

SCIENCE OF SEA SALT

First Edition

Edited By:

Eddie Kolos
Inventor, Formulator and Entrepreneur,
Jensen Beach, Florida
USA

Science of Sea Salt

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Editor: Eddie Kolos
Editor Content Lead: Rajiv Saini

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PREFACE

The mounting drift of marine natural products has been recently boosted by the spiraling inclination to recognize the immense health benefits of different biological activities. As new medical discoveries enhance biotechnology innovations, significant attention is focused on the ocean's natural resources, because the marine ecological setting is a unique storehouse of novel bioactive natural compounds.

Historically, natural products have been used since ancient times and in folklore for the treatment of many diseases and illnesses. Natural sea salt is produced by the process of evaporation of salt water bodies. The methodology involved in procuring sea salt also helps retain its natural state and therapeutic qualities. Sea salt contains 82 trace minerals which have been scientifically proven to be essential to the maintenance of optimal health, like magnesium, calcium, sulphur, bromide, potassium, zinc, and sodium. A great deal of scientific attention in terms of biomedical science, research studies, and clinical observation resulted in new discoveries about sea salt's enormous potential and its role in therapeutic science.

In the current book, the editor and authors have called attention to the science of sea salt. With key sections of the book covering basic human biology, ocean frontiers, sea salt discovery, sea salt in medicine, including oral biology, sea salt in food science, body modifications and innovations, including new inventions in the field of sea salt product developments. This book focuses on basic learning and clinical guidelines in the ongoing effort to further collect new science and development. The information provided in this book will be extraordinarily helpful in understanding the potential and resourcefulness of the ocean and sea salt in particular.

(Rajiv Saini)
*Editor Content Lead,
Science of Sea Salt*



Eddie Kolos

Eddie Kolos was one of the early believers in the science of sea salt. His unwavering dedication to researching ocean life and the importance of natural elements in the ocean earned him a patent for the reconstitution of ocean water in a purified sea salt solution to be used in or on the skin in the United States and other countries around the world. He began his entrepreneurial journey two decades ago in 2001, successfully laying the groundwork for his three companies (H2Ocean, Ocean Aid, and Vet-Aid) in Stuart, Florida. By thinking outside the box and seeking the natural healing power of the ocean, he developed innovative sea-salt based skin and oral care products which are now well established in the industry.

His work and products are well known in the medical field, leading to professional recognition such as the American Podiatric Medical Association Seal of Acceptance, The 2012 Governor's Innovation Awards "Top 50 Florida Companies to Watch", and the 2013 AT&T Innovation Award at the Environmental Stewardship Awards. Eddie is also at the forefront of ocean preservation with his creation of Project Blue Green which is entirely focused on restoring and preserving the ocean to help sustain the blue and green Earth as a whole. While he is working to protecting the world's oceans, he is also dedicated to the future development of sea salt-based products and innovations in the field of saving lives.



RAJIV SAINI

Rajiv Saini, holds multiple academic and research positions. He is a visiting professor at the University of Bari Aldo Moro, Bari, Italy; a visiting scientist at the Tecnologica Research Institute in Crotona, Italy; and the Stony Brook School of Dental Medicine in New York, USA. Rajiv is also involved in building science-driven scientific strategy and management consultancy for industry. The central motivating theme of all his previous research has focused on studying the host's response to periodontal infection, which triggers a complex cascade of inflammatory-immune sequential events that make periodontitis an established risk factor for many systemic diseases, such as diabetes, cancer, and cardiovascular events. Rajiv's research interests include: Prevention Deficit Human Disease Mapping, Clinical Trial & Research Data Mining, Pro-Active Intervention & Prevention, Oral Systemic Integration, Human Microbiome, Artificial Intelligence in Health Care, Clinical Research Quality Index Analysis, Systemic Health Balance, and Nutritional Bio Complex. His work in this field is well accepted and has yielded 170 peer-reviewed publications in scientific journals of repute. He has already published four books (*Dental Horizons: Essentials of Oral Health*, *Hospital Infection Control: Clinical Guidelines*, *Fundamentals in Clinical Trial and Research*, and *Dental Plaque: A Biofilm*) and authored three book chapters. Rajiv also serves in various editorial positions in scientific journals and on the editorial boards of over 25 scientific journals. He has attended several scientific conferences, presented his research work and awarded with various International, National and Institutional awards. He has completed numerous research studies and is currently involved in multiple investigational research activities. He is frequently invited as a guest speaker at international and national academic forums.

