



*MyShroom*

[www.mycoldiscovery.com](http://www.mycoldiscovery.com)

[www.quanthealth.org](http://www.quanthealth.org)

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# OUTLINE



**A Renewed Medicinal Mushroom Industry -  
We are setting the standards – growing in  
completely sterile environments using  
sterile substrates with proprietary vegetable strains.**

**Created from hybrid strains with documented  
scientific observations that show the benefits to  
mammalian chemistry. Commercialization started in  
2010**

- ❖ **History, Vision & Mission**
- ❖ **Benefits: Clinical Use & Science**
- ❖ **Commercialization & Competition**

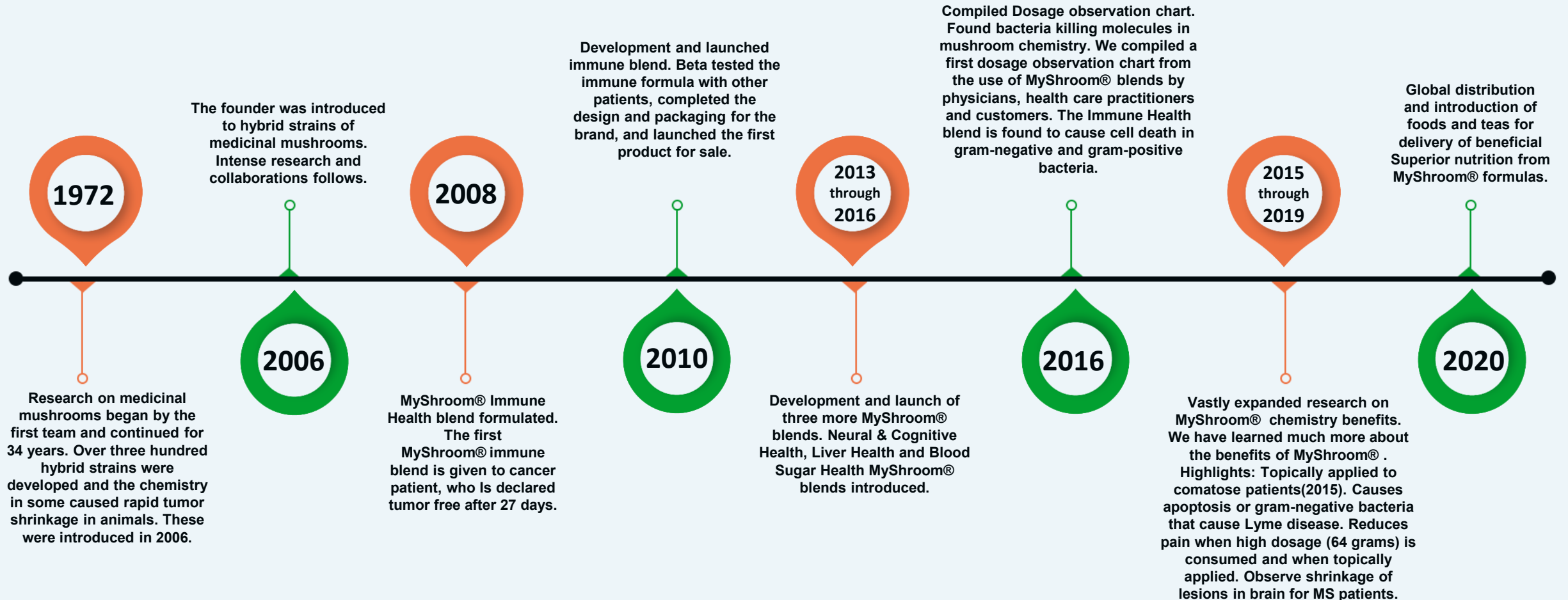
# OUR BEGINNING

- **Our proprietary hybrid strains are not available from anyone else**
- **Use proprietary organic substrates**
- **Proprietary blends**
- **Grown, processed and packaged in completely sterile clean rooms**
- **Independent lab quality assessments**
- ***Glioblastoma & lung cancer both disappeared in one man in 27 days***

***Accelerates cell communication (redox) and more***



# The Evolution of MyShroom®



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# VISION



We envision a world of thriving, healthy people who have knowledge of and accessibility to high-quality hybrid mushroom blends for nutrition and health.

