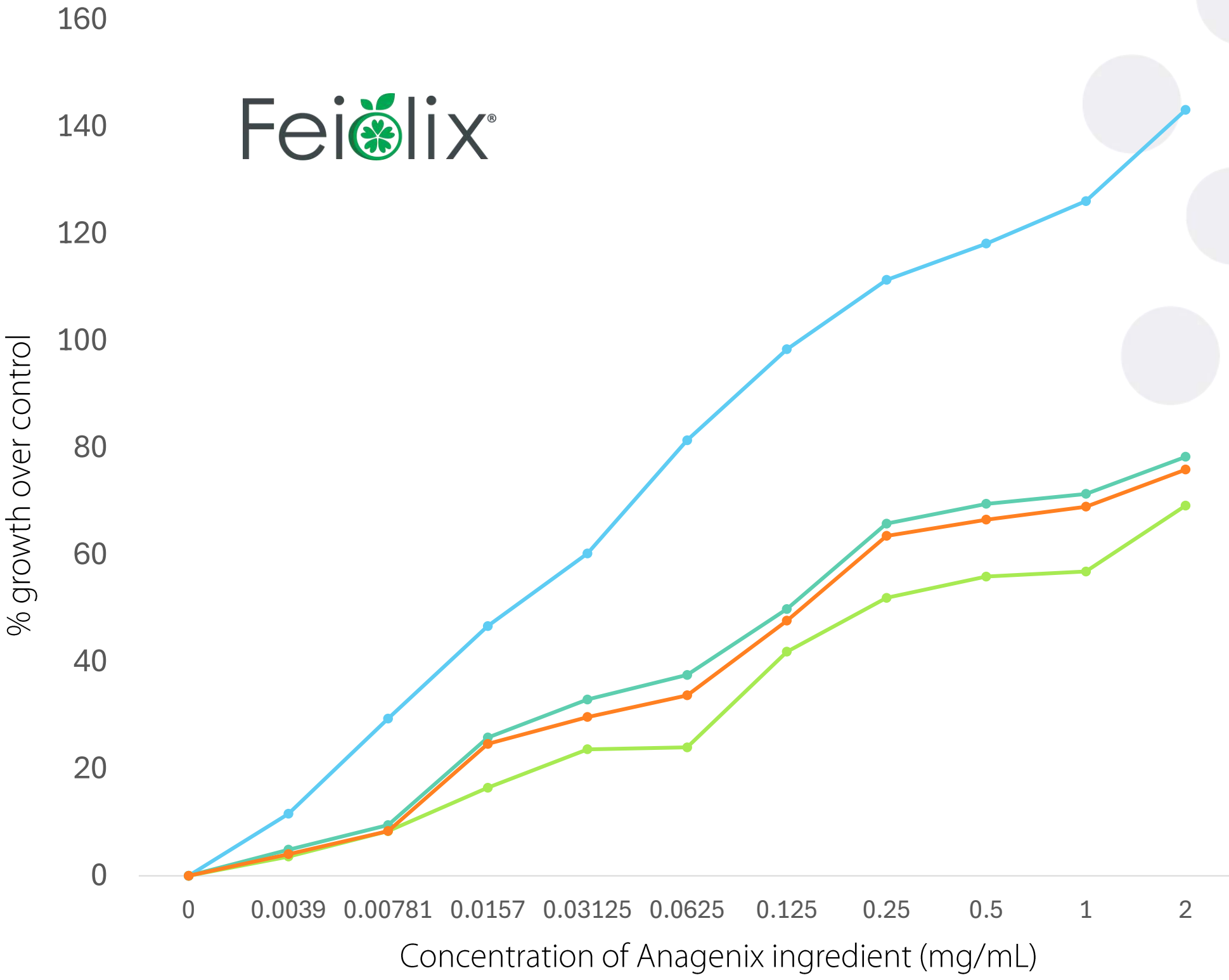
Anagenix products (0.5 mg/mL) promoting probiotic growth at 16 hours



