

Wholesale Catalog

Series I & II



KELLA L. VANGSNESS

*High-Quality Prints, Canvas Prints
and Custom Commissions*

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KELLA L. VANGSNESS

Kella L. Vangsness is an artist and scientist based in Los Angeles, California. Her work has been featured in medical publications and her original collection of Stem Cell paintings currently reside in the Eli and Edythe Broad CIRM Center for Regenerative Medicine and Stem Cell Research at University of Southern California, Keck School of Medicine.

Her background in art, psychology, and regenerative medicine lends a unique perspective she hopes to share with science enthusiasts of all ages. Her Series I collection is a playful pop-art depiction of stem cell biology available as prints on paper and canvas. Custom commissions are available as well.

General Information

High-Quality Art Prints & Guarantee

All prints are made to order in Los Angeles, California. We use premium grade paper and canvas to ensure the highest quality art for our customers. Every piece is signed by the artist and inspected by our team before leaving our facility. For more information about the products we use and our printing process please contact us.

Sizing, Pricing & Framing

1. All works and can be printed at any square size on paper or canvas, up to 15 x 15'. We do offer canvas float framing upon request.
2. Prices listed are for the most commonly requested sizes.
3. Float framing for canvas prints available upon request.
4. For information on float framing or to inquire about pricing [click here](#).

Our Customers

Our high-quality prints and custom canvases available to the trade includes: art dealers, not-for profits, retailers, and design professionals. We require you to register and provide tax exempt paperwork as necessary. The trade may also purchase retail prints offered to the public. Please contact us for information on retail minimums and wholesale purchases.

Custom Commissions

We would love to work with you to create artworks to complement your space and science specialty. Explore opportunities for custom commissions, [contact us](#) today!