# MISSION

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**"We believe life is a miracle — a living intelligence that science may never fully decode. At Mycol Discoveries, we honor this mystery by working with nature, not against it. Our hybrid medicinal mushroom formulations are rooted in the understanding that real healing happens when the body is nourished by the complete chemistry these living mushroom organisms create. Instead of isolating a few known molecules, we deliver the full spectrum of synergistic compounds from these hybrid mushroom strains that nature intended — supporting the body's innate ability to regenerate, protect, and thrive."**

**Science will never fully understand 100% of how the immune system works."**

The immune system is extraordinarily complex, dynamic, and deeply integrated with every part of the body — from the nervous system to the gut microbiome. While scientific progress continues to uncover more of its mechanisms, the vast interconnectivity, individual variability, and responsiveness to countless environmental and internal factors make it impossible to map it in complete detail. Like many systems in nature, it may always contain unknowns and emergent behaviors beyond full prediction or control.

# OUR LIMITED KNOWLEDGE

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## 1. Limits of Current Biomedical Knowledge of Human Cellular Chemistry

Despite major advances in molecular biology, genomics, and drug development, humanity still understands only a small fraction of the total biochemical activity occurring in living cells. A landmark analysis published in *Science* estimated that **less than 2% of human protein–protein interactions are experimentally mapped** (Stumpf et al., 2008). Similarly, a 2020 review in *Cell* concluded that although tens of thousands of metabolites likely exist in human tissues, **only a small minority (~1–5%) have been structurally characterized or functionally understood** (Wishart, 2020).

Human cells perform **billions of molecular reactions per second**, many within networks that are highly nonlinear and not yet measurable. Systems biology research repeatedly emphasizes that the biochemical system is too large, too interconnected, and insufficiently mapped to predict the **full effects of exogenous synthetic chemicals on living cells** (Kitano, 2002; Barabási, 2011).

### Conclusion:

Our scientific understanding of the human biochemical network remains incomplete—on the order of **2–5%** of total molecular interactions.

# OUR LIMITED KNOWLEDGE

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## 2. Implications for the Use of Synthetic Chemicals in Human Health

Pharmaceuticals can be life-saving, but they are developed within the constraints of our limited molecular knowledge. Even FDA-approved drugs typically interact with **300–600 unintended off-target proteins** (“polypharmacology”), many of which are unknown during development (Peters, 2013; Lounkine et al., 2012). Adverse drug reactions (ADRs) are the **4th leading cause of death** in the U.S., resulting in over 100,000 deaths annually (Lazarou et al., *JAMA*, 1998; updated CDC estimates). Most ADRs occur **on-target or off-target effects that were not predicted**, precisely because the molecular networks are incompletely understood.

### **Thus, no scientist or physician can fully determine:**

- how a synthetic chemical interacts with the thousands of active biochemical pathways within cells
- how it affects metabolic networks, microbiome interactions, or immune signaling
- how it influences redox states, mitochondrial dynamics, or genomic expression

### **Conclusion:**

Predicting systemic effects of pharmaceuticals is inherently limited because **the underlying system is only sparsely mapped.**

# OUR LIMITED KNOWLEDGE

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**3. Whole Foods and Natural Organisms Contain Vastly More Chemistry Than Modern Science Has Catalogued** Humans—and all living organisms—evolved from the food and water systems of Earth. Whole foods, including mushrooms, plants, herbs, and natural compounds, contain **tens of thousands of bioactive molecules**, often functioning synergistically.

According to the *USDA Phytochemical Database*, most plants contain **over 10,000 distinct chemical compounds**, of which only a fraction is characterized. Mushrooms may contain even more diverse arrays of polysaccharides, glycoproteins, terpenoids, phenolics, alkaloids, sterols, and previously unknown compounds (Chang & Wasser, 2017).

