사내교육용

Company Researching Healthy Future

BIONUTRIGEN

건강한 미래를 연구하는 기업



INTRODUCTION

Company researching healthy future

(주)바이오뉴트리젠은 한국생명공학연구원, 서울대, 충남대, 공주대, 경북대 등의 과학자들이 중심이 되어 설립된 바이오 벤처기업입니다.

21세기에는 생명공학이 우리주변 전 영역에서 큰 혁명을 일으킬 것으로 예측됩니다. 특히 인간수명은 빠른 속도로 길어져서 80~100세 시대를 맞이 했습니다.

당사는 인류의 건강하고 풍요로운 삶을 위해 우리가 안전하게 섭취할 수 있는 식물성, 식품성 성분의 연구를 통해 몸매 및 체중관리, 지방대사 개선, 혈당대사 개선, 노화억제, 기초체력 증진에 필요한 기술 및 제품을 생산 판매하기 위하여 설립되었으며, 아름다운 몸매 유지, 건강 증진 등에 필요한 중요한 생물소재들을 식용의 야채, 과일, 약초 등에서 연구 개발하는데 성공하여 E.U, 미국, 중국, 러시아, 일본 등 전 세계에서 활발한 성과를 이루고 있습니다.

저희 회사의 모든 임직원들은 모두 힘을 합하여 세계 초일류 기업으로의 성장을 목표로 최선을 다하고 있습니다.

Bionutrigen Co. Ltd is a bio venture company organized by scientists, mainly from Korea Research Institute of Bioscience and Biotechnology, Seoul National University, Chungnam National University, Kongju National University and Kyongbuk National University.

It is expected that biotechnology will produce a great revolution in all fields around us in the 21st century. In particular, we face the era of 80 – 100 years old with a rapidly prolonged life span.

Our company has been established to produce and sell the technologies and products required to maintain body shape and body weight, improve fat metabolism, improve blood sugar metabolism, prevent aging and promote basic physical strength through research on plants and plant ingredients which we can safely take for a healthy and prosperous life for the mankind. We successfully developed important biological materials required to maintain a beautiful body shape and promote health through research on edible vegetables, fruits and herbs. We have actively obtained achievements in many places in the world such as E.U., USA, China, Russia and Japan.

All executives and employees of our company do our best to aim at becoming a world-class company by pulling all together.

대표이사 약력 CEO Biography



대표이사 복 성 해
(Song-Hae Bok, PH.D.)

학 력 Education

1966 서울대학교 농생물학 학사
Bachelor's degree in Agricultural Biology at Seoul National University

1972 미국 MIT공대 대학원 생물화학공학 석사
Master's degree in Biochemical Engineering at the Graduate School of MIT in the USA

1976 미국 펜실바니아 주립대 미생물학 박사
Ph.D. in Microbiology at the Pennsylvania State University in the USA

연구 업적 Research Achievements

무독성 심장순환기 질환 예방치료제 개발(JBB1~15)
Development of non-toxic therapeutic agents to prevent cardiovascular diseases (JBB1~15)

항비만 식품 소재 개발 (Slim&Slim)
Development of anti-obesity food materials (Slim & Slim)

간건강, 간해독 작용 식품 소재 개발 (JBB20)
Development of food materials for liver health and liver detoxification (JBB20)

수상실적 Awards

1997 특허청 특허기술분야 세종대왕상
King Sejong Award in the Patent Technology area at the Korean Intellectual property office

2001 제4회 대한민국 농업과학기술상 산업포장 수상
The 4th Korean agricultural Science and technology Industrial package award

2001 21세기 저명한 과학자 선정
Selected as a distinguished scientist in the 21st Century, 2001

2001 세계 인명사전 The Marquis Who's Who in the World 등재
Listed in The Marquis Who' s Who in the World which is a Dictionary of International Biography

2007 Top 100 scientist 2008 선정
Selected as Top 100 scientists in 2008

2008 제43회 발명의 날 석탑산업훈장 수상
Tin Tower Order of Industrial Service Merit in the 43rd Day of Invention in 2008

2018 한국발명진흥회 실리콘밸리 발명전시회(SVIIF) 금메달
Received Gold medal from Silicon Valley International Invention Festival, 2018

연구논문 및 특허 Research papers and patents

208편의 국내외 논문 · 학술강연
208 domestic & international papers and lectures

235건의 특허출원 · 등록
Registered 235 patent applications

경 력 Career experience

1999 한국생명공학연구원 원장
-02 President, Korea Research Institute Bioscience and Biotechnology