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LIST OF CONTRIBUTORS

(Listed as per section-chapter sequence)

SECTION I

Pamela Mandela Idenya
Senior Lecturer,
Department of Human Anatomy,
University of Nairobi
Kenya

Marian Rosemary Huett
Professor,
Physiology Department,
King's College, London
United Kingdom

Mario Riera Romo
Leslie Dan Faculty of Pharmacy,
University of Toronto,
Ontario, Canada.
Pharmacology Department,
Institute of Marine Sciences,
Havana
Cuba

SECTION II

Eddie Kolos
Inventor, Formulator and Entrepreneur,
Jensen Beach, Florida
USA

Jude Iloabuchi Obianyoy
Associate Professor,
Department of Civil Engineering,
College of Engineering and Engineering Technology,
Michael Okpara University of Agriculture Umudike,
Umuahia, Abia State
Nigeria

Tarek M. El-Geziry
Associate Research Professor,
Laboratory of Physical Oceanography,
Division of Marine Environment,

National Institute of Oceanography and Fisheries (NIOF),
Alexandria
Egypt

Noir Primadona Purba
Associate Professor,
Department of Marine Science,
Faculty of Fisheries and Marine Science,
Universitas Padjadjaran
Indonesia

Donat-P. Häder
Professor Emeritus,
Department of Biology,
Friedrich-Alexander University Erlangen Nürnberg,
Germany

Jorge Garcia Hernandez
Tokyo Institute of Technology,
Shinagawa-Ku, Tokyo
Japan

Nalanda Roy
Associate Professor, Asian Politics and International Studies
Department of Political Science and International Studies,
Coordinator: Asian Studies Minor Program
Inclusive Excellence Faculty Fellow
Georgia Southern University, Georgia, USA
Visiting Scholar, Center for the Study of Genocide and Human Rights,
Rutgers University, New Brunswick, New Jersey, USA.
Board of Directors (GSIA), City of Savannah, Georgia, USA
Chair, Asian Committee, City of Savannah, Georgia
USA

SECTION III

Cristina Maria Carapeto Pereira
Associate Professor,
Department of Science and Technology,
Universidade Aberta, Lisbon
Portugal

Huan Zhou
Professor,
College of Chemical Engineering and Materials Science,
Tianjin University of Science and Technology,
Tianjin
China

Marco Tulio Mendonca Diniz
Professor,
Department of Geography
Federal University of Rio Grande do Norte,
Brazil

Abhilash Sundarasami
Department of Biological Sciences,
Birla Institute of Technology and Science Pilani,
K K Birla Goa Campus,
Zuarinagar
India

Sri Surekha Radhakrishnan
Centre for Molecular Medicine & Therapeutics,
PSG Institute of Medical Sciences and Research,
Coimbatore
India

Judith M Braganca
Department of Biological Sciences,
Birla Institute of Technology and Science Pilani,
K K Birla Goa Campus,
Zuarinagar
India

Kabilan Mani
Centre for Molecular Medicine & Therapeutics,
PSG Institute of Medical Sciences and Research,
Coimbatore
India

Luis A Cisternas
Professor
Chemical and Mineral Process Engineering,
Universidad de Antofagasta,
Antofagasta
Chile

Andy Dehart
Vice President of Animal Husbandry & Marine Conservation,
Phillip and Patricia Frost Museum of Science,
Miami, Florida
USA

SECTION IV

David J Newman
Retired Chief, Natural Products Branch, NIH/NCI,
Wayne, Pennsylvania
USA

D. Nirmani Ann Wijewickrama Samarakoon
Lecturer and Head,
Faculty of Health Sciences,
Department of Biomedical Sciences,
Kaastu International University
Sri Lanka

D.M. Jayani Dilhani Kumari Dunukara
Demonstrator,
Faculty of Health Sciences,
Department of Biomedical Sciences,
Kaastu International University
Sri Lanka