Nutritional biochemistry studies (Gladyshev, 2022) show that: less than **10%** of the molecular complexity of whole foods has been chemically characterized many natural compounds act through **multi-target, network-modulating** mechanisms, unlike single-target pharmaceuticals food-based molecules modulate immune and cellular pathways far more broadly than expected

## **Conclusion:**

Whole foods contain molecular ecosystems that science has barely begun to map, yet these foods sustained the evolution and health of all species on Earth.

# OUR LIMITED KNOWLEDGE

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## 4. Evolutionary Mismatch: Humans Are Biochemically Optimized for Natural Foods, Not Synthetic Chemicals

Evolutionary biology shows that human physiology is adapted to:

- natural nutrients
- complex polysaccharides
- minerals
- organic acids
- diverse phytochemicals
- microbiome-compatible compounds

—because these were the only available inputs for millions of years.

Synthetic chemicals, created only in the past 100 years, **did not shape human evolution**, and therefore:

the body does not have pre-programmed pathways to metabolize them safely

synthetic molecules often require liver detoxification, producing reactive intermediates

they can disrupt unknown biochemical networks

they may interfere with immune regulation or mitochondrial function

(Evans & Levin, 2011; Nicholson et al., 2012).

### Conclusion:

Human biology is fundamentally aligned with the chemistry of nature—not synthetic laboratory substitutes.



## MEDICINAL MUSHROOMS

AN INDUSTRY WHERE WE ARE THE ONLY  
ONES THAT ARE SETTING THE STANDARDS  
AND TO IMPROVE THE INDUSTRY

- “The functional/nutraceutical mushroom industry has expected sales of \$34.3B by 2024, up from \$20B in 2018.” (*Mordor Intelligence, 2019*)
- But all of it is contaminated to some extent because they are all grown in non sterile environments on non sterile substrates.
- All nutraceutical mushrooms are not grown in sterile environments and are contaminated. Non have reproduced what was studied and produced in university laboratories that wrote numerous papers on the positive outcomes with mammalian chemistry.

Food service mushrooms should be steamed or cooked to kill the yeast that can cause candida proliferation.

It has been published by Tokoyo University that most cancers in the human body are caused by the proliferation of candida and various parasites.

# COMMERCIAL PACKAGING

- Pouches of powder:
  - 1.3 pound/590 gram
  - 10.4 ounce/295 gram
  - 6.9 ounce/196 gram
- Suppository (2 gram)
- 2 ounce chocolate bar



# The Myshroom products are blends made from the use of hybrid strains developed from these mushroom species:

- *Ganoderma lucidum* (Reishi)
- *Hericium erinaceous* (Lion's Mane)
- *Antrodia camphorata* (Antrodia)
- *Agaricus muscarius, californicus* (Agaricus Blazie)
- *Codrycep sinensis, unilateralis, bassiana* (Cordycep)
- *Grifola frondosa* (Maitake)
- *Trametes versicolor* (Turkey Tail)
- *Pleruotus ostreatus* (Oyster)



# IMMUNE MUSHROOM FORMULA

REPRESENTS ABOUT 98% OF ALL SALES



- 8 Proprietary hybrid strains from 5 mushroom species
- University-derived from over fifty years of experiments and tests of new strains of medicinal mushroom selected based on experimental results
- Grown in pharma-standard sterile clean-room facilities using special organic substrates. All personnel do not breath the air that the mushrooms are grown in.
- NOT grown on soil, wood, dead plants or waste products. Grown on organic vegetables.

