

# AGING

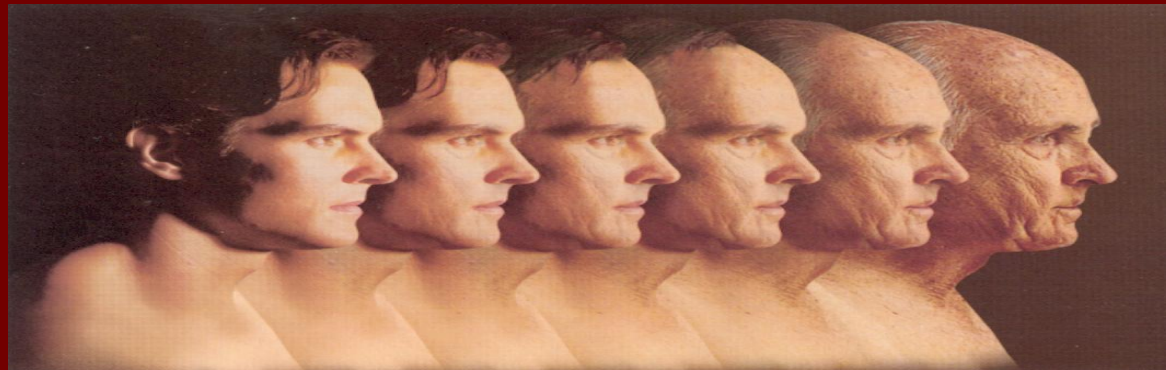
The real secrets to aging gracefully



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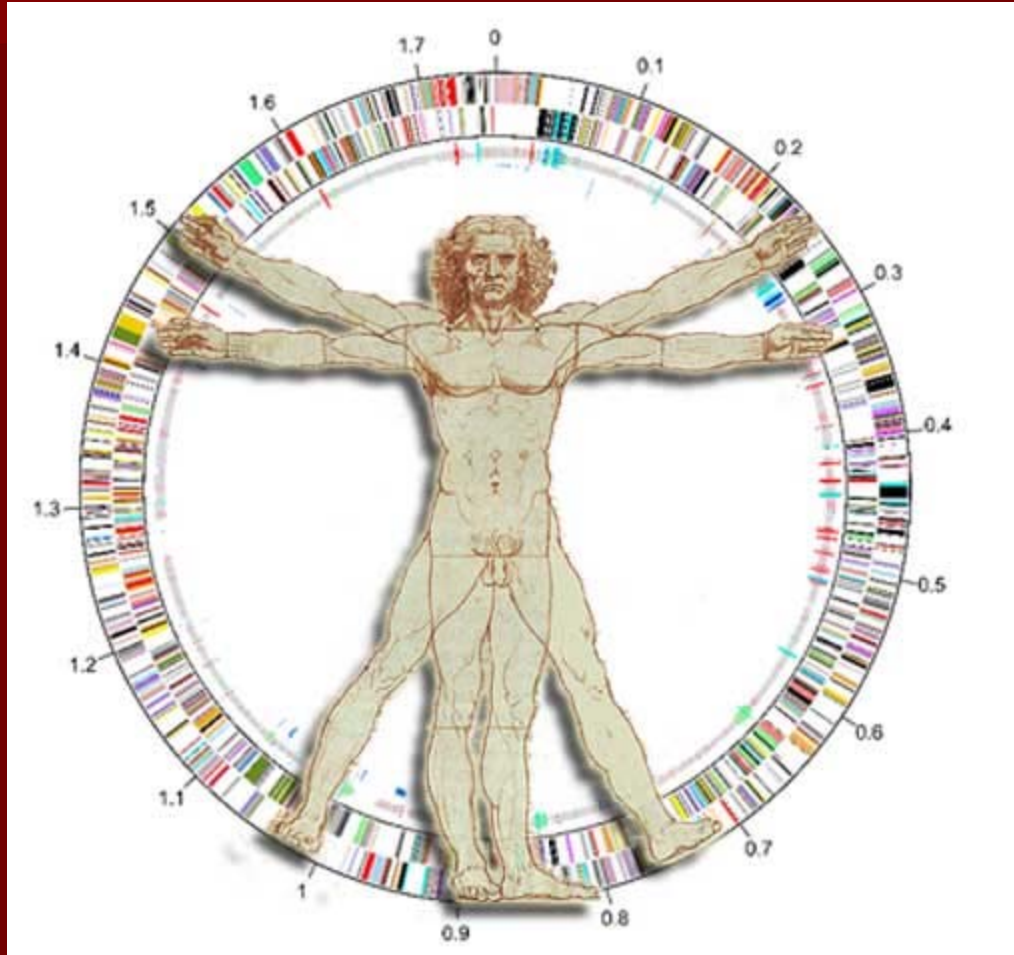
# Agenda

