By Leaps and Bounds

What’s happening in medicine today can only be described as miraculous!

Information technologies and ‘instant communication’ capabilities have enabled sharing and processing of vast amounts of information.
Our bodies ‘know’ what to do

Amazing as artificial intelligence and computers may be, our bodies are the most complex and finely tuned creations of all.

Billions of bits of information are being processed and acted upon all at the same time.
We have just begun to scratch the surface of the enormity and complexity of it all.

One is Influenced by the Many . . .

and in turn the Many are Influenced by the One!
During our road trip through life . . .

maintenance and repair takes place every second, of every minute of every day.

And when we stray from the normal path, experience fender-benders, or just the day to day wear and tear catches up . . .
... the time comes for a tune up or repair.
We are learning.

Our cells, tissues, and organs have a built in road map and GPS system.

When we get off course and need help, we hope to find the ‘RIGHT STUFF’ to get back on track!
The Terrain

The pursuit of cures for complex health problems has lead investigators in pursuit of Regenerative Medicine.

Stem Cells
Growth Factors
Bio-scaffolds
the ideal regenerative product

- Speed - initiating early application
- Pain reduction
- Stabilization of injured tissues
- Acceleration of healing
- Shortened treatment timeline
- Minimal scarring
- No deleterious side effects
- Return to full function
Now that you get the concept
its time to turn to the mechanics

Compassionate Understanding
Knowledge - to get the right diagnosis
Experience - to perform at the leading edge
Fair Price – for the latest technological advances
OroGen Biosciences

A forward thinking wound care and regenerative medicine company

simplifying the complex . . . safely, economically and resourcefully.
Thousands of patients have benefited from this technology at the hands of the founders of OroGen without any evidence of cancer.

The unique proprietary processes discovered at OroGen intensify one’s own (autologous) tissue regenerative factors, preserving their function.

Additionally, advances have led to expanding the use of donor (allogeneic) resources through preservation. *(With even greater safety in use then provided by blood banks!)*
• Providing cost effective regenerative and reconstructive platforms for:
  • pain management
  • orthobiologics
  • diabetic and complicated wound care cases
  • complimentary of cardiovascular, spinal and orthopedic procedures
  • non-surgical hair regeneration and cosmetic applications

• providing cost saving technologies with multiple platforms for preferred formulation:
  • PRP - Platelet Rich Plasma*
  • CRP - Cytokine Rich Plasma*
  • PPP - Platelet Poor Plasma*
  • T(rf) - Lyophilized Tissue Regenerative Factors*

* stem cell, growth factor and biomatrix applications (leucocyte poor and leucocyte rich options available)
mitogenesis, angiogenesis, and macrophage activation
collagenases, gelatinases, lysozymes, elastases, serprocidins, and myeloperoxidase
acceleration of healing
    tissue restoration
    microbial suppression
    pain reduction
    minimize scarring
    stabilization
    versatility
    availability
Animal & Human Cases

The following cases are real. These vivid examples represent the use of OroGen’s Tissue Regenerative Biomatrix in supporting wound care and regenerative processes.

If you have a weak constitution, you may prefer to stop this program now.
Canine Femoral Fracture
8/24/09 – Surgery Repair

10-22-09 8 weeks post op x-rays: non union with pin migration

10-27-11 T\(^{(rf)}\) injected at fracture site
21 days

Post T(rf) Injection

34 days

11-17-09

12-1-09
Hashi 4/3/12
Distal Tibial
‘Greenstick’ Fx

4/19/12
Upper photos- 7 days after injury, T(rf) applied; lower left – 7 days; lower right - 14 days
HBC 1-12-11. Initial assessment pending a request for euthanasia. The client agreed to the terms of the clinical trial of $T^{(ff)}$. 
1/19/11 One week after initial T (rf) treatment and second application of T (rf) applied “SQ” to ‘devitalized’ areas and multiple ‘5/100 unit’ injections where no skin cover was present on distal leg.
3-29-11
Patient has full use of leg. Very active. Any attempts to photograph medial aspect of leg was unsuccessful due to motion blurring.

No complications were noted from January through March.

Pelvic fractures stabilized with normal capacity to eliminate.
Repeat application by multi-site injection

5-31-12  Day 54
Equine Wound

2008 Non-healing six month old wound

Week 2 (Session 1)

Week 12 (Session 2)
Current case - Chronic, unresponsive to standard therapies. One application of Trf.
Alopecia Areata
50 yr old female
followed 14 months
Diabetic Wound

2006

Day 12
Approximate times of the different phases of normal wound healing

Early Phase: hemostasis and extracellular matrix formation

Cellular Phase: inflammatory response, cell migration, seeding, angiogenesis

Proliferative Phase: granulation, remodeling, maturation

http://en.wikipedia.org/wiki/Wound_healing
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Simplifying Regenerative Therapies and Accelerating Wound Repair

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