# Observations: Myshroom® provides a more cost-effective solution and a higher Quality of Life

## OBSERVATIONS OF THE COSTS AND QUALITY OF LIFE BENEFITS

DISEASE/HEALTH CHALLENGE, A SAMPLING OF DISEASES	CURRENT MEDICINES /FOOD ANNUAL COST (USD)	MYSHROOM® NUTRITION ANNUAL COST *(USD)	% QUALITY OF LIFE WITH CURRENT MEDICINES & FOODS	% QUALITY OF LIFE USING MYSHROOM® NUTRITION (WITH OR WITHOUT MEDICINES)
CANCERS	\$25,000 - \$150,000 ++	\$5,000 - \$18,000	<25%	>90%
MULTIPLE SCLEROSIS	\$40,000 - \$100,000	\$5,000 - \$18,000	<50%	>90%
ALZHEIMERS/DEMENTIA	\$25,000 - \$150,000	\$5,000 - \$18,000	<5%	>90%
NEUROLOGICAL DISEASES	\$25,000 - \$150,000	\$5,000 - \$18,000	<5%	>90%
KIDNEY	>\$5,000	\$6,000 - \$15,000	<50%	>90%
LIVER	>\$5,000	\$1,200 - \$5,000	<50%	>90%
DIABETES	>\$14,000 - \$28,000	\$1,200 - \$18,000	<75%	>90%
BONE & MUSCLE	>\$5,000	\$3,600 - \$6,000	<75%	>90%
HEART MUSCLE AND VALVES	>\$15,000	\$4,800 - \$7,200	<80%	>90%
DENTAL ROOT INFECTION	>\$800	<\$680	<90%	>90%
PAIN	>\$25,000 - \$100,000	\$5,000 - \$18,000	<50%	>90%
<b>THE TOTAL WITHDRAW TIME FOR ADDICTS CAN TAKE ONE TO TWO MONTHS</b>				
<b>TO GET OFF ADDICTIONS AND PAIN MEDS, IT TAKES ONE TO TWO MONTHS</b>	THE TOTAL COSTS OF DRUGS IS \$20-\$45K PER MONTHS FOR THE FIRST TWO MONTH AND THEN \$2K+/- SUBSEQUENTLY FOR EACH MONTH	\$1.2 - \$3.6 CAN STOP CONSUMING WITH FOOD IN 2 TO 3 MONTHS AND NO CONTINUOUS USE IS NEEDED	<80%	>95%
LYME, OTHER GRAM NEGATIVE DISEASES AND AUTOIMMUNE DISEASES	>\$12,000	\$3,000 - \$28,000	<5%	>90%
SEPSIS-LIFE THREATENING INFECTION	>\$8,000	\$1,200 - \$4,800	<30%	>90%
DETOX-REDUCE THE AMOUNT OF CHELATION, INFUSIONS AND NAD INFUSIONS BY AS MUCH AS 50% OR MORE	>\$3,000	\$1,000 - \$2,400		>95%

This table shows that Myshroom® is significantly and indeed substantially, more cost-effective than other popular treatments. The huge savings and the high success rates make a compelling case for MyShroom®, medicinal mushroom blends, to be adopted at least as an adjunctive protocol.

The humble Mushroom is the newest Superfood.

\* USA and Europe

Myshroom® A FOOD THAT PROVIDES EXCELLENT NUTRITION PROVIDED BY NATURE. THIS IS NOT A CURE FOR ANYTHING. IT IS A FOOD THAT PROVIDES EXCELLENT NUTRITION SO THE BODY CAN HEAL ITSELF IN MANY CASES. THESE FOODS DO NOT DIAGNOSE OR TREAT A DISEASE.

# ACADEMIC COLLABORATION

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- Collaborated with other highly experienced mushroom research teams in Asia, US and EU, beginning in 1971
- >800 scientific publications from the universities that developed unique hybrid mushroom strains
- No encumbering patents
- No LOI with a universities
- History @ [www.mycoldiscovery.com](http://www.mycoldiscovery.com)

# MISSION & OBJECTIVES

Commercialized in 2010  
Research started in 1960s

1

Increase capacity  
to provide more to  
save lives,  
improve health  
and reduce  
malnutrition and  
famine

2

Educate  
healthcare  
professionals  
and the public  
on healthful  
benefits and  
uses