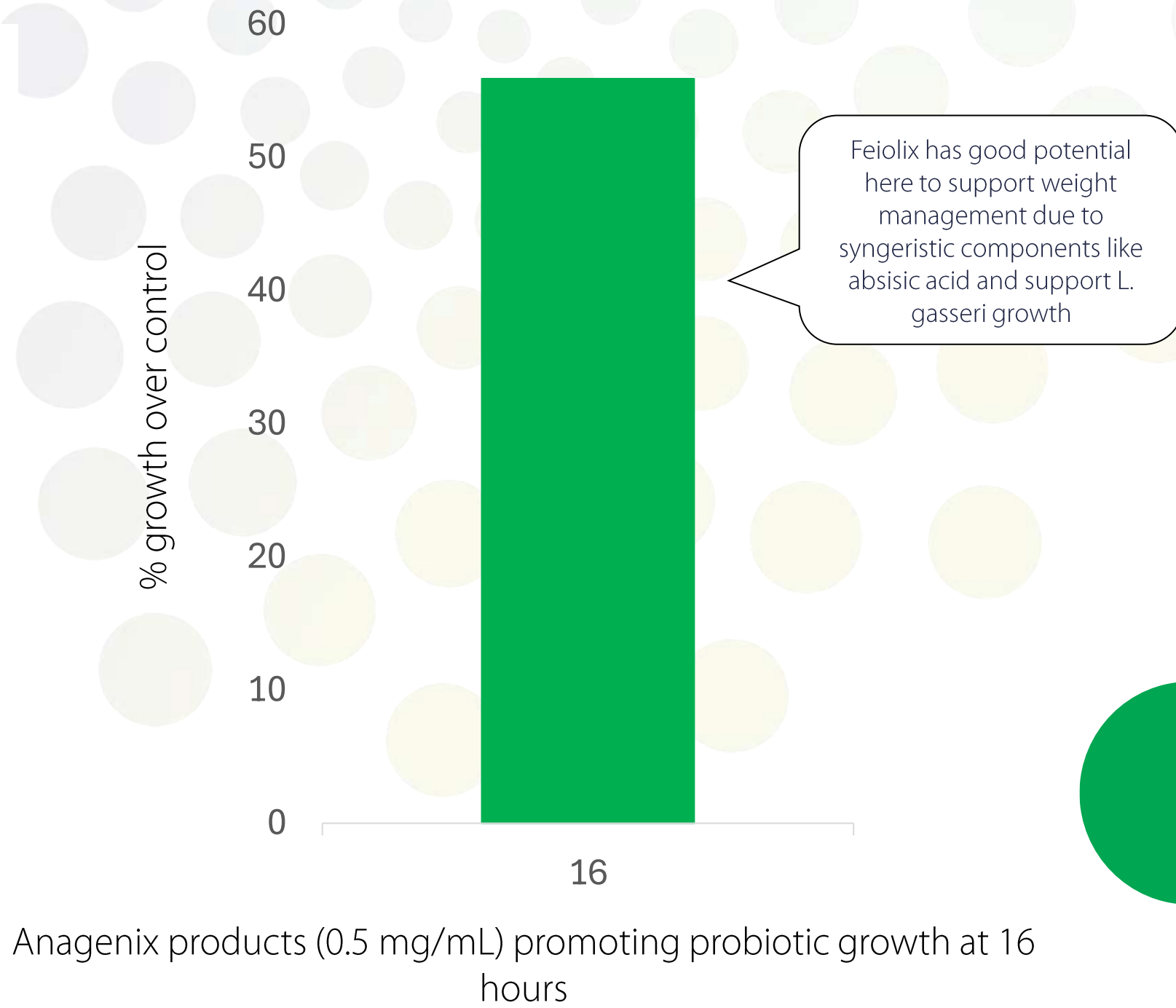
# *Lactobacillus gasseri*

