

THE SIGNAL EXISTS. THE BODY CANNOT HEAR IT **NORMALLY.**

In Laron syndrome, the growth hormone receptor does not function properly. The signal is sent, but the message is not received. As a result, IGF-1 levels remain extremely low, reshaping growth, metabolism, and cell behaviour from the very beginning.



1. SIGNAL SENT

The pituitary gland releases growth hormone (GH) into the bloodstream.



PITUITARY
GLAND

GROWTH
HORMONE
(GH)

2. SIGNAL BLOCKED

Because of a defective growth hormone receptor, the signal cannot be received or translated.



DEFECTIVE
GH RECEPTOR

INSENSITIVITY
TO GROWTH
HORMONE

3. SIGNAL NOT RECEIVED

The message does not get through. IGF-1 production remains extremely low, affecting growth and many cellular functions.



IGF-1
VERY LOW



A RARE GENETIC CONDITION

Caused by mutations in the growth hormone receptor gene.



EXTREMELY LOW IGF-1 LEVELS

Circulating IGF-1 is typically less than 10% of normal.



SIGNIFICANT IMPACT

Results in short stature and profound metabolic differences.



LIFELONG BIOLOGICAL EFFECTS

Alters growth, metabolism, immunity, and cellular repair.

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CANCER IS GROWTH THAT ESCAPED GOVERNANCE.

Normal cells grow, divide, and die in an orderly way. Cancer cells break those rules—recruiting signals, evading protection, and multiplying without restraint. It is not a foreign invader. It is a system hijacked.

Understanding the environment that enables this is the key to prevention.

NORMAL TISSUE

Cells grow when needed.
Signals are balanced.
Damaged cells are removed.

CANCER TISSUE

Signals are distorted.
Growth is uncontrolled.
Survival mechanisms are exploited.

THE HALLMARKS OF CANCER ENABLERS

 GROWTH SIGNALS
Amplified

 PROLIFERATION
Unchecked

 IMMUNE EVASION
Activated

 ENERGY ACQUISITION
Increased

 INVASION
Enabled

 SURVIVAL
Enhanced

CANCER INTELLIGENCE: SYSTEMS, NOT ACCIDENTS.



A NETWORK HACK,
NOT A SINGLE MUTATION

Cancer requires many
advantages to grow.



THE MICROENVIRONMENT
MATTERS

The body's internal terrain
can either suppress or
support malignant cells.



PREVENTION IS
SYSTEMS DESIGN

Altering the biological
environment may make
cancer less likely to thrive.



THE QUESTION
WE MUST ANSWER

What conditions does
cancer need from us
to survive?

WTM EDITORIAL
INTELLIGENCE

Explaining the systems.
Informing better decisions.
Advancing human health.

IN COLLABORATION WITH



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LOWER RISK IS NOT IMMUNITY.

Laron syndrome is associated with a markedly **low** incidence of cancer—but cancer **can** and **does** occur. Science shows **reduced risk**, not invulnerability.

“Extraordinary biology does not mean cancer cannot happen. It means we have more to learn.”

REDUCED RISK
THE EVIDENCE SHOWS

LOW
CANCER
INCIDENCE

POPULATION WITH LARON SYNDROME
(LOW IGF-1 SIGNALING)

NOT IMMUNITY
THE EVIDENCE CONFIRMS

CANCER
CAN OCCUR

RARE CANCER CASES
HAVE BEEN DOCUMENTED

THE SCIENTIFIC RECORD

ECUADOR COHORT STUDIES

- ✓ Significantly low cancer incidence vs. relatives
- ✓ Multiple decades of observation
- ✓ Robust epidemiological data



The Cancer Twins'
A story of science, not myth.

DOCUMENTED CASES

- Ovarian tumor reported
- Colon cancer reported
- Other malignancies documented

**ZERO RISK
IS A MYTH.**



ACCURATE SCIENCE.
BETTER DECISIONS. REAL PROGRESS.



CAUSATION ≠ CORRELATION
Observations reveal patterns, not guarantees.



COMPLEX BIOLOGY
Many pathways influence cancer risk and protection.



HUMILITY IN SCIENCE
Outliers teach us questions, not shortcuts.



PREVENTION, NOT PROMISES
The goal is to understand and reduce risk.



RESEARCH CONTINUES
More data. More time. Better answers.



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THE EXCEPTION CAN REVEAL THE RULE.

Rare biological exceptions act as nature's experiments—exposing mechanisms that shape all human biology. One anomaly can illuminate the entire map of human health.

“Outliers are not noise. They are nature's footnotes to the rules.”

ONE RARE BIOLOGY.
MANY INSIGHTS FOR ALL.

RARE RESILIENCE
Unusual resistance to infections.

LONGEVITY OUTLIERS
Exceptional lifespans.