2000 과학기술부 생명공학종합정책 심의위원
-02 Review committee, biotechnology comprehensive policy in Ministry of Science and Technology

2000 보건복지부 보건의료기술정책 심의위원
-02 Review committee, health care technology policy in Ministry of Health and Welfare

2000 산업자원부 산업기술정책 심의위원
-02 Review committee, Industrial technology policy in Ministry industry and Energy

2001 대통령직속 국민경제자문회의 위원
-02 Presidential national Economic Advisory Council member

2002 (주)바이오뉴트리젠 대표이사
-현재 CEO of Bionutrigen Co. Ltd

2004 건양대학교 제약공학과 석좌교수
-06 Endowed-Chair Professor in Department of Pharmaceutics & Biotechnology at Konyang University

2010 대전광역시 식품산업정책분과위원회 위원
-현재 Food Industry Policy Division Committee member in Daejeon metropolitan city

2011 식품의약품안전청 신소재과학전문가 자문위원
-현재 Advisory committee member of new material scientific experts at Ministry of Food and Drug safety

Bionutrigen **Slim&Slim** (RAW MATERIAL)





SLIM&SLIM



GOJIBERRY FATCLEAN

효능 Efficacy

- 비만관리 Healthy Weight
- 체지방 관리 Healthy Body Fat Levels
- 혈중지질 관리 Healthy Lipid Levels
- 중성지방 관리 Healthy Triglyceride Levels
- 아름다운 몸매관리 Beautiful Body Line

응용 Applications

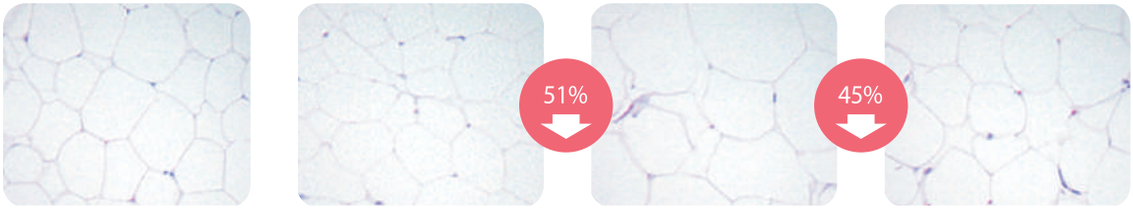
- 건강기능식품 원료 (다이어트)
  Raw materials of health functional foods (diet)
- 각종 Wellbeing 식품 (음료, 차, 주스, 스낵, 양념, 빵, 김치류, 유제품, 피자, 햄버거, 치킨 등)
  Various Wellbeing products (drinks, tea, juice, snacks, condiments, bread, kimchi, dairy products, pizza, burgers, chicken, etc.)

장점 Benefits

- 국내 특허등록 2건/해외 PCT 미국, 유럽 출원
- 전세계 미군부대에 Slim² 다이어트차로 납품 중
- 천연식품 식물 추출물 (부작용 NO)
- 수용성 원료로 각종 응용이 용이
- 동물실험(쥐), 간이 인체/임상 실험 완료
- 농림 기술개발 과제 수행 '성공' 과제물
- 프랑스, 독일에 다이어트용 원료 수출

- Registration of 2 domestic patents / application for international PCT in the US and EU
- Delivery of Slim² diet teas to the US army in the world
- Natural food plant extracts (NO side effects)
- Various applications are made easily with soluble materials
- Animal experiments (rats), a simple human body / completion of clinical trials
- Outcomes of 'success' in a project for agriculture and forestry technology development
- Export of raw materials for diet to France and Germany