- Weight management & Metabolic support

FeioliX®



FeioliX®

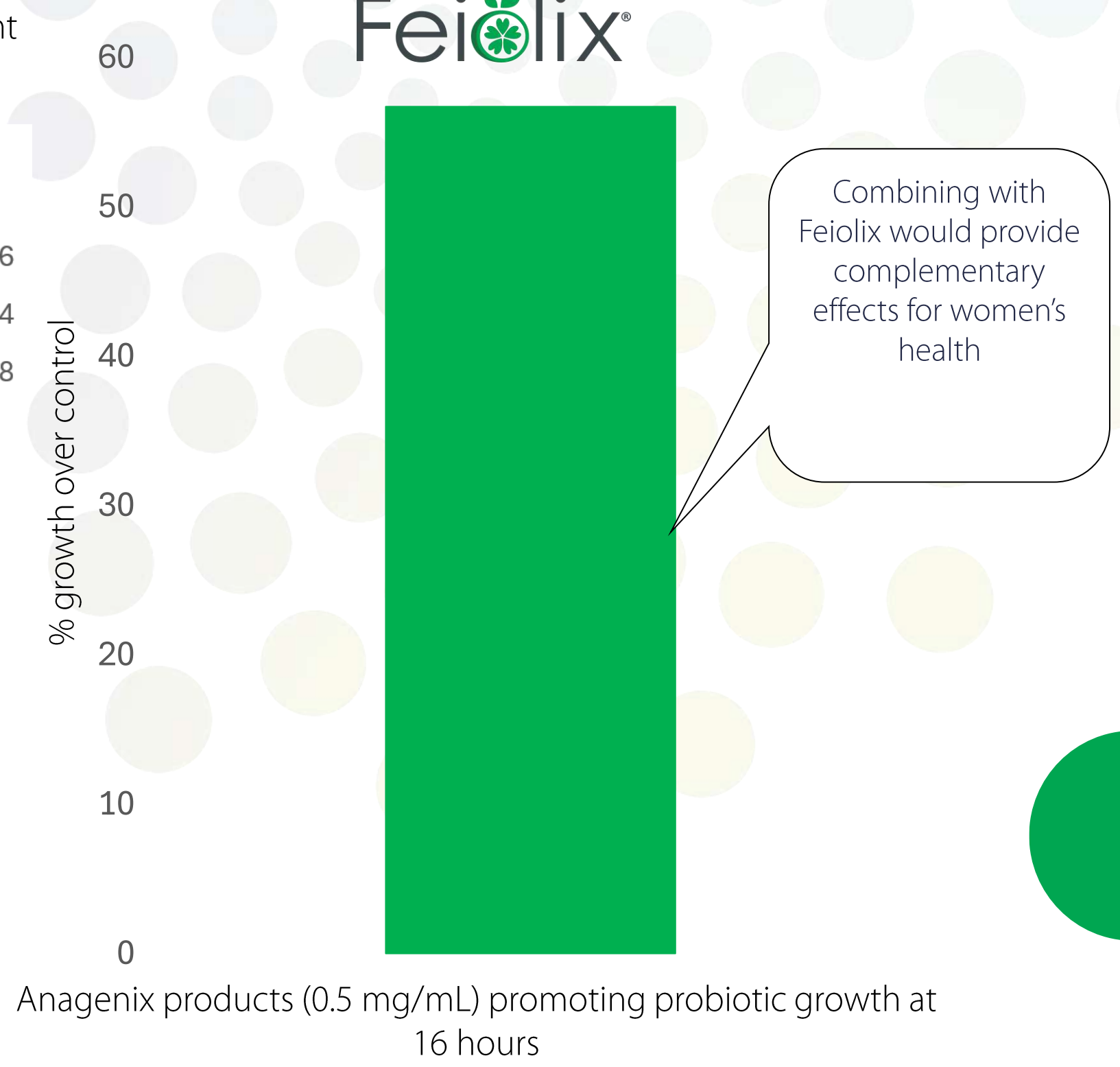
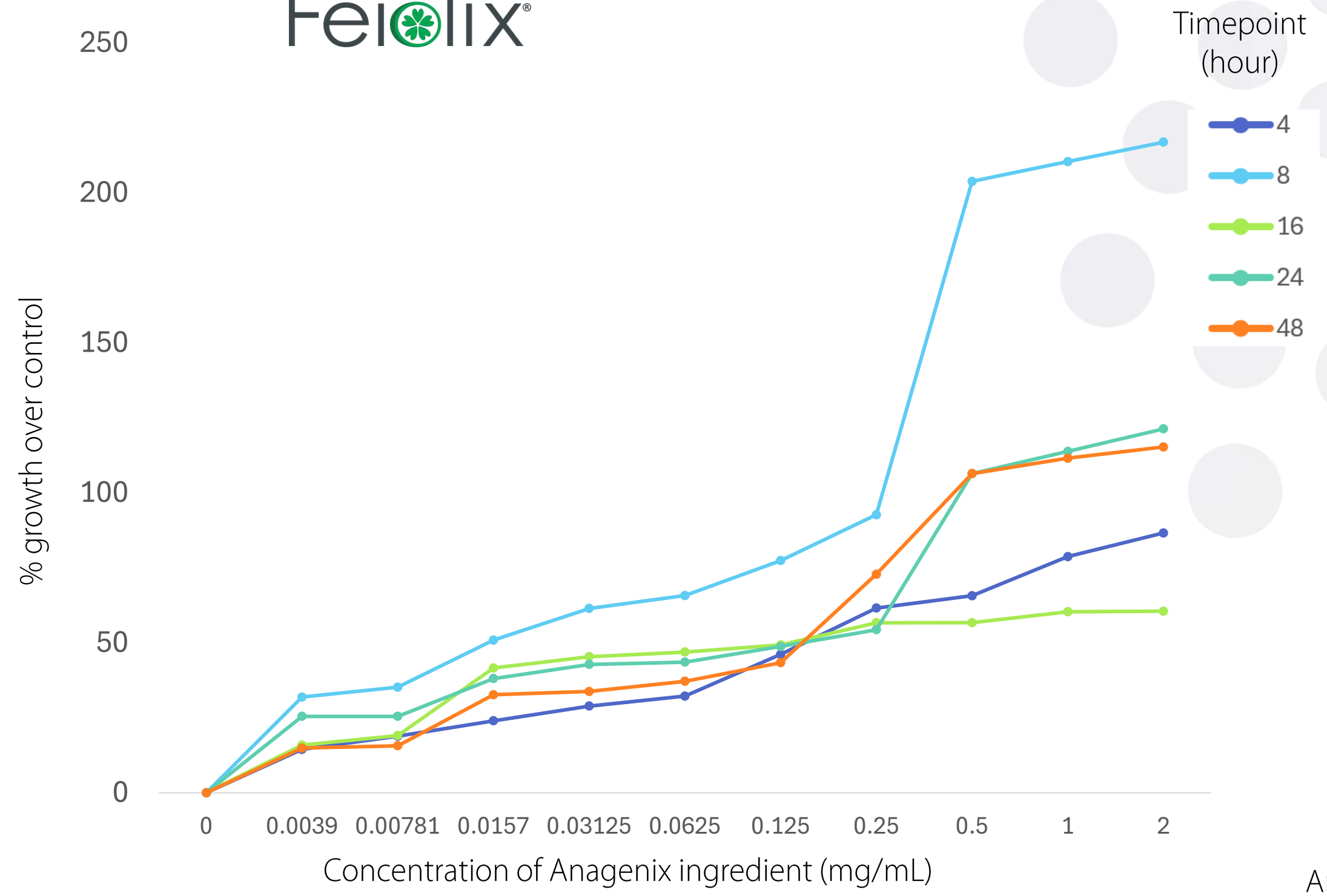


