



Dr JO  
**Serrentino**

**M.Sc.; DVM; Ph.D. FAARM; DABRM**

*(Master's in Biochemistry; Veterinarian; Doctorate in clinical ecology/environmental medicine; Fellow of the American Academy of Regenerative Medicine; Diplomat of the American Board of Regenerative Medicine.)*



## **AFFILIATIONS**

*American Academy of Regenerative Medicine*

*American Board of Regenerative Medicine*

*NIRM (National Institute of Regenerative Medicine)*

*American Holistic Medical Association and Veterinary Association*

*Stem Cell Orthopedic Center of America*

*Agriculture Canada*

*Royal Society of Chemistry*

*Canadian National Research Council*

*Canadian Industrial Research Assistance Program*

## **OVERVIEW OF PROFESSIONAL CAREER**

Most of my professional career has been as a researcher in BIOMEDICAL CONSULTING for biopharmaceuticals in the USA, Canada and Europe in the following areas:

- Designing studies
- Laboratory & clinical study troubleshooting
- Biomedical advanced profiling
- Clinical ecology studies and applications for environmental medicine protocols
- Scientific information and preparation of monographs, ingredient assessment and positioning and status in formulations, medical & veterinary curricula, specialty webinars presentation and/or development
- Veterinary equine medicine consultation, specialty techniques in infrared level 3 imaging and assessment consultation

## **FORMULATING and FORMULA ASSESSMENT AND/OR AMENDMENT IN THE FOLLOWING CATEGORIES**

- Medical and veterinary protocols and drugs
- Research & development of drugs: systemics, topicals, injectables
- Gene therapy; monoclonal antibodies, antibody fragments
- Cytokine Therapy
- Therapeutic cosmetics and cosmeceuticals
- Diagnostic tests
- New drugs
- Experimental therapeutics
- Nutraceuticals
- Diagnostic markers and tests
- Functional foods
- Natural medicines including herbal tinctures, homeopathic dilutions and glycerites, essential oils, micellar waters and botanicals
- Sports medicine products and drinks.



## RECENT BIOTECH DEVELOPMENTS

- PRP ADD ON KITS AND PROTOCOLS
- STEM CELL TECHNIQUES (LABORATORY METHOD) FOR ENHANCED CELL LINES AND DIFFERENTIATION
- CYTOKINE FORMULATIONS FOR CLINICAL APPLICATION IN STEM CELL and CLINICAL MEDICAL & VETERINARY APPLICATIONS
- DEVELOPMENT OF PHYTOCHEMICAL (BOTANICAL) GENE THERAPY AND TRANSFORMATION TECHNIQUE and TECHNOLOGY TO IMPROVE PHYTOCHEMICAL PROFILE AND TO TARGET SPECIFIC BIOLOGICAL AND BIOCHEMICAL PATHWAYS AND CELL LINES.
- VETERINARY DERMATOLOGICAL FORMULAS TO REPLACE CORTISONE THERAPY: TOPICAL ANTI-INFLAMMATORY; ORAL ANTI-INFLAMMATORY CYTOKINE
- EQUINE STEM CELL ADD-ONS: MOSTLY I.A. INJECTABLE TO REPAIR DEGENERATIVE JOINT AND TENDONOPATHY; SELF-PENETRATING TOPICAL SYSTEM FOR LONG-TERM REPAIR APPLICATION FOR LARGE AND SMALL ANIMALS.
- COSMETICS: PRIVATE LABEL FOR PLASTIC SURGEON: POST-LIPOSUCTION; CLINICAL FACELIFT AND POST-FACELIFT; SKIN TIGHTENING TAKE HOME CREAM; REGENERATIVE CREAM.
- HAIR GROWTH FORMULATION WOMEN & MEN (separate pathology and formula)
- THERAPEUTIC COSMETICS: SERUM; REGENERATIVE CREAM, BIO-FILLER
- THERAPEUTIC TOPICAL: ANTI-NOCICEPTIVE AND ANTI-INFLAMMATORY CREAM; VEIN FORMULA FOR VARICOSE VEINS; FIBROSIS CREAM; POST- MICRONEEDLING TOPICAL; REGENERATIVE TOPICAL CREAM TO REPLACE VAMPIRE FACELIFT AND TO ENHANCE PRP-TYPE CLINICAL AESTHETIC PROCEDURES.
- ORTHOPAEDIC INJECTABLES FOR JOINT REPAIR
- ORTHOPAEDIC FORMULATIONS AND MEDICAL DEVICE ADD ONS
- CALA Agriculture Canada project; phytochemical profiling through clinical ecology

### *Present*

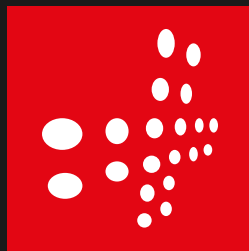
- Most recent discovery and development is my self-penetrating gel for drug delivery topically without injection or medical device. Currently in clinical IRB in Orthopaedic clinics and Regenerative Medicine Institute; scheduled for Anti-Aging network clinics/specialty USA and Asian clinical IRB
- VAGINAL MOISTURIZER/ regenerating cream study targeting vaginal epithelium; for gynecological study IRB and Regenerative Medicine specialists; clinical study planning and networking
- COSMETIC SERUM; for Tissue Restorative Clinic and Regenerative Medicine network: plastic surgery and PRP clinics
- Consulting on veterinary atopic dermatitis potential injectable with cytokine therapy



## **SPECIALTIES**

Extensive expertise and research & development in the following areas:

- Protein sequencing and clones for biological new medicine
- Peptide inclusion for medicine
- Use of cytokines in medicine and therapy and as pathophysiological markers; development of study methods and formulations
- Biological markers for diagnostics; targeting and research& development
- Carrier formulations for enhanced absorption of active principles; formulating, assessment and/or amendment
- Molecular manipulation for enhanced biological properties esp. with protein (cytokine) and gene therapy
- Metabolic Syndromes and Energy Metabolism associated esp. with insulin resistance in humans and equines
- Stem cell extenders and methodologies for clinical application
- Orthopaedic biologicals for clinical application in Regenerative Medicine especially for geriatrics such as osteoarthritis and osteoporosis formulas and for Sports Medicine (enhanced healing and non-invasive techniques and maintenance and preventive medicine for human and equine athletes.)



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