쥐의 지방 세포의 크기 Size of the fat cells of rats



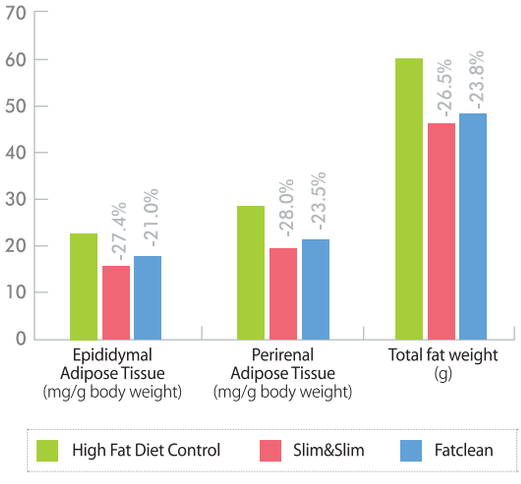
Nomal Control
247.36*μm*

Slim&Slim
232.41*μm*

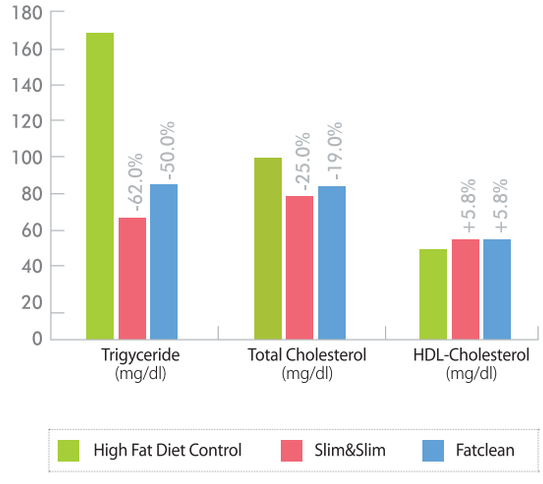
High Fat Control
472.26*μm*

Fatclean
260.99*μm*

쥐의 지방 감소 Reduction of fats in rats



쥐의 혈중 지질 수준 Lipid levels in the blood of rats



Bionutrigen JBB20 (RAW MATERIAL)



JBB20 JBB20 GOLD JBB20 SUPER JBB20 DIAMOND

JBB20은 폴리페놀계 물질 또는 바이오플라노보이드계 물질을 함유하는 식약처에 식품으로 허가되어 있는 식물들의 추출물을 포함하는 혼합 추출물이다.

JBB20 is a mixed extract including plant extracts which contain polyphenols or bioflavonoids and are approved by Ministry of Food and Drug safety as foods.

효능 Efficacy

- 숙취 해소 Anti-hangover
- 피로 회복 Energy & Stamina up
- 간건강 관리 Liver health up

응용 Applications

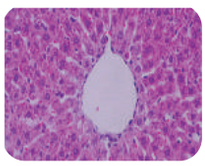
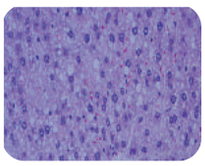
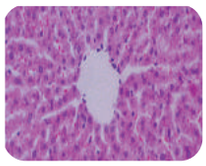
- 각종 건강 음료 및 차 Various healthy drinks and teas
- 해장/안주용 음식 Relief of hangover/Foods for appetizer
- 기능성 식품 원료 Raw materials for functional foods

장점 Benefits

- 천연식품 식물 추출물 (부작용 NO)
- 수용성 원료로 각종 응용이 용이
- 동물실험(쥐), 간이 인체/임상실험 완료
- 중기청 기술혁신연구과제 수행 '성공' 결과물
- 2005 대만국제발명회 '은메달'
- 2005 형가리 발명가 협회 '알콜킬러상' 수상
- 2013 프랑스 임상시험 완료
- 2018 실리콘밸리 발명전시회(SVIIF) 금메달
- 2021 러시아 시베리아 의과대학 임상시험 완료
- 2022 러시아 논문 발행
  (간 기능 장애 관련 치료 연구에서의 유기 화합물 적용)

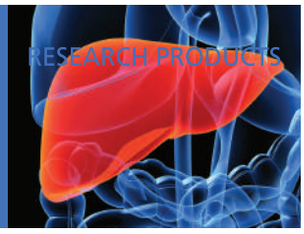
- Natural food plant extracts (NO side effects)
- Various applications are made easily with soluble materials
- Animal experiments (rats), a simple human body/Completion of clinical trials
- Outcomes of 'success' in project for technology innovation research in Small and Medium Business Administration
- 'Silver medal' in the Taivan international Invention exhibition 2005
- 'Alcohol killer award' in hungarian inventors' association 2005 award
- Completion of French clinical trials, 2013 (Controlled, double blind, randomized versus placebo clinical trial of the effect of Han-Hepa(JBB20) on the improvement of the hepatic function)
- 'Gold medal' in Silicon Valley International Invention Festival, 2018
- Completion of Russia Siberia Medical University Hospital clinical trials 2021
- 2022 Publication of thesis in Russia (APPLICATION OF ORGANIC COMPOUNDS IN THERAPEUTIC PRACTICE FOR LIVER FUNCTION DISTURBANCES)