FeioliX has good potential here to support weight management due to synergetic components like abisic acid and support *L. gasseri* growth



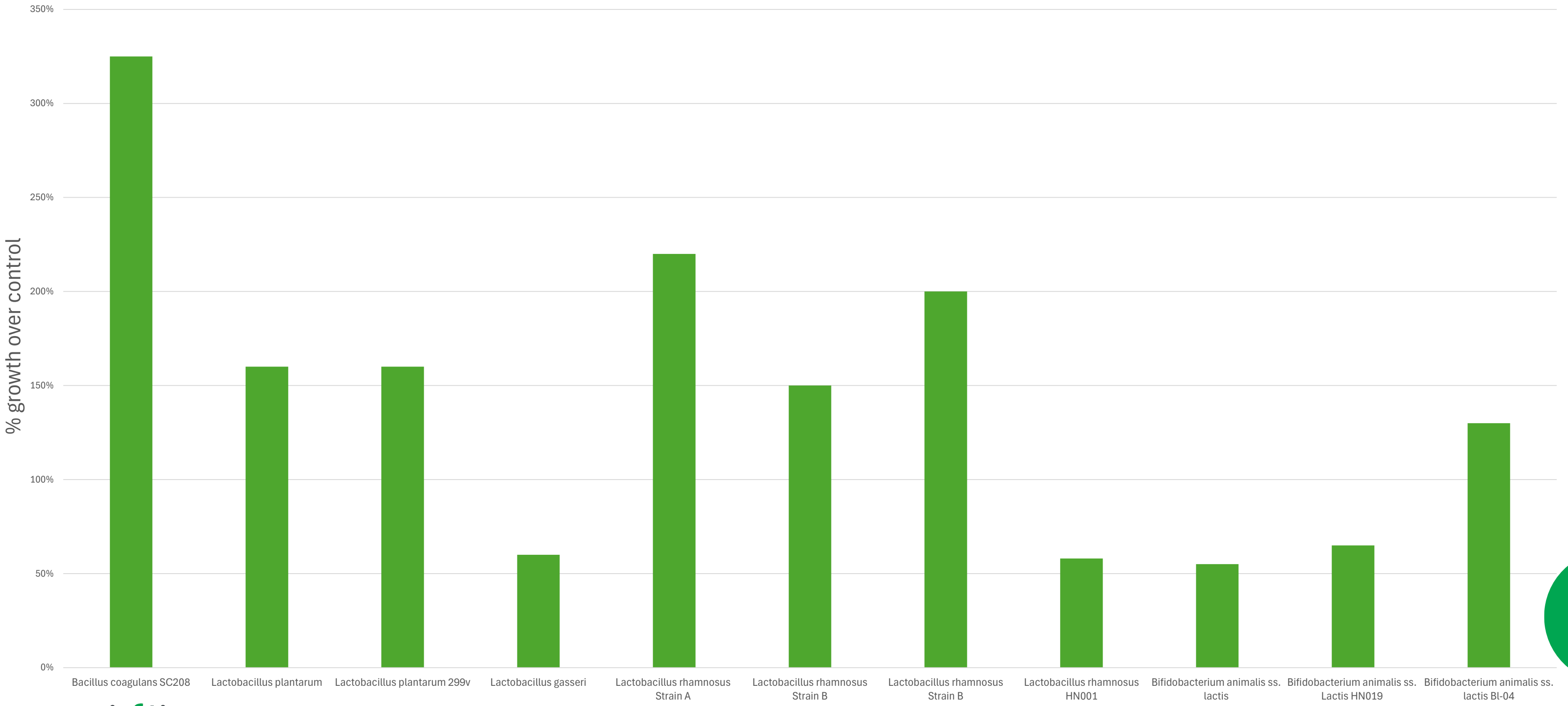
# *Lacticaseibacillus rhamnosus HN001*

- Women's health, Immune health, Skin health, Mood/mental health, Pregnancy/maternal health





