Cosmeceutical products are those poised on the gap between cosmetic products that simply cleanse and beautify, and pharmaceuticals that cure and heal. Generally, cosmeceuticals are products sold over-the-counter that provide a health benefit in addition to traditional cosmetic qualities. Healthy growth in the cosmeceuticals market worldwide is primarily attributed to the aging baby boomer generation in the United States and an increase in disposable income in Asia and South America. Technological innovations will continue to drive growth in the market.

The cosmeceuticals market, including skin care, hair care, and sun care products, is highly diversified, with products coming both from major manufacturers and small, local companies around the world. Cosmeceutical products can be purchased from mass market and direct marketing retailers as well as from prestige retailers including increasingly popular “spas.” The cosmeceutical consumer is becoming more sophisticated, demanding exceptional quality from these products, and technological innovations will have to keep up with this demand.

Innovations in cosmeceutical products over the next few years will come primarily in the following areas:

- Proof of efficacy of ingredients, particularly natural extracts, will become more important because consumers have a wide variety of choices and will discontinue use of ineffective products
- Natural products and extracts will continue to replace chemical materials, and plants and fermentation will increasingly replace animals as ingredient sources
- Delivery systems will be more complex and effective, offering triggered and controlled release of actives, and the research and development of nanostructure delivery systems will continue
- Sunscreen actives will be increasingly present in daily wear products and new actives will offer broad-spectrum UV coverage and/or higher sun protection factors
- Regulation of cosmetic and drug products will be harmonized globally, particularly between North America, the European Union, and Japan

Cosmeceutical Trends & Technologies (Third Edition) outlines “state-of-the-art” cosmeceutical technologies and examines niche opportunities from a technological viewpoint. The report is ideal for companies searching for global business opportunities to expand and differentiate their products.

Technology Catalysts International was founded in 1979 to provide consulting services which satisfy the technology transfer and business research needs of industry. Today we specialize in technology transfer, technology assessment, and intellectual property portfolio management. The firm’s head office is located in Falls Church, Virginia, a suburb of Washington, D.C. Our global network includes additional offices in Japan, Korea, India, China, Argentina, United Kingdom, Germany, Italy, and the Czech Republic.

Our research staff is comprised of professionals with backgrounds in a variety of technical disciplines, international marketing, licensing, finance, and business development. They are skilled in providing clients with strategically important competitive information worldwide. The breadth of our experience assures clients of high quality, actionable information and complete coverage on topics of interest.

TCI’s core consulting services are based on continuous monitoring of technological and product development activities on a global basis. The company provides consulting and technology transfer services to leading product developers and manufacturers in North and South America, Europe, and Asia. Our client base consists of small, medium, and large corporations.

For more information on our services and capabilities, please contact your local representative or visit our website at:

www.technology-catalysts.com
Table of Contents

I Introduction

II Executive Summary

III Market
Product Market Segments
Forecast Basis for 2005
Distribution Channel Segments
Geographical Market Segments
Skin Care Products
Hair Care Products
Sun Care Products

IV Regulation
Association of Southeast Asian National (ASEAN)
Australia
Canada
European Union
Japan
United States
Alternative Testing

V Trends in Cosmeceutical Ingredients
Vitamins
  Vitamin A
  Vitamin E
  Vitamin C
Natural Products
  Plant Extracts and Essential Oils
  Coenzyme Q10
  Kinetin
  Flavonoids
  Fatty Acids
Hydroxy Acids
Biological Macromolecules
  Proteins
  Enzymes
  Carbohydrates
  Ceramides
Sunscreens
Skin Lightening Agents
Specialty Chemicals
Formulations
  Skin Care
  Hair Care
  Sun Care
Delivery Systems
  Emulsions
  Polymeric Systems
  Liposomes
  Microparticles
  Nanostructures
  Patches

VI Business Opportunities
Ingredients
Formulations
Delivery Systems
Business Opportunities from the following companies, organizations, and inventors are included in the report.