지방간화 억제 Inhibition of fatty liver

정상생활을 한 쥐의 간 Liver of a rat that lives a normal life	술을 2주 동안 섭취한 쥐의 간 Liver of a rat that takes alcohol for 2 weeks	술과 JBB20을 2주 동안 함께 섭취한 쥐의 간 Liver of a rat that takes both alcohol and JBB20 for 2 weeks
 간상태:정상 Nomal Liver	 간상태:지방간 Fatty Liver	 간상태:정상 Nomal Liver

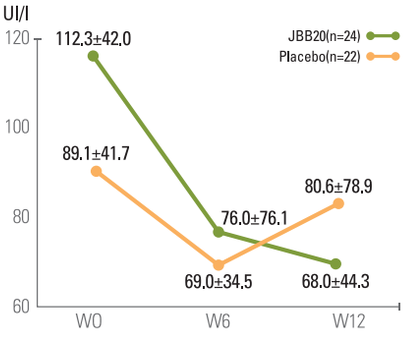
알코올(에탄올)을 15일 동안 투여 후의 간을 해부해본 결과 JBB20을 함께 투여한 쥐의 간은 정상이었고 알코올만 섭취한 쥐의 간은 80%이상 지방간화가 진행된 것을 확인하였다. (술:23도 소주 1병 (사람의 경우)을 2주 동안 섭취)
As the result of dissection of the liver of a rat whict takes alcohol (ethanol) for 15 days, it is found that the liver of a rat that takes alcohol together with JBB20 is normal but the liver of a rat that takes only alcohol progresses to more than 80% of fatty liver.
(It is equal to the case in which one who takes a bottle of Soju at 23 proofs for 2 weeks)

Bionutrigen JBB20 (RAW MATERIAL)



EU 임상 연구

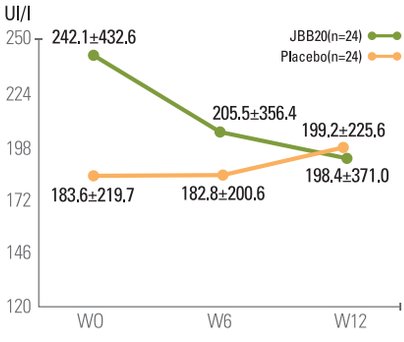
EU Clinical trials / EU



ALAT



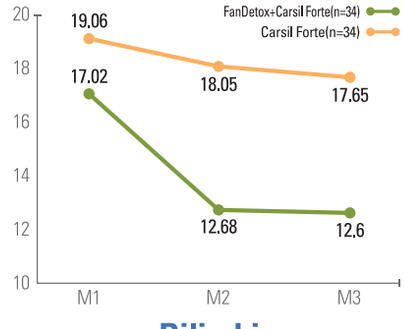
ASAT



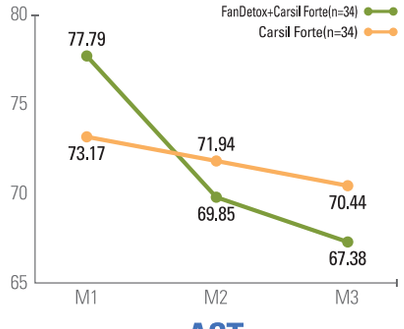
rGTP

러시아 임상연구

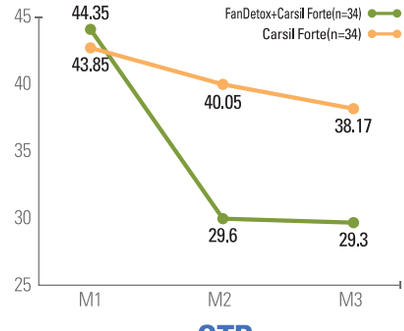
Siberia Medical University Hospital Clinical trials / Russia



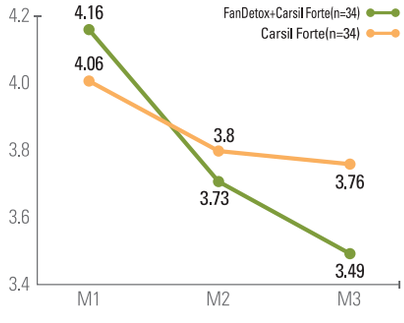
Bilirubin



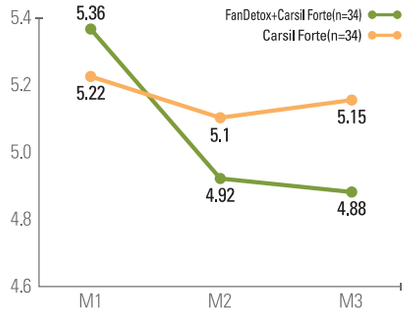
AST
(Asparate aminotransferase)