# Synbiotic growth relationship between Feiolix and Probiotic strains



Anagenix Feiolix (0.5 mg/mL) promoting probiotic growth at 16 hours





# Feiolix: Specification and Manufacturing Support

## Physical Characteristics

**Appearance:** Free-flowing powder

**Colour:** Light brown to tan

**Taste/Odour:** Delicious! Tastes just like a feijoa (somewhere between a guava, a pineapple, and a pear)

**Abscisic acid:** >4.00 mg/100g

**Particle size:** Milled through US 20 mesh

**Bulk density poured/tapped :** 0.50/0.63 g/mL

**HR/CI :** 1.26 / 20.6

## Storage and Shelf Life

**Shelf Life:** 36 months

**Storage:** Store and transport cool and dry  
Mildly hygroscopic, works well with MCC, Aerosil.  
Magnesium stearate

**Temperature:** Works well at high temperatures

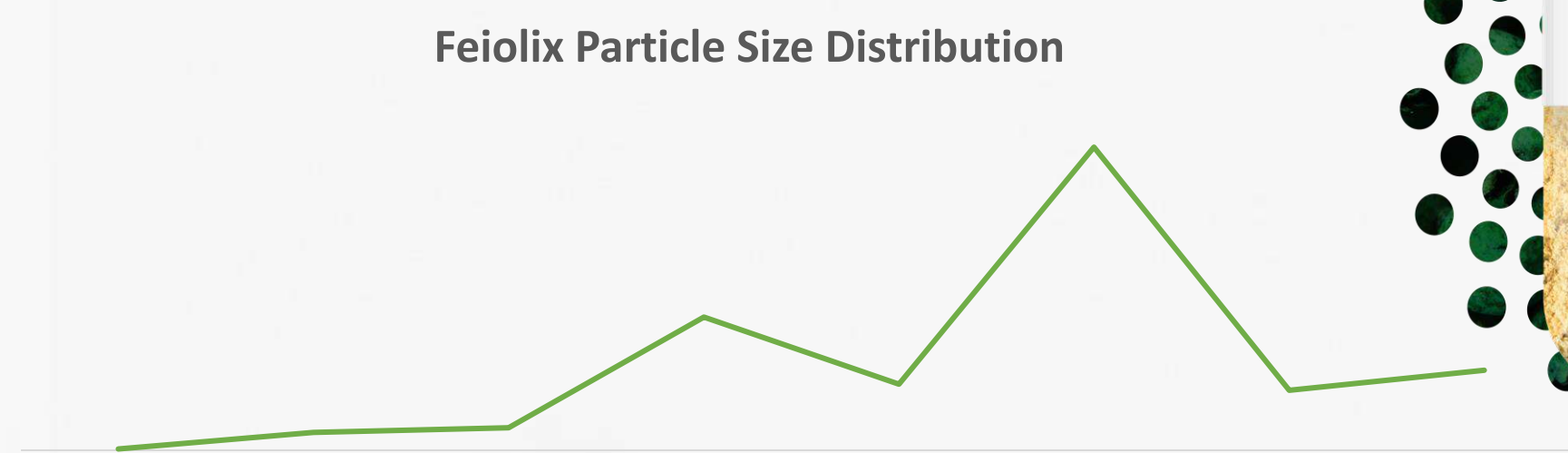
## Format Options

Feiolix's amazing taste makes it ideal for **tablets, chewables, sachets, powders, gummies, lollies**, foods!

Feiolix is also suitable for encapsulation. Speak to us if you would like specific excipient recommendations

Feiolix Particle Size Distribution

50.00%  
40.00%  
30.00%  
20.00%  
10.00%  
0.00%





# Formulation Ideas

Feioli<sup>x</sup>

- 1 Fiber/ Gut Health – As a Pre/Pro Biotic combination**  
Glucomannan, psyllium husk, and inulin can increase feelings of fullness and positively influence GLP-1 levels. Probiotics can also improve gut health and lead to better regulation of GLP-1
- 2 Metabolism Boosters**  
Green tea extract contains catechins and caffeine that can help boost metabolism and fat oxidation. It may also enhance GLP-1 secretion.
- 3 Blood Sugar and Insulin Regulation / Natural alternative to Ozempic**  
Chromium may help regulate blood sugar levels and improve insulin sensitivity, indirectly supporting GLP-1 secretion. Berberine and cinnamon extract also help with blood sugar control and insulin sensitivity.
- 4 Omega-3s**  
Fish oil containing omega-3 fatty acids may help with weight management and influence GLP-1 levels.
- 5 Vitamin D and Joint Health for Menopause**  
Adequate vitamin D levels are associated with better metabolic health and insulin sensitivity, which can affect GLP-1 secretion. Feioli<sup>x</sup> has also been demonstrate to improve joint pain symptoms.