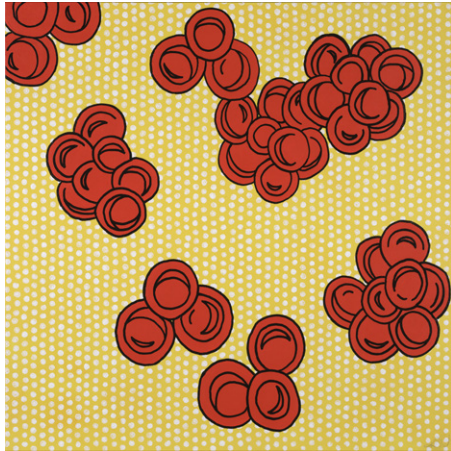
How to Place Orders / Customer service

Website: www.kellavangsness.com/collections/wholesale

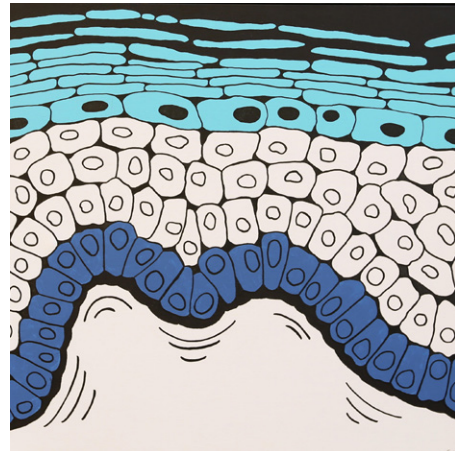
Email: kellavangsness@gmail.com

Phone: (310) 766-1196

Series I: Stem Cells: The Heroes of Disease



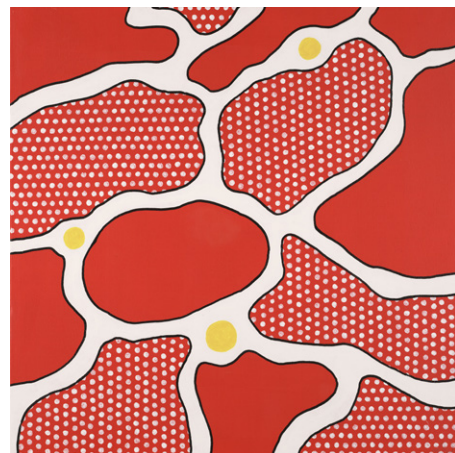
HEMATOPOIETIC STEM CELLS



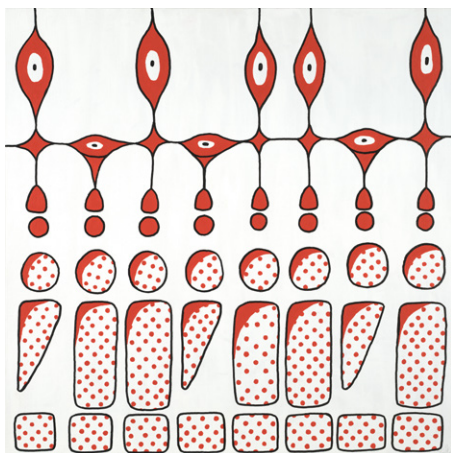
SKIN CELLS



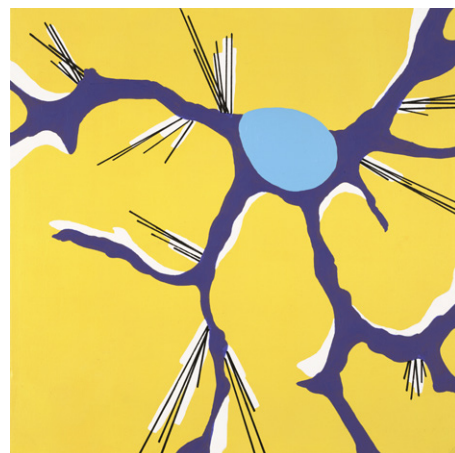
THE BLASTOCOEL



SATELLITE CELLS



RETINAL CELLS



THE ASTROCYTE



HEMATOPOIETIC STEM CELLS

Hematopoietic Stem Cells are responsible for the production and replenishment of all blood cell types during the entire life of an organism. HSC therapy is the current standard treatment for numerous hematological conditions such as multiple myeloma, non-Hodgkin's lymphoma, Hodgkin's lymphoma and sickle cell anemia.

- All prints are available on paper and canvas in square sizes up to 15 x 15'
- Common size options and pricing available on Pg. 22



SKIN CELLS

Skin stem cells are the multipotent adult stem cells that self-renew and differentiate into the layers of the skin. They reside in the basal layer of the epidermis and generate terminally differentiated cells that become the layers of the epidermis. Skin renewal occurs throughout life and during skin injury and repair. Current studies are exploring wound healing, genetic manipulation and patients with skin disorders.

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THE BLASTOCOEL

Human embryonic stem cells are derived from the inner cell mass of the blastocyst on day five of embryonic development. Human ES cells are pluripotent cells and can differentiate into various cell types *in vivo* and *in vitro*. There has been a shift away from using human embryonic stem cells due to ethical issues and replaced with reprogramming somatic cells into pluripotent stem cells, called induced pluripotent stem cells.

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SATELITTE CELLS

Satellite Cells are the stem cells of skeletal muscle and play an indispensable role in muscle regeneration. Adult skeletal muscle regeneration is a highly orchestrated process involving the activation of various cellular and molecular responses showing the remarkable ability to repair post injury. Satellite cells are not as applicable in regenerative medicine due to isolation difficulties outside of the body.

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RETINAL CELLS

The retina contains photoreceptor cells, called rods and cones, whose job is to react to light and convert it into electrical signals to send to the brain. The RPE cells are lost in Macular Degeneration, causing death of photoreceptors and a loss of central vision and therefore, blindness. Current treatment of Macular Degeneration looks to use stem cells to replace the retinal cells that die in the hopes of halting further blindness and slow the progression of the disease.

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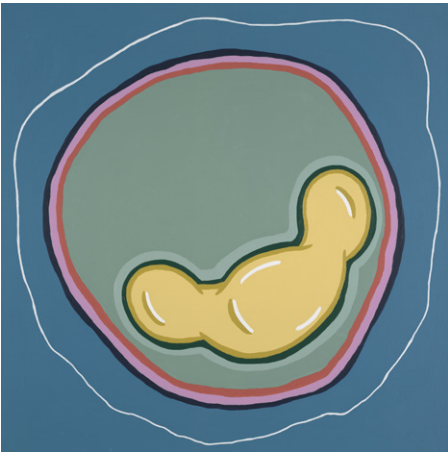


THE ASTROCYTE

Astrocytes help to maintain the optimal environment for neuronal signal transmission. During development, neural stem cells differentiate into neurons and glial cells, such as astrocytes. These stem cells are abundant and can regenerate in the fetal brain but have minimal regeneration capabilities in the adult brain. Neural stem cells have the potential to be used in cell replacement therapy, drug delivery and disease modeling.

