The normal functioning of stem cells requires a nourished environment within the tissue – the stem cell niche – as an indispensable element. The extracellular matrix (ECM) and the growth-regulating proteins within the ECM as well as microbiome-made symbiotic proteins contribute to this niche. Restoring inner ecosystem biodiversity and sustainability allows the rich genetic diversity of the microbiome to make a goldmine of symbiotic nutrients that empower cellular reprogramming. Stimulus-triggered acquisition of pluripotency (STAP) without the need for nuclear transfer or the introduction of transcription factors has recently been demonstrated by scientists.\(^1\)

Observing the infallible wisdom in nature, scientists observed how plant cells can become pluripotent stem cells when nutrient levels or other environmental factors are altered.\(^2\) And Shinya Yamanaka of Kyoto University, who won the Nobel prize in Physiology or Medicine in 2012, demonstrated that it is possible to force the overexpression of proteins called transcription factors in differentiated cells to turn back the clock and make cells behave like embryonic stem cells.\(^3\)

These findings have the potential to sidestep the ethical objections to the use of embryos and the limitations of other methodologies. Nourishment offers cheaper, quicker, and potentially better ways to augment stem cell regeneration. In nature, somatic cells latently possess a dynamic plasticity – the ability to become pluripotent cells – when they are exposed to stimuli or polarized nutrient formats not normally in their environment. In other words, these findings raise the possibility that proteins in quantum formats act as regulatory modules and may be the key that unlocks static or toxic epigenetic states, leading to a global change in epigenetic regulation toward stem cell regeneration.

As I have explained in my earlier publications, the bioclock activity of genes are “switched on and off by proteins that are assembled in molecular sequences via quantic events.”\(^4\) In the past, I have provided a model for nourishing the niches of stem cells via efferent-afferent and microbiome modification.\(^5-8\) It is well known that ECM nourishment can sequester and modulate stem cell niches along with symbiotic protein peptide formats to modulate stem cell niches and that afferent neurons can accomplish some astounding feats of regeneration and neurogenesis.\(^5-9,12\) A default in ECM modulation occurs when microbial cells functioning as nutrient factories are depleted or when afferent neurons are desensitized by nonpolar lipids, denatured proteins, and the ionic stressors that are common in most water purification methods.\(^6,13,14\)

In order to activate deeper capacities for healing via the stem cell niche, we have to focus on cell polarity and its effect on microflora composition, loops, and processes such as intestinal adhesion and translocation.

Symbiotic nourishment research by Bengmark supports my earlier symbiotic nutrient research on the importance of biomolecular nutrient and cell polarity formats that are critical to adequately nourish stem cell niches, the gut habitat, and afferent regenerative functions.\(^5,18-20\) A huge part of restoring the stem cell niche has to do with restoring the active phase of motility or oscillatory motion in the direction of the original embryonic migration. In this regard, polarized sulfolipids are indispensable, as they calibrate microflora, empower the liver's sulfation pathway to erase gut inflammation, and transform the gut lumen into a habitat that favors persistent commensalism and symbiosis.\(^21-27\) It took me over four decades of empirical research to understand how to recolonize the gut and restore the gut habitat in patients with a past history of taking antibiotics or natural anti-infective remedies. Ideally, clinicians need to stop obsessing on killing microbes and start restoring the gut ecosystem status that nourishes the stem cell niche.\(^5,8,15,18\)

Nature integrates all ecosystem cycles and is the final arbiter of truth and unquestionable authority on cell polarity, stem cell niches, and the gut ecosystem cycle determinants that can help us reach a superorganism potential. When in doubt about a medical practice or dietary supplement, do we constantly cross-check what we know against the way things are found in nature so that we may gain the kind of empirical wisdom that truly benefits our sick patients?

In summary, stem cells can turn into many different types of cells, and research demonstrates that they have a niche.\(^15,12,28\) The ultimate way to control their differentiation is to control and nourish their niche.\(^28\) In turn, these niches keep the stem cells fed and nourished similar to the way that queen bees make drones.
Notes

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**EMBRIOCY & MICROBIOME SUPERORGANISM HEALING WORKSHOP**

Dr. Paul Yanick, President of THE AMERICAN ACADEMY OF QUANTUM MEDICINE (AAQM) is holding a "hands on" workshop on how to assess and optimize inner physician embryonic wisdom and healing. Learn how to STOP creating bandages that cover over the real causes of illness and START:

- Restoring cell polarity, symbiosis, commensalism and gut barrier function (polarized hepatocytes are guardians of cellular energy that calibrate and maximize microflora colonization, cell nourishment, energy metabolism, INNATE healing and detoxification).
- Restoring wholeness via revitalized Water to unify the operational complexity and infallible wisdom of inner physician-microbiome superorganism healing.
- Restoring microflora biodiversity & sustainability after any past antibiotics via quorum sensing—a process that enhances microbione production of hundreds of thousands of precious regenerative nutrients, anti-pathogens, anti-toxins, anti-inflammatory, & that nourishes the stem cell niche!

**WHEN:** Sept 5th, Friday – 8 am to 2 pm **WHERE:** THE RIVERIA IN LAS VEGAS @ 33rd annual ANMA CONVENTION

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