# Product Comparison and Compatibility

ABA vs Polyphenol  
Thermogenesis

Ginseng

Feiolix

Berberine

Black garlic

Cinnamon

Chromium

Mullberry leaf

Amylase vs Lipase Inhibitor

Green tea

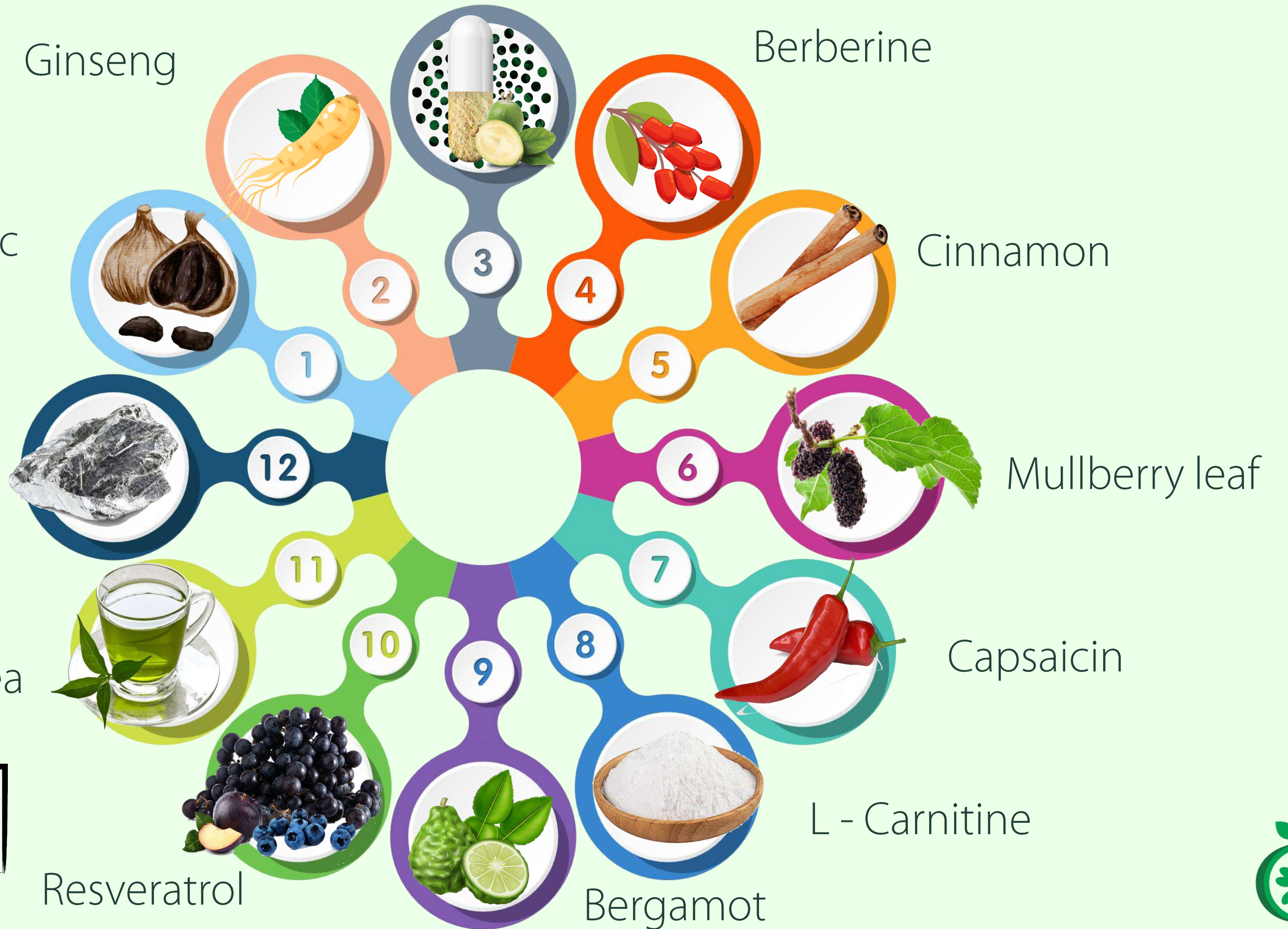
Capsaicin

Increased biavailability

Resveratrol

Bergamot

L - Carnitine





# Fibre Gut Health Synbiotic NPD



Functional Food Bar

- Feiolix
- Oat Fibre (soluble fibre content)
  - Almonds (for healthy fat)