Manadadige Medhavi Meththika Rathnapraba Fernando
Research Assistant,
Higher Education Institute Society – Linkage Cell,
Kaastu International University
Sri Lanka

Malitha Aravinda Siriwardhana
Senior Lecturer
Department of Pharmacy and Pharmaceutical Sciences
Faculty of Allied Health Sciences
University of Sri Jayewardenepura
Sri Lanka

Deepthi Inoka Uluwaduge
Professor,
Department of Basic Sciences,
Faculty of Allied Health Sciences,
University of Sri Jayewardenepura
Sri Lanka
Professor and Head,
Department of Biochemistry and Clinical Chemistry,
Faculty of Medicine,
University of Moratuwa,
Sri Lanka

Eddie Kolos
Inventor, Formulator and Entrepreneur,
Jensen Beach, Florida
USA

Marilee A Benore
Professor,
Department of Natural Sciences,
University of Michigan Dearborn,
Dearborn, Michigan
USA

Craig J Donahue
Associate Professor,
Department of Natural Sciences,
University of Michigan Dearborn,
Dearborn, Michigan
USA

Undurti N Das
CEO and CSO,
UND Life Sciences,
Battle ground, Washington,
USA
Professor and Director,
Department of Medicine and BioScience Research Centre,
GVP Medical College and Hospital,
Visakhapatnam
India

OI Lemko
Professor/Chief Researcher
Government Institution “The Scientific-practical Medical Centre “Rehabilitation”
Health Ministry of Ukraine”, Uzhhorod National University,
Uzhgorod
Ukraine

IS Lemko
Senior Scientific Associate/Director
Government Institution “The Scientific-practical Medical Centre “Rehabilitation”
Health Ministry of Ukraine”,
Uzhgorod
Ukraine

MO Haysak
Senior Scientific Associate/Scientific secretary
Government Institution “The Scientific-practical Medical Centre “Rehabilitation”
Health Ministry of Ukraine”,
Uzhgorod
Ukraine

Amira Ragab El Barky
Scientist,
Biochemistry Division,
Department of Chemistry, Faculty of Science,
Tanta University
Egypt

Tarek Mostafa Mohamed
Professor,
Biochemistry Division,
Department of Chemistry, Faculty of Science,
Tanta University
Egypt

Viroj Wiwanitkit
Visiting Professor,
Hainan Medical University,
Haikou, China
Adjunct Professor,
Joseph Ayobabalola University,
Ikeji-Arakeji, Nigeria
Visiting Professor,
Faculty of Medicine,
University of Nis,
Serbia
Honorary Professor,
Dr DY Patil University,
Pune
India

SECTION V

Dhanushka Leuke Bandara
Senior Lecturer,
Department of Oral Medicine & Periodontology,
Faculty of Dental Sciences,
University of Peradeniya
Sri Lanka

Tharanga Lakmali Nandasena
Professor in Dental Anatomy,
Head/Division of Dental Anatomy,
Department of Basic Sciences,
Faculty of Dental Sciences,
University of Peradeniya,
Sri Lanka

Nilsun Bagis
Associate Professor,
Department of Periodontology,
Faculty of Dentistry,
Ankara University,
Ankara
Turkey

Melike Camgoz
Instructor's Clinic (VIP),
Faculty of Dentistry,
Gazi University,
Ankara
Turkey

Nguyen Phan The Huy
Lecturer,
Department of Oral Pathology,
Faculty of Odonto-Stomatology,
University of Medicine and Pharmacy, Ho Chi Minh City
Vietnam

Pham Anh Vu Thuy
Associate Professor,
Division of Odonto-Stomatology,
School of Medicine,
Vietnam National University, Ho Chi Minh City
Vietnam

Rajiv Saini
Visiting Professor,
University of Bari, Aldo Moro
Italy

Habil. Melinda Madléna
Full Professor,
Head of the Department of Oral Biology and Experimental Dental Research,
Vice Dean for Science,
University of Szeged,
Faculty of Dentistry
Hungary

Kenko Jian-hong YU
Professor and Dean of Orthodontics,
China Medical University
Taiwan