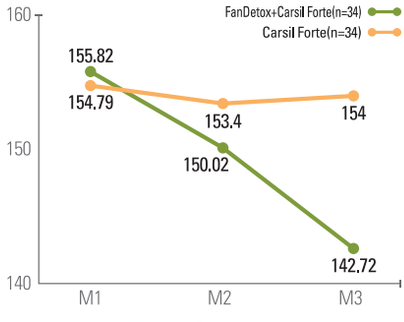
rGTP
(Gamma glutamine transferase)



Atherogenic index



Total Cholesterol



Fatty liver size

a. FanDetox 4.5g x 2 times a day

b. FanDetox was made with JBB20, Bionutrigen's Liver health improving agent

Bionutrigen **Products Information**

1. Liver Health / Anti-Hangover / Energy drink Products

· JBB20시리즈를 주성분으로 하여 개발된 간건강, 숙취해소, 피로회복, 활력 제품군

· Product groups developed for health of liver, solution of hangover, recovery of fatigue and vitalization with JBB20 series as the main ingredient



위하여 Wehayeah
(stick)



Liver Supplement
(stick)



JBB20HEPACLEAN
(stick)



JBB20SUPER
Hepmmune Stick Tea Powder
(stick)



JBB20SUPER
Hepmmune Tablet



Wehayeah
(bottle)



JBB20 Red Ginseng
(bottle)



Nature's Energizer
(bottle)



HANG AWAY
(can)



JBB20SUPER Hepmmune Red GinSeng
(bottle)

2. Diet/Beauty/Meal replacement Products

· Slim&Slim, Gojiberry Fatclean을 활용하여 개발된 다이어트 미용 제품군

· Diet beauty product groups developed by using Slim&Slim, Gojiberry Fatclean



Slim&Slim
(stick)



Slim-Collagen
(stick)



Fatclean meal

3. OEM Products



FanDetox
Russia



Liver Supplement
U.S.A



Slim²
U.S.A

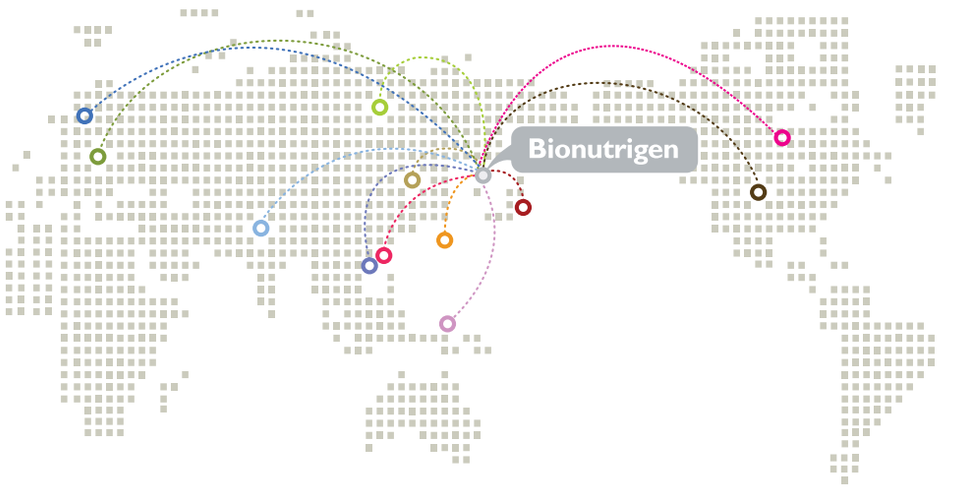


Slim by Slim
Russia

Exporting countries

World's Top Class Company Bionutrigen

Bionutrigen will continue to develop new pharmaceutical materials, and funcional food and beverage grade materials to achieve the goals.



EU Russia China Japan U.S.A Canada
Vietnam India Hong Kong Taiwan Philippines Sweden

#401, 96 Gajeongbuk-ro, Yuseong-gu, Daejeon, Republic of Korea (34111)
대전광역시 유성구 가정북로 96, 대전일자리경제진흥원 401호 (34111)
Tel. +82-42-861-0637~8 Fax. +82-42-861-0639 E-mail. bionutrigen@hanmail.net www.bionutrigen.com

Ver4.

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