- Intrinsic Factors
  - Extrinsic Factors
  - Structural Changes
  - Bio Chemical Reactions
- What Can be done to Help?
    - Age Smart
    - Chroma White
    - Medi Bac Clearing System
    - Clean Start



# Intrinsic Factors

- Genetics



# Extrinsic Factors

## The Environment

- Creates more pronounced changes
- 80-99% due to exposure to daylight
- Known as Photo aging
  - wrinkle formation
  - lack of elasticity
  - dilated Capillaries
  - skin thickens
  - hyper/hypo-pigmentation



# Structural Changes

- Wrinkles
  - Reduction of muscle mass and skin thickness
  - Cross linking of collagen and elastin
  - Dehydration of Stratum Corneum
- Skin Discoloration
  - Hyper and Hypo Pigmentation
- Breakdown of Collagen and Elastin
  - 20-80% of thickness is lost due to the aging process
  - Collagen and Elastin is produced at a slower rate
  - Skin lacks the ability to repair itself
  - MMP Enzymes create collagenase and elastase which is the breakdown of collagen and elastin



# Structural Changes

## ■ Slowdown of Cell Turnover

- Between ages of 30-80 the epidermal turnover rate slows 30-50%
- Characteristics are rough and dry skin on the surface

## ■ Dehydration

- GAGS  
(Glycosaminoglycans) =  
Hyaluronic Acid  
(Intercellular glue which changes and diminishes in the skin over time.
- This loss creates dehydration and the inability to bind and retain water
- Result is fine lines and scaliness

# Bio Chemical Reactions

- ROS (Reactive Oxygen Species). Otherwise known as free radicals.
  - Free radicals attack healthy cells
  - Creates cross-linking of collagen, inflammation, and disease

- MMPS (Matrix Metalloproteinase). Otherwise known as specific enzymes.
  - When activated results in breakdown of collagen and elastin

- AGES (Advanced Glycation End Products).
  - A type of glucose that reacts with proteins such as collagen.
  - Creates inflammation.
  - Results in cross-linking of protein fibers and loss of elasticity

**Basically we know that ROS, MMPS and AGES are all responsible for the intrinsic aging process. UV light, pollutions and chemicals stimulate these processes resulting in the breakdown of collagen and elastin in our skin.**

# What can be done to help?

- Vitamin C and E with sunscreen protects against ROS Damage
- Vitamin A (Retinoids) Green and White Teas, Soy Phytoestrogens, Synthetic Peptides and Yeast Extracts control MMPS Damage.
- Glucosamine, Soy Proteins and Arginine Lysine Polypeptides can prevent AGES Damage

# Age Progression with & without good skin care



Artwork by Dr. D'Lynn Waldron ©2002



**Dermalogica's Age Smart line focuses on the impact of Biochemical reactions that manifest changes; stopping them before they start.**

# AGE SMART LINE

- Skin Resurfacing Cleanser- Lactic Acid, Vitamin E, Rose Flower Oil
- Antioxidant Hydramist – Arginine/Lysine Polypeptide, MAP non-acidic form of Vitamin C, Peptides and White Tea
- Multivitamin Power Recovery Masque- Vitamin A, C, E, Linoleic Acid, Panthenol, Oat Kernel, and Algae Extract
- MAP-15 Regenerator- MAP (Vitamin C) Hyaluronic Acid, Glucosamine, Yeast Extract
- Multivitamin Power Concentrate-Vitamin A,C,E, Grapefruit Peel Oil, Lime Oil, Orange Peel Oil, Mandarin Orange Peel Oil