# BENEFITS

CLINICAL USE AND SCIENCE

[www.quanthealth.org](http://www.quanthealth.org)

# Summary of the Benefits of MyShroom® Medicinal Mushroom formulas



*MyShroom*®

**Highly Nutritious**

- Over 4,000 beneficial chemicals including all essential amino acids, transition metals, enzymes, and proteins
- The chemistry supports the strengthening of the nervous system
- Exceeds the beneficial chemistry and nutrition of any other food
- Remarkable food for famine

**Strengthens Immune System**

- Increases number of T cells
- Contains proteins, has all the essential amino acids that are essential for T cell function
- Increases red blood cells oxygen utilization
- Modulates the immune system (over and under activity)
- Supports the bodies immune system to overcomes great adversity

**Modulates Immune System**

- Mitigates over activity
- Augments under activity
- Results in balancing the hormones
- Supports cell communication

**Services the Brain, Liver, Blood and Body**

- Penetrates the blood-brain barrier
- Strains create and secrete an array of antiviral, antifungal, antiparasitic and natural antibiotic compounds
- Breakdowns the membrane of gram negative and some gram positive bacteria
- Supports the increased production of ATP: patients become more energetic
- Presents sulfur containing antioxidants ergothioneine and glutathione

# BENEFITS



- Over 4,000 beneficial chemicals including all essential amino acids, transition metals, enzymes and proteins
- Exceeds the beneficial chemistry and nutrition of any other food on earth
- Strengthens the immune system (T-cells)
- Modulation/regulation of the immune system (mitigate over-activity, augment under-activity).
- Penetrates the blood brain barrier

# BENEFITS (2)

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- Mushroom chemistry supports cell communication
- Strains create and secrete an array of antiviral, antibacterial, antifungal, and antiparasitic compounds
- Sulfur-containing antioxidants ergothioneine and glutathione
- Supports the increased production of ATP: patients more energetic
- Remarkable food for famine



# BIOLOGICAL RESPONSE MODIFIER

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- Our Medicinal mushrooms cause no harm & place no additional stress on the body
- Help the body to adapt to various environmental and biological stresses
- Non-specific actions, supporting:
  - Nervous system
  - Endocrine system
  - Immune system
  - Regulatory functions
- Dosage for severe illness: 32 grams a day or more.



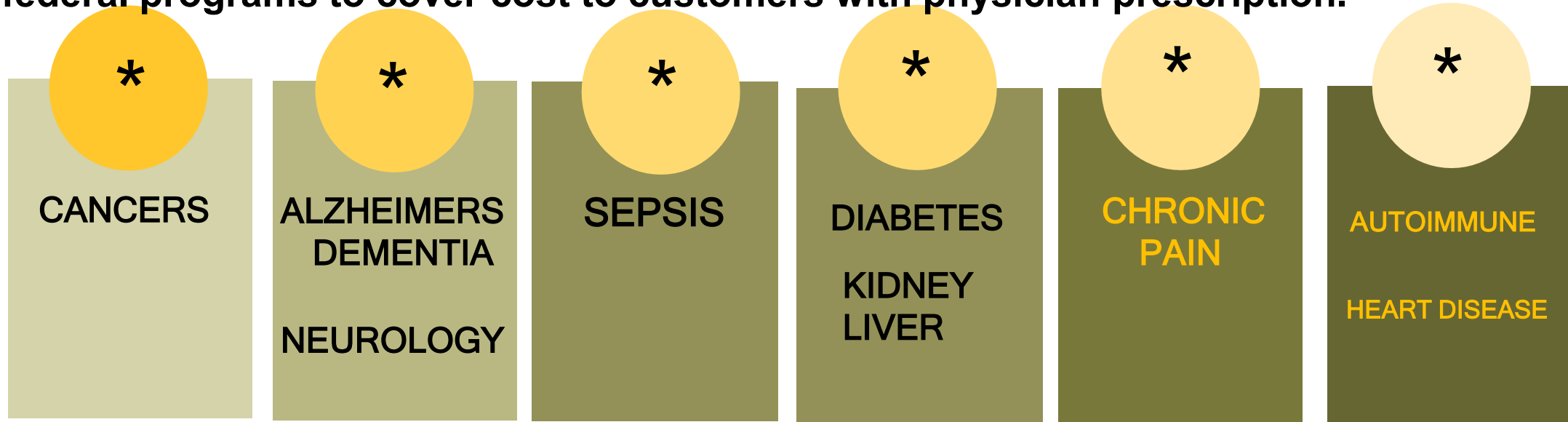
# HOW SAFE ARE OUR MUSHROOMS?