UNUSUAL METABOLIC PROFILES
Altered cholesterol, glucose, and inflammation.

LARON SYNDROME
Low IGF-1 signalling
Unusually low cancer and diabetes incidence.

ALTERED PAIN EXPERIENCE
Different pain perception.

EXCEPTIONAL DRUG RESPONSE
Unusual reactions that reveal new targets.

GENETIC PROTECTION
Natural variants that reduce disease risk.

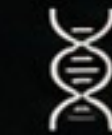
WHY IT MATTERS



UNCOVERS NEW MECHANISMS
Reveals biological pathways that may protect or predispose.



GUIDES PRECISION MEDICINE
Helps design therapies based on mechanism, not guesswork.



INFORMS PREVENTION STRATEGIES
Identifies conditions that make disease less likely to take hold.



BENEFITS EVERYONE
Insights from the rare become tools for the rest of humanity.

THE EXCEPTION IS NOT
THE OPPOSITE OF THE RULE.
IT IS THE KEY TO FINDING IT.



OUTLIERS DRIVE DISCOVERY
Many breakthroughs begin with someone who is different.



GENETICS IS NOT DESTINY
The same pathways can be harnessed without causing the rare condition.



MECHANISM OVER HYPE
Real insight comes from understanding how and why, not from miracle claims.



BIOLOGY IS CONTEXT
Genes act within networks of environment, behaviour, and ageing.



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WHAT DOES CANCER NEED FROM US TO SURVIVE?

Cancer does not act alone.
It requires conditions,
resources, and opportunities
within the human body.
Change the environment,
change the outcome.

“ The future of prevention
may be about making
the body a less hospitable
environment for cancer
to succeed. ”

A SUPPORTIVE ENVIRONMENT

Balance. Regulation. Defence.
Cells behave as they should.

AN ENABLING ENVIRONMENT

Imbalance. Inflammation. Opportunity.
Cancer cells gain the advantage.

THE BODY IS
NOT NEUTRAL.
IT IS EITHER
HOSPITABLE
OR RESISTANT.

LARON SYNDROME OFFERS CLUES.

Low IGF-1 signalling may alter
the terrain cancer depends on.

THE CONDITIONS CANCER TYPICALLY EXPLOITS



GENETIC DAMAGE
Mutations provide the initial spark.



GROWTH SIGNALS
Signals that push cells to divide.



NUTRIENT ACCESS
Fuel for energy and proliferation.



IMMUNE EVASION
Escaping detection and destruction.



INFLAMMATION
Chronic inflammation creates risk.



MICROENVIRONMENT
Tissue context enables expansion.



TIME
More time increases opportunity.



THE GOAL:
UNDERSTAND THE SYSTEM.
REDUCE THE OPPORTUNITY.
REWIRE THE OUTCOME.



RESEARCHING THE TERRAIN
Focus on the environment
that shapes cancer,
not just the mutation.



COMPLEX, NOT SIMPLE
No single lever explains
cancer. Multiple systems
interact.



HUMAN BIOLOGY IS PLASTIC
Our biology can be influenced
—through genetics, lifestyle,
and environment.



PREVENTION IS ARCHITECTURE
Designing biological conditions
that make disease less likely
to take hold.



KNOWLEDGE IS POWER
Understanding what cancer needs
is the first step to taking it away.

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WHAT IF GROWING LESS REVEALED HOW CANCER GROWS?

A rare growth disorder.

A population with exceptionally low cancer rates.

A biological paradox that could reshape
the future of prevention.



IGF-1

GH RECEPTOR
(INSENSITIVITY)



In rare biology,
we may find the rules
that govern all of us.



A RARE CONDITION
Laron syndrome alters
growth signalling
from birth.



A UNIQUE COHORT
Decades of research in
Ecuador reveal striking
health paradoxes.



A BIGGER QUESTION
What happens when the
body receives less of the
signals cancer depends on?

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FROM INSIGHT TO ACTION. FROM ACTION TO PREVENTION.

Understanding cancer is not enough. We must translate knowledge into action—building systems that detect earlier, protect better, and treat smarter. The future will be won by those who act on insight.

“The real breakthrough will not be a single cure. It will be a system that makes cures possible for everyone.”



SCIENCE GIVES US THE MAP.
SYSTEMS HELP US GET THERE.

A SYSTEMS APPROACH TO LOWER CANCER RISK.



DATA TO DECISIONS
Evidence must inform policy, practice, and personal choices.



PERSONAL + POPULATION
Solutions must work for the individual and the collective.



ENVIRONMENT MATTERS
Clean air, clean food, and safe environments reduce risk.



BEHAVIOUR IS BIOLOGY
Sleep, movement, connection, and stress management change outcomes.



INNOVATION WITH ETHICS
Powerful tools require responsible use and human-centred design.



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