

### GREEN BIOTECHNOLOGY

Dr. Björn Lárus Örvar

Executive V.P. CSO and Co-Founder

The first and only company in the world producing portfolio of human growth factors in plants for



# STEM CELL RESEARCH SKINCARE PRODUCTS





## **BIO**EFFECT

## IS0kin∈™



- Human growth factors for stem cell technology and regenerative medicine
  - 25 on market



 "Anti-aging" skin care products with human growth factors



### LEADERS IN PLANT BIOETECHNOLGY



### 2008

The first in Europe to market product using plant biotechnology



### 2010

The first in the world to market consumer product using plant biotechnology



### The COMPANY

- Founded in 2001
- Tech platform development 2001 2008
- Product development started 2007
- 55 employees
- Retail value est. 40 M\$ in 2017
- 38% growth est. for 2016 2017



### BIOEFFECT 2017



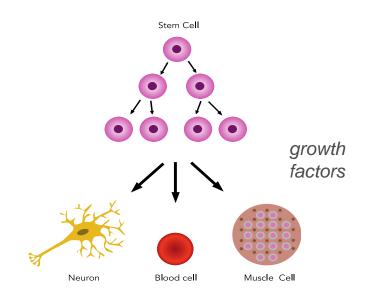


## **GROWTH FACTORS**

### WHAT ARE GROWTH FACTORS?

### GROWTH FACTORS ARE CELLULAR MESSENGERS

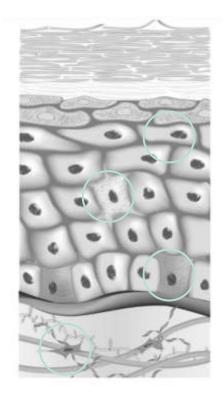
- Control cell differentiation
- Stimulate cell renewal and maintenance of cells
- Important in skin biology
- PROFOUND AFFECT ON AGING