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- Our medicinal mushroom strains apparently produce no harmful side effects, grown in controlled sterile environment
- Absence of chronic & acute toxicity (animals & humans)
- No detrimental effects on DNA; no mutations.
- Pregnancy (animals) - not detrimental to fetal development
- No lethal dose observed (LD50)
- People with penicillin allergy appear to tolerate our mushroom blends and hundreds with this allergy have overcome their disease
- Free of common allergens: gluten, soy, sugar, dairy, glyphosate, tree nuts.
- Mushrooms will not affect conventional therapies, and many times do improve their actions with no side effects

# CREATING THE BEST STANDARDS FOR AN INDUSTRY TO ADDRESS GLOBAL DISEASE

Studies, experiments and anecdotal evidence justify large clinical trials with these diseases; we will also perform trials in other diseases. There is enough evidence from use by health care around the world that it is now fully accepted. The insurance industry in the USA wants phase 1 clinical trials to provide proof so they will provide reimbursement when used with a specific disease. Some medicinal foods can be reimbursed with physician's prescriptions. In process of securing full insurance and federal programs to cover cost to customers with physician prescription.



## MYSHROOM MEDICINAL MUSHROOMS: SUPPORT HUMAN CHEMISTRY TO FIGHT AGAINST CANCER AND PATHOGENS

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- Benefits both innate and adaptive immune systems
- Supports cell health and the ability show an increase in redox molecules
- Observations - Strengthens and balances the immune system in 5-35 days
- Fast tumor die off without Herxheimer reaction
- It looks like the uncloaking tumors: witness sensitivity or heat at site by 15 days (no pain at site)
- Supports the body's immune system so it can now see, sick, deformed, and cancer cells or lesions

# OTHER OBSERVATIONS

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- **MOOD DISORDERS**: 3-4 weeks. Anxiety lessened, sleep better, calmer; caregiver sees change before patients do
- **LYME DISEASE**: 4 weeks. Energy bump, activity returns, sleep better, pain reduced
- **PARKINSON'S**: Cognition improves in 1 week; mobilization, no longer in bed; daily improvements
- **ALZHEIMERS AND DEMENTIA**: Improvement and overcome completely in less than 60 days.
- **MS**: Start in wheelchair and return to normal with no disease by 8 months
- **STROKE**: Faster recovery
- **Type 1 AND II DIABETES**: All are different; some stop insulin, others reduce insulin
- **AUTISM**: 2 months; even tough cases stabilized & returned to school
- **PTSD in VIETNAM VETS**: Most now able to function; clarity, energy, appetite, quality of life improved; excrete parasites
- **KIDNEY DISEASES**: Improvement, reducing dialysis, regrowth of cells

# GENERAL OBSERVATIONS

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- DOSAGE: larger dose leads to faster improvement; max dose 32 grams/day (4 tablespoons) or more
- Skin & hair: other people comment on radiance
- Aphrodisiac effects?
- More energy, exercise more, gain weight, positive attitude, can work longer
- Life extension? People with terminal disease live years v months
- Patients have seen improve every week, so are motivated to continue the consumption of it



# GRAM NEGATIVE AND SOME GRAM POSITIVE BACTERIAS

These fungi produce natural compounds with antibacterial properties that can target both Gram-negative and some Gram-positive bacteria. However, observations showed with serious conditions like sepsis, MRSA, or infections resistant to conventional antibiotics adding had success when adding immune health formula to the diet.