- Ghisalberti Green Technologies
- NanoBioTec GmbH
- Protective Factors, Inc.
- Provital S.A.
- Pugliese Group
- Rejuna International
- Salvona, LLC
- SCS Skin Care Systems GmbH
- Seoul National University
- Sol-Gel Technologies Ltd.
- Sunlife Cosmetic and Pharmaceutical Corporation
- Swedish Skin Care, Inc.
- Thione International
- Thomas Jefferson University

**Sample Opportunity**

Ghisalberti Green Technologies

**Technology Description**

Researchers have found that 3-hydroxy-4-pyridone derivatives have utility as multi-purpose skin whiteners. The compounds exhibit melanin inhibition at different levels of activity according to their structure and the compounds are uniquely capable of offering effective treatment of persistent spots due to extravasation and traumatic hyperpigmentation. In combination with 3-hydroxy-4-pyridone derivatives, effective compositions also contain exfoliating agents, such as alpha hydroxy acids, additional depigmenting agents, and anti-inflammatory agents.

**Applications**

The technology can be used for ethnic skin bleaching and treatment of melasma, cholasma and hemosiderin spots.

**Technology Offer**

World Publication PCT 01/17497 (filed 8 September 2000)

Preliminary clinical testing has been conducted, with the novel composition achieving complete spot removal via a one-shot, peel-like treatment.

**Competitive Advantage**

The composition is non-toxic, non-irritating, free from hydroquinone and other toxic side-effects, with good activity and an excellent toxicology profile.

Ghisalberti Green Technologies is a small, independent R&D enterprise focused on development of new compounds, materials, technologies, and manufacturing methods for natural and natural-like substances. The company has patented a variety of novel technologies including pigments from plant polyphenols, plant polyphenol applications, biologically-active lipids, and dermocosmetic molecules. They are interested in finding certified manufacturers in the pharmaceutical, nutritional, food, and cosmetic industries to license and commercialize the technologies.

**Company Information**

Carlo Ghisalberti
President
Ghisalberti Green Technologies
Via Piero della Francesca
Milan 20154
Italy

Telephone: (39) 02-33610791
Facsimile: (39) 02-3314190
E-Mail: ghisolfa@iol.it

**Contact**

Agrotechnological Research Institute
ATO BV
Ajinomoto Co., Inc.
Alnis BioSciences Inc.
AlphaMed Pharmaceuticals
Arizona Natural Resources
Barnet Products Corporation
BioActives
BioArtificial Gel Technologies, Inc.
Biophysica, Inc.
Biotec Pharmacon Asa
Capsulution NanoScience AG
CBB Developpoment
Dija Zeist bv
Enhanced Derm Technologies
Esparma GmbH
Estrin Consulting Group, Inc.
Ghisalberti Green Technologies
Hamilton Laboratories
IntegriDerm, Inc.
Ivrea, Inc.
I.B.R. Israeli Biotechnology Research
IPR - Institute for Pharmaceutical Research AG
Joao Carlos Mota
Khodor Ammar
Laboratory Skin Care, Inc.
Larreacorp, Ltd.
Lavipharm Laboratories
Leslie Robert M.D., Ph.D.
MIKA Pharma GmbH

Ultra Cosmetics
Univera Pharmaceuticals, Inc.
Universita di Ferrara
Universita di Roma “La Sapienza”
University of Bologna
University of Geneva
University of Mumbai
University of North Carolina at Chapel Hill
University of Pennsylvania
U.S. Department of Agriculture - ARS
Van Drunen Farms and FutureCeuticals
Vitacos Corporation
Young Pharmaceuticals, Inc.
Zen-Bio, Inc.
PURCHASE AGREEMENT

Technology & Business Review ...............................................................$4,950.00 (one copy)
Additional copies............................................................................................$300.00 each

Note: All prices are U.S. dollars

We agree to limit the circulation of any of these reports to employees of our corporation or subsidiaries and joint ventures in which our corporation holds at least a 50 percent interest.

Upon receipt of this signed Purchase Agreement, Technology Catalysts International will invoice our corporation for the purchase amount, payable upon request.

Name: _____________________________________________________________________________________________
Title: _______________________________________________________________________________________________
Company: __________________________________________________________________________________________
Address: ___________________________________________________________________________________________
____________________________________________________________________________________________________
Telephone: ________________________________________ Facsimile: ________________________________________
E-mail _____________________________________________________________________________________________

Signature: __________________________________________________________ Date: __________________________

☐ Check enclosed, made payable to Technology Catalysts International
☐ Bill me at the above address
☐ Please send brochure describing the services of Technology Catalysts International

Return to:
Sandra Erb
Manager
Consumer Care
Technology Catalysts International
605 Park Avenue, Falls Church, VA 22046 U.S.A.
Direct Phone: (703) 531-0247
Telephone: (703) 237-9600
Facsimile: (703) 237-0042
E-mail: serb@technology-catalysts.com