## MORE THAN 300 CELL TYPES!

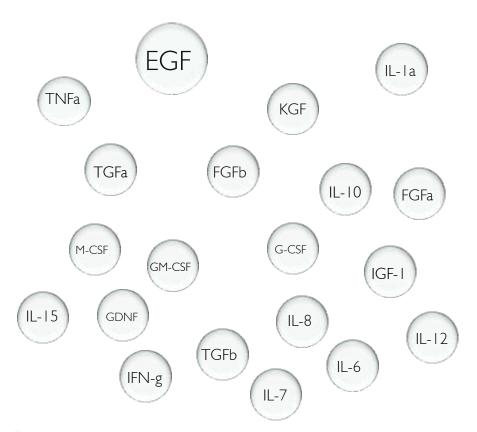


### GROWTH FACTORS IN THE SKIN



Keratinocytes
Melanocytes
Langerhans cells
Fibroblasts







#### CHALLENGES



## Growth factors are expensive!



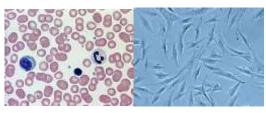


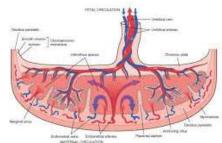
## OUR TECHNOLOGY

### GROWTH FACTORS IN HUMANS - HOW ARE THEY PRODUCED?

- Extraction from human /animal tissue
  - neonatal, placental, urine, blood

- Biotechnology GMO
  - E.coli
  - Yeasts
  - Chinese hamster ovary cells



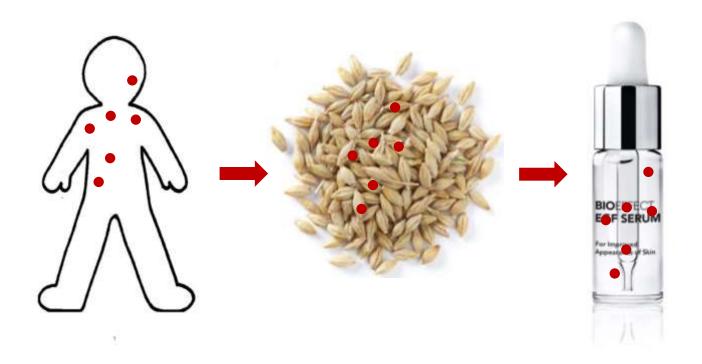












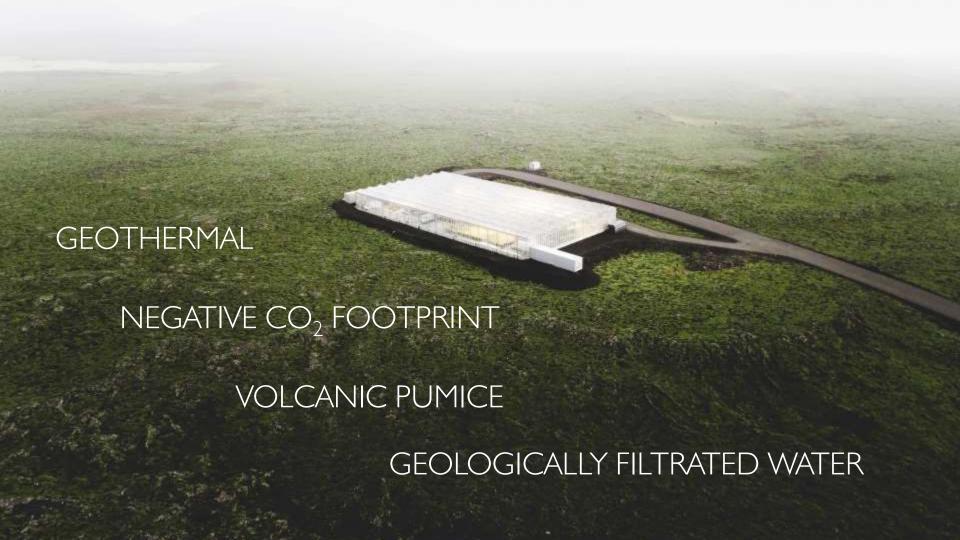












### ONLY SOLD IN PREMIUM DOORS AROUND THE WORLD

RIVE GAUCHE





























High-end perfumeries

Niche/lifestyle stores

Spas and aesthetic clinics

Beauty e-commerce

Travel retail

Selected pharmacies

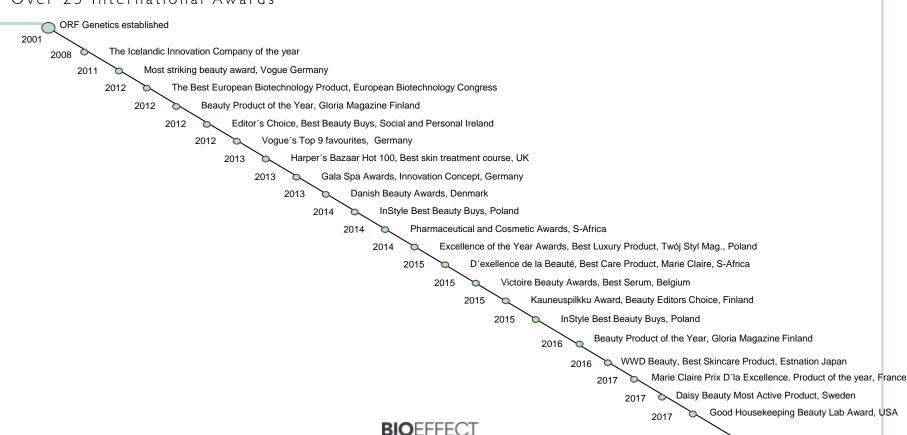
## Le BON MARCHÉ – Sept 2017







### Over 25 International Awards



### Iceland's Best Known Consumer Band

### IN ONLY 6 YEARS - OVER 1500 ARTICLES IN INTERNATIONAL PRESS









































