In the largest-ever study of Medicare in the USA sepsis data, the increased rate of beneficiaries hospitalized with sepsis is nearly doubled the increased rate of enrollment in Medicare. The names of the bacteria are: Escherichia coli (E. coli) Klebsiella species, Pseudomonas aeruginosa, Enterobacter species, Acinetobacter baumannii, and Proteus species.

## KEY TAKEAWAYS

- New research estimates that the 2019 cost of sepsis care for inpatient admissions and SNF admissions was more than \$62 billion.
- The 6-month mortality rate among fee-for-service Medicare beneficiaries with an inpatient hospital admission was about 60% for septic shock, which is the most severe form of sepsis.
- Prevention and early detection are key public health approaches to addressing sepsis.
- The largest sepsis study every conducted with Medicare data found a 40% increase in the rate of Medicare beneficiaries hospitalized with the deadly infection from 2012 to 2018.
- Sepsis is diagnosed in at least 1.7 million adults annually in the United States, according to the Centers for Disease Control and Prevention. About 270,000 Americans die from sepsis every year, and 1 in 3 patients who die in hospitals are diagnosed with sepsis, the CDC says.

The new study was conducted by researchers from the U.S. Department of Health and Human Services. The journal of Critical Care Medicine has published the research in three articles:

- ["Sepsis Among Medicare Beneficiaries: 1. The Burdens of Sepsis, 2012-2018"](#)
- ["Sepsis Among Medicare Beneficiaries: 2. The Trajectories of Sepsis, 2012-2018"](#)
- ["Sepsis Among Medicare Beneficiaries: 3. The Methods, Models, and Forecasts of Sepsis, 2012-2018"](#)

"We were astonished by the study's results. To save lives in public health emergencies, we must solve sepsis. The findings of this study have implications not only for patient care, particularly after patients are discharged, but also for investments by industry, non-government organizations, and government agencies," Rick Bright, PhD, a study co-author, DHHS deputy assistant secretary for preparedness and response, and director of the Biomedical Advanced Research and Development Authority, said in a prepared statement.

# A NEW MUSHROOM INDUSTRY

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- A food as medicine
- Supported by academic science
- Significant clinical experience
- Used as adjunctive protocol
- Augmentation of physiology
- Education of these is essential