Pre/Probiotic Capsule for Weight Management

- Feiolix
- Lactobacillus plantarum (for weight management)
- Lactobacillus gasseri (for metabolic support)



Pro/probiotic capsule for menopausal symptom relief

- Feiolix
- Lactobacillus rhamnosus HN001 (for women's health)



# Metabolism/ Weight Management NPD



Weight Control Sachet

- Feiolix
- Glucomannan (fibre for satiety)
- Green Coffee Bean Extract (supports thermogenesis and metabolism)



Weight Management Chewable

- Feiolix
- Green tea extract (catechins that aid in fat oxidation)
- Berberine (increase in metabolic rates)



Weight Balance Capsules

- Feiolix
- Garcinia Cambogia Extract (supports app control)
- Chromium (helps regulate blood sugar levels)



# Menopause NPD



Menopause Relief Gummies

- Feiolix
- Red Clover Extract (menopausal symptom relief)
  - B-vitamins (energy levels)
    - Saffron



Menopause Support Capsules

- Feiolix
- Black Cohosh Extract (hot flash alleviator)
- Vitamin E (support skin health)
  - Pycnogenol

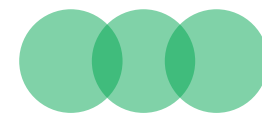


Menopause Smoothie Mix

- Feiolix
- Chia Seeds (high in omega-3 fatty acids, which can help with mood swings and heart health)
  - Calcium (for bone health)
    - Vitamin D



# Market Positioning

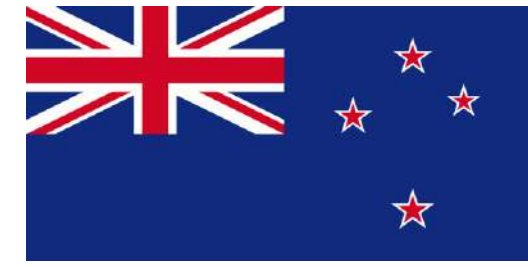


- Healthy Ageing
- Blood Glucose Management
- Metabolic Support
- Weight Management
- Cholesterol Balance
- Menopause
- Weight Loss
- Green/Functional Foods
- Synbiotic Pre/Probiotic





# Feiolix<sup>®</sup>



## Claims

- Provides metabolic support
- Supports joint health
- Supports weight management
- Helps reduce systolic blood pressure
- Supports healthy blood glucose and triglycerides
- Supports growth of probiotics
- Supports hormonal balance





# FeioliX<sup>®</sup>

## Patents

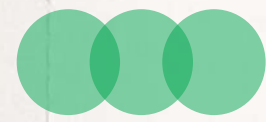
- USA
- New Zealand
- Australia
- China
- Canada

WO2013/186680A1 FEIJOA FRUIT EXTRACT in the treatment of Type 2 Diabetes and Rheumatoid Arthritis

Claims summary:

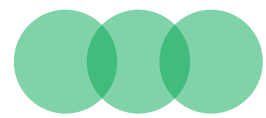
1. A method of **lowering serum lipids** in a patient...
2. A method of **lowering serum glucose** in a patient...
3. A method according to claim 2 wherein **HbA1c is reduced**...
4. A method of **lowering blood pressure**...
5. A method of ameliorating the symptoms of metabolic syndrome...
6. A method of preventing or **reducing obesity**...
7. A method of **regulating immune function**...
8. A method of treating a disease or disorder associated with **immunosenscence**...
9. A method according to any one of the preceding claims wherein the patient has **type 2 diabetes**...
10. A method of ameliorating the **symptoms of diabetes**...
11. A method of treating or preventing the symptoms of **rheumatoid arthritis**...





# Regulatory

- ✓ Heat stable
- ✓ Known mechanisms of action
- ✓ Validated by preclinical and clinical evidence
- ✓ Self-Determined GRAS
- ✓ 100% non-GMO feijoa fruit
- ✓ Dairy free, gluten free, preservative free
- ✓ Comprehensive specifications including microbes and heavy metals
- ✓ Quarterly quality assurance programme including pesticides screen (300+)



# Contact Us

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