# AGE SMART LINE

- Dynamic Skin Recovery spf 30- Arginine/Lysine Polypeptide, Glucosamine, Hyaluronic Acid, Yeast, Colloidal Oatmeal, White Tea
- Super Rich Repair – Arginine/Lysine Polypeptide, Evening Primrose Oil, Jojoba Seed Oil, Shea Butter, Coconut Oil, Vitamin E, Colloidal Oatmeal, Hyaluronic Acid
- Power Rich- Palmitoyl Pentapeptide -3 (protein), Glucosamine, Red Seaweed Extract, Yeast, Rice Bran Extract
- Multivitamin Power Firm- Vitamin A,C, E, Red Seaweed Extract, Organic Silicones Green Tea Extract
- Renewal Lip Complex – Arginine/Lysine Polypeptide, Cocoa Seed Butter, Avocado Oil, Wheat Germ Oil, Shea Butter, Hyaluronic Acid

# ChromaWhiteTR<sub>x</sub>

A new era in brightening from the skin health experts.



Want brighter, more luminous skin?

# Chromo White TRX

- In the past decade, there has been a huge increase in popularity of skin brightening products.
- Asian market is the leader and accounts for 37% of worldwide sales.
- Hyper-pigmentation and Hypo-pigmentation is perceived as aged skin.

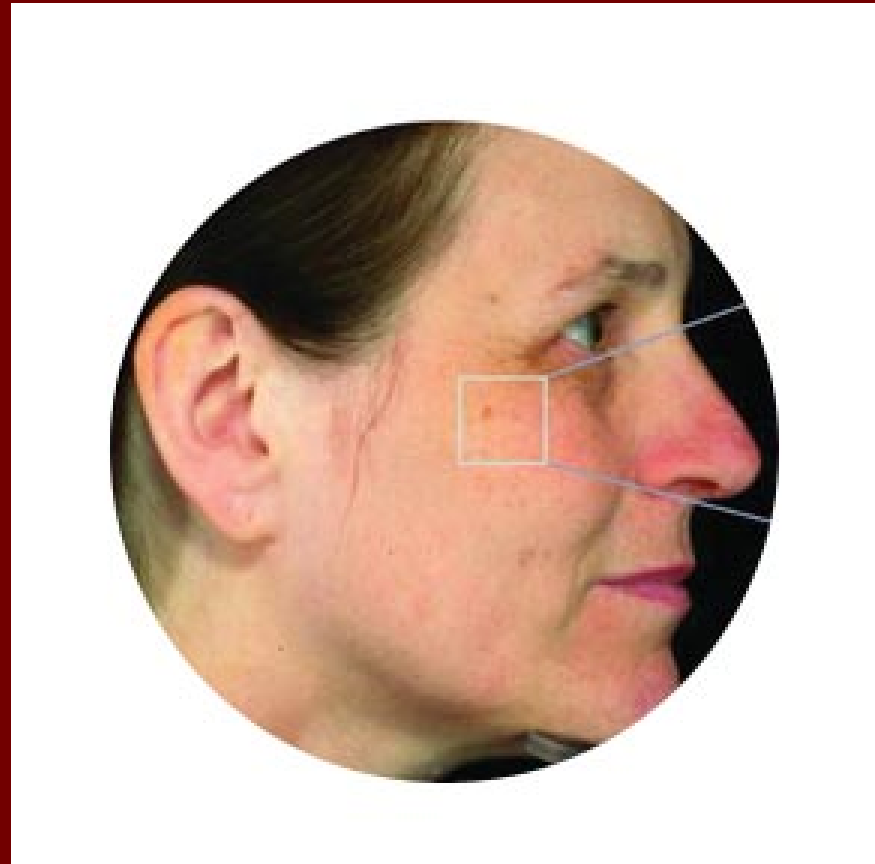
# Melanin

- Skin color is determined by the amount of melanin in the skin.
- The primary function of melanin is to protect the skin from sunlight.
- By the age of 60, 90% of people will have sun induced age spots.
- Melasma (Mask of pregnancy) affects up to 75% of women during pregnancy.
- Melasma also affects 33% of women on birth control pills

# HYPER/HYPOPIGMENTATION

## CAUSES

- Hormonal, prescription drugs, stress, cosmetics & perfumes
- Poor wound healing
- Sun damage



# CONTROLLING HYPERPIGMENTATION

- Controlling the Tyrosinase enzyme helps to slow down melanin formation by using proper skin care products and Broad Spectrum Sunblock SPF 30.
- Ingredients used in skin brightening products include, Rice Extract, Bearberry, Kiwi Fruit, Mulberry, Licorice, Giant Fennel, and White Tea.
- 5% Lactic Acid, 1% Kojic Acid and Pumpkin Enzyme all slow down the process
- Newer forms of Vitamin C and Peptides are available. Oligopeptide-34 is the newest state of the art synthesized peptide.
- Hydroquinone 2% is still used but has been found to have cancer causing potential.
- Banned in many countries throughout the world.
- It is the only ingredient allowed to be called "lightening" all others must be called "brightening".