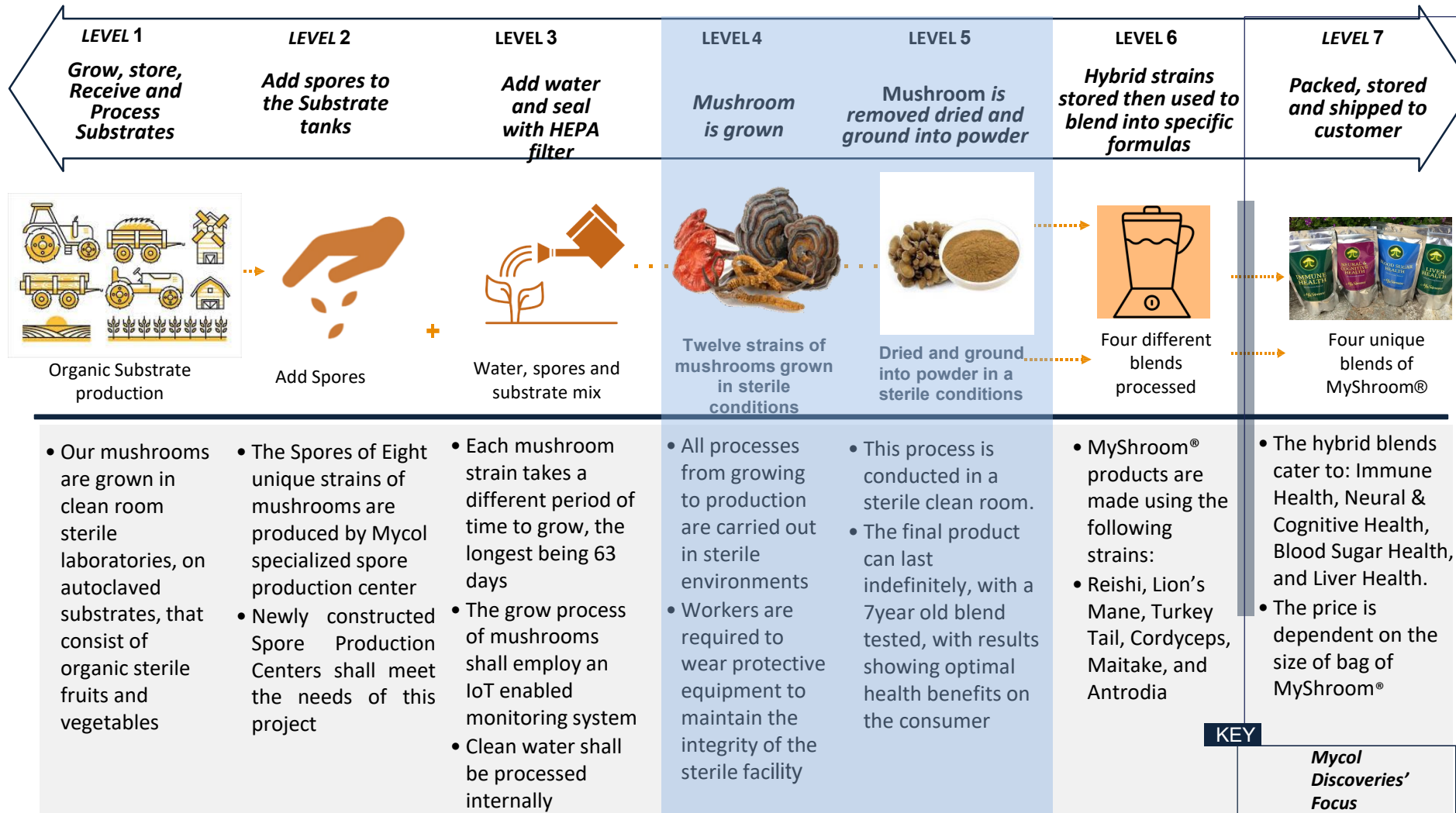


WE HAVE NO REAL COMPETITION  
We are creating a new market

# MyShroom® GROW PROCESS

*Mycol Discoveries in the medium term will build MyShroom® grow and production facilities across the United States and will expand abroad in the medium to long term.*

*.....delivering nutrition and enabling life*



# FDA Registered - Mycol Discoveries & MyShroom®

- Mycol Discoveries, LLC (Mycol) registered by the FDA, FDA Registration No.16595257896 and UFI (DUN) No.107857417.
- All Mycol grow and production facilities shall be FDA registered



# MUSHROOMS

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- Archeological evidence indicates that the use of fungi by humans began at least 6,000 years ago in China, South America, Africa and North America
- 1,789 EDIBLE species have been identified in China
- 798 MEDICINAL fungi are reported from China alone
- China had a 1,400-year history of the cultivation of fungi for food and used as their medicine



# MUSHROOM STANDARDS?

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- 25,000 lbs mushrooms produced in US, 400,000 lbs imported from *Asia (2018, Mushroom Council)*
- All involved parties recognize need for growing standards
- Mycol Discoveries is the lead in setting medicinal mushroom standards
- We want to lift the entire industry so that health claims can be made and respected

# WHAT SETS US APART?

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- 100% of other mushrooms are contaminated
- We use only proprietary hybrid strains
- Only proprietary organic substrates
- Sterile clean room grows
- Scientific validation
- We mass produce what scientists studied in labs
- Clinical efficacy (proof of concept)



RESULT: outstanding results rarely achieved with other mushrooms

*We are a business that is making a  
difference in the lives of people  
and on the health of the planet.*

*Orders: 888-217-3025*

*619-403-1485*

*267-637-4253*

**THANK YOU !**



*MyShroom*