Nesma El-Amier
Assistant Lecturer of Prosthodontics,
Faculty of Dentistry, Mansoura University,
Egypt
HAAD Prosthodontist
United Arab Emirates

Sugandha Rajiv Saini
Invited Lecturer,
University of Bari, Aldo Moro
Italy

Jayanta Sarma
Lead Consultant Microbiologist,
Mid-Yorkshire Hospitals NHS Trust,
Wakefield, West Yorkshire
England

Norhayati Binti Luddin
Associate Professor,
Restorative Dentistry Unit (Prosthodontics)
School of Dental Sciences,
Universiti Sains Malaysia,
Kubang Kerian, Kelantan
Malaysia

Mohammad Khursheed Alam
Professor,
Orthodontic Division,
Department of Preventive Dentistry,
College of Dentistry, Jouf University
Kingdom of Saudi Arabia

Cecilia Young
Independent Researcher & Practicing Dentist
Hong Kong

Regina TC. Tandelilin
Professor,
Department of Oral Biology,
Faculty of Dentistry,
Universitas Gadjah Mada
Indonesia

Kyaw Thiha
Professor and Chair,
Department of Periodontology,
University of Dental Medicine, Mandalay
Myanmar

Monica Dewi Ranggaini
Lecturer
Faculty of Dentistry, Universitas Trisakti,
Jakarta
Indonesia

Nikolaos Andreas Chrysanthakopoulos
Department of Pathological Anatomy,
Medical School,
University of Athens
Greece

Efka Zabokova-Bilbilova
Senior Scientific Associate,
Department of Pediatric and Preventive Dentistry,
Faculty of Dentistry, University “Ss Cyril and Methodius”- Skopje
Republic of Macedonia

Xiaojuan Zeng
Professor,
Dental Public Health & Endodontology,
Stomatological Hospital,
Guangxi Medical University,
Guangxi
China

Norina Consuela Forna
Professor,
Division of Dental Medicine,
Grigore T. Popa University of Medicine and Pharmacy
Romania

SECTION VI

Marybeth Mitcham
Association Resource Educator,
Nutrition and Healthy Living,
Cornell Cooperative Extension, Warren County
Warrensburg, New York
USA

Daniela Assimiti
California Prep International School,
Saraburi,
Thailand

Ohood Alharbi
Owner/Nutrigenomics Specialist,
Personalize My Diet
Canada

SECTION VII

Horiyoshi III/Nakano Yoshihito
Ambassador of Japanese Irezumi Tattoo Artist/Painter/Historian,
Yokohama Tattoo Museum, Kangawa Ken
Japan

Kate Hellenbrand
America's Tattoo Godmother
Professional Tattoo Artist/Historian,
Shanghai Kate's Tattoos, Austin, Texas
USA

Shin-Hee Kim
Professor,
Department of LINC + Project,
Konkuk University glocal Campus
Chungcheo-do
Korea

Gurvinder P Thami
Professor and Head,
Department of Dermatology, Venereology & Leprology,
Government Medical College and Hospital,
Chandigarh
India

Ankita Tuknayat
Senior Resident,
Department of Dermatology, Venereology & Leprology,
Government Medical College and Hospital,
Chandigarh
India

Deano Cook
Professional Tattoo Artist/Painter/Underwater Photographer,
Sink or Swim Studio, Marietta, Georgia
USA

SECTION VIII

Rajiv Saini
Visiting Professor,
University of Bari, Aldo Moro
Italy

Suneet Sable
Founder, Director & CEO,
Brainiac IP Solutions,
Brainiac Global Consulting Pvt. Ltd.,
Pune, Maharashtra
India

Eddie Kolos
Inventor, Formulator and Entrepreneur,
Jensen Beach, Florida
USA

SECTION IX

Thauan Santos
Professor,
Brazilian Naval War College (EGN),
Rio de Janeiro
Brazil

Abdullahel Bari
Chairman,
Ananda Shipyard & Slipways Ltd,
Bangladesh.
President, Association of Export Oriented
Shipbuilding Industries of
Bangladesh

Tariqul Islam
Executive Director,
Ananda Shipyard & Slipways Ltd
Bangladesh