# CHROMAWHITE TRX LINE

- Tri-active Cleanse- Lactic Acid, Vitamin C, Shea Butter
- Powerfoliant- Pumpkin Fruit Ferment, Papain, Lactic Acid, Salicylic Acid
- C-12 Concentrate – Oligopeptide-34, Zinc Glycinate, Phytic Acid, Blend of Peptides
- Extreme C- MAP(newer form of Vitamin C) , White Tea, Algae and Yeast Extract
- Pure Light spf30- Peptides, Vitamin C, Titanium Dioxide, Zinc Oxide Hyaluronic Acid
- Pure Night – Oligopeptide-34, Vitamin C, Licorice, White Tea, Jojoba Seed



# Medi Bac Clearing System

# Acne

- Post- Adolescent Acne is on the rise
- 40-55% of people ages 20-40 have low-grade persistent acne.
- Chronic stress is one primary reason.
- Genetics and hormone imbalances are other reasons.
- Other causes can be pharmaceutical drugs, inappropriate skin products, heat and humidity.

# Acne

- Overactive Sebaceous Glands
- Cell Accumulation
- Bacteria
- Inflammation



# Medi Bac Clearing System

- Many of the acne lines available today address teen acne, which can be too drying for many people over the age of 35.
- Medi Bac Clearing System addresses acne in adults without over-drying and irritating the skin.
- Ingredients such as Salicylic Acid, Tea Tree, Green Tea and 5% Benzyl Peroxide are used to fight the Acne and leave the skin clear and smooth.

# Medi Bac Clearing System

- Clearing Skin Wash- Salicylic Acid, Tea Tree, Eucalyptus
- Skin Purifying Wipes – Balm Mint, Camphor, Witch Hazel, Salicylic Acid
- Clearing Mattifier – Salicylic Acid, Vitamin A & E, Green Tea, Grape Seed, Chamomile
- Oil Control Lotion – Yeast Extract, Horse Chestnut, Salicylic Acid
- Sebum Clearing Masque – Kaolin & Bentonite Clay, Oat Kernel, Caffeine, Salicylic Acid
- Overnight Clearing Gel – Tea Tree Oil, Rosemary, Green Tea, Hyaluronic Acid, Salicylic Acid
- Special Clearing Booster – 5% Benzyl Peroxide, Zinc, Tea Tree, Sage
- Concealing Spot Treatment – Sulfur, Zinc Oxide, Salicylic Acid

# Clean Start Line



# Clean Start Line

- Designed for teens when skin care issues first arrive.
- Created to cleanse, address breakout issues, and protect the skin.
- Like all Dermalogica products, Clean Start is not tested on animals.



# Clean Start Line

- Wash Off – Salicylic Acid, Orange Peel, Botanicals
- All Over Clear – Sesame Seed, Licorice, Burdock, Lemongrass
- Ready, Set, Scrub – Purifying Clay, Cooling Menthol, Silica
- Bedtime For Breakouts – Salicylic Acid, Cooling Cucumber, Licorice

# Clean Start Line

- Hit The Spot – Benzyl Peroxide, Zinc Sulfate, Soothing Plant Extracts
- Welcome Matte SPF15 – Fruit Oils, Licorice Root Extract, Arnica
- Brighten Up SPF15 – Birch Leaf, Willow Bark, Lavender Extract, Titanium Dioxide
- Smart Mouth Lip Shine – Vitamin E, Cocoa Seed Butter, Shea Butter

# The Real Secret to Aging Gracefully?



# Proper Skin Care



# Thank You

## Are there any questions?



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# Source Reference

Data regarding product lines, product content, and product images obtained from the International Dermalogica Institute website at:

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