



**Functional CELLULAR techniques
and lessons from Covid-19**

- **Scientifically proven** technology validated at **Yale and other leading institutions** (The only test in this category that has demonstrated High Correlation with the Gold Standard - double blind oral challenge)
- A **true functional biological response** measurement
- **Broad menu** of substances (500 test items)
- **Free** test interpretation from licensed professionals & **compliance tools** available

A different way for testing adverse reactions to foods and chemicals and micronutrient deficiencies: Cellular techniques and lessons from COVID-19

Roger Deutsch, speaker

Abstract: COVID-19 has brought the realization that immune balance is critical to survival. There exists a tightly regulated complex of mechanisms allowing the immune system to counter infection, repair tissue damage resulting from collateral immune injury, and then shutting off once the infectious agent is neutralized. However, this ideal is not always achieved.

This presentation will explore the interplay of various immune components under normal conditions as well as when under siege in its attempts to achieve the dual aims of defense and homeostasis. The presentation will explain the use of lab-based diagnostics to determine with accuracy the role of foods and nutrients in maintaining immune balance and health.

Learning objectives:

- The interplay between the innate and the specific immune system
- Innate immune training versus specific immune memory
- The newly discovered role of NETs (Neutrophil Extracellular Traps) in relation to autoimmunity, aging and COVID fatality
- Food and immune activation
- The advantages and disadvantages of cellular versus serum tests for adverse reactions to foods
- Micronutrients and immune function/status
- The advantages and disadvantages of cellular versus serum testing for micronutrient deficiency

Bio Roger Deutsch

Roger Deutsch is the CEO and Founder of Cell Science Systems and PreviMedica Group, LLC, a nutrition telehealth consulting firm. He is also the CEO of Cell Science Systems, GmbH, Potsdam, Germany.

Roger is one of the modern-day pioneers of food and chemical sensitivity testing with involvement in this field since 1986. He has been responsible for the development of the Alcat Test. He is the co-author of Your Hidden Food Allergies are Making You Fat, has written numerous articles and given many lectures on the topic of food sensitivity, inflammation and aging on all continents.

Roger began his professional career as world class international oil broker, co-founding the largest and most successful firm in the world. However, he left this lucrative career in order to pursue studies in allergy and natural healing because he himself was a life-long sufferer of allergies. He was attracted to the potential of the Alcat Test when introduced to it in 1986. He then switched careers and further developed and validated the technology through collaborations with leading research institutions like Georgetown University, University of Leipzig, Sheba Hospital University Clinic, Yale School of Medicine, London University, and others.

He studied Psychology at CW Post College, Natural Sciences at SUNY Purchase and Traditional Chinese Medicine at the Int'l. College of Oriental Medicine (UK). He enjoys reading history and science, ocean swimming, and travel. Roger also became a certified teacher of the Transcendental Meditation technique in 1972 and is a major donor to charities that provide free education and free hospital care to poor people in rural India.

Company profile Cell Science Systems

Functional Laboratory Testing aimed at personalized nutrition and prevention of chronic inflammation & autoimmune disease

Cell Science Systems (CSS) develops and performs laboratory testing in immunology, cell biology, and molecular diagnostics. CSS operates a CLIA certified laboratory and FDA registered medical device manufacturing establishment. R. Deutsch is a pioneer of food sensitivity testing with involvement in this field since 1986. CSS also operates a lab in Potsdam, Germany, providing testing in the EU and Middle East

Vertically integrated technology

CSS manufactures the instrumentation and reagents required in the Alcat Test and the micronutrient assays.

- TÜV compliant, product / facility safety monitored
- CE marked reagents and instruments for the international market

Awards and grants

Alcat technology has been the recipient of numerous grants by the

- Research grants from the European Union and State of Brandenburg
- "Company of the Year Award" for Food Intolerance Testing, North America, in 2016 by Frost & Sullivan, CSS - the only year the award was granted in that category.
- A research grant from Glaxo Smith Kline Consumer Healthcare

Ongoing research

The Alcat technology is supported by scientific studies from universities such as Yale School of Medicine, University of Northern Illinois, Baylor Medical College, University of Camarino, University of Pavia and others

New research is currently underway at

- Georgetown Univ. and Univ. of Leipzig that link the innate immune cell reactions to dietary and environmental factors identified by the Alcat Test with autoimmune disorders.
- Sheba Hospital University Clinic Tel HaShomer, Israel

Click here to contact CSS: <https://cellsciencesystems.com/providers/testing-offer/>

Cell Science Systems (800) 872-5228 | www.cellsciencesystems.com