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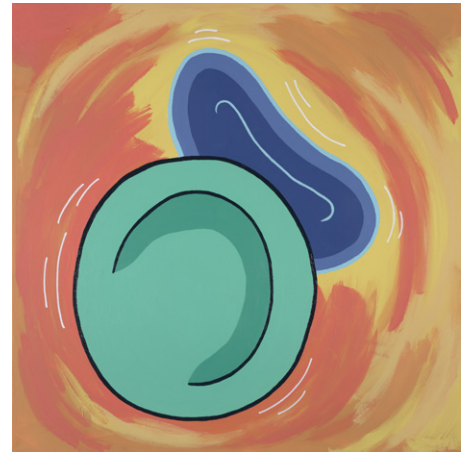
Series II: The Immunity System



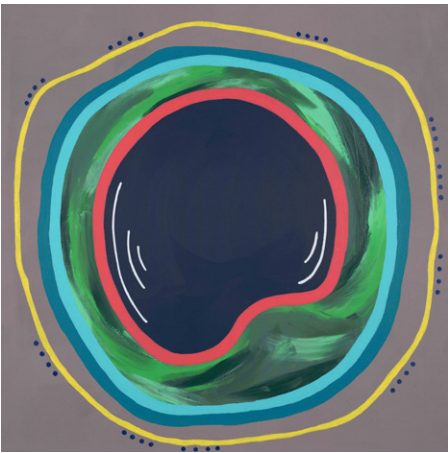
BASOPHIL



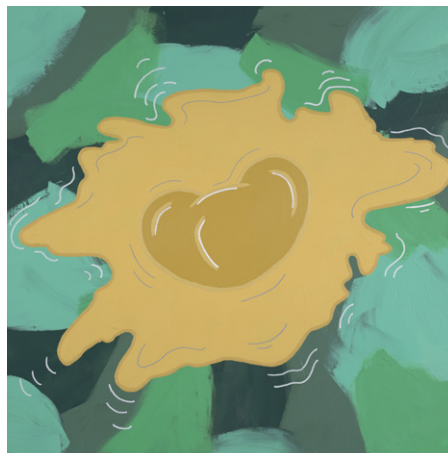
ESOPHIL



ERYTHROCYTES



LYMPHOCYTE



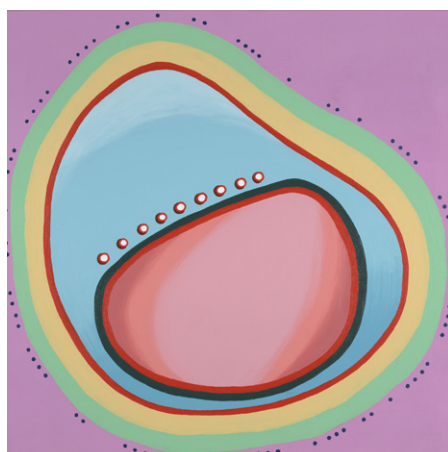
MACROPHAGE



MAST CELL



MONOCYTE



NATURAL KILLER CELL



NEUTROPHIL



BASOPHIL

Basophils are the largest granulocyte and make up about 0.5-1% of circulating white blood cells in the body. They are part of the inflammatory response and coordinated immune response. Basophils are created and mature within the bone marrow. They have large cytoplasmic granules and a two-lobed nucleus. Cell surface proteins bind immunoglobulin, IgE, and help to mediate the secondary immune response. Basophils store histamine, a vasodilator and heparin, an anticoagulant. They can be recruited into tissues from circulating blood when needed to respond to allergic reactions.

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EOSINOPHIL

Eosinophils are a type of white blood cell that controls immune responses to allergies and asthma. They develop in the bone marrow during hematopoiesis and migrate into the blood where they will terminally differentiate and reside in tissue. They make up about 1-3% of white blood cells with bilobed nuclei.

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ERYTHROCYTES

Erythrocytes, also known as red blood cells (RBCs) are the most common type of blood cell and are responsible for delivering oxygen from the lungs to tissues through the circulatory system. RBC cytoplasm contains hemoglobin, a molecule containing iron to bind oxygen and give cells and blood their red color. They have an oval biconcave disk shape and lack a nucleus. Approximately 2.4 million new RBCs are created each second in the bone marrow. Cells circulate for 100-200 days before they are broken down and disposed of. They make up almost half of the blood's volume and 84% of total cells in the human body.

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LYMPHOCYTE

Lymphocytes are a subtype of white blood cells which include natural killer cells, T cells, and B cells. They are the main cell in lymph, the fluid that flows through the lymphatic system. Various lymphocytes can be identified by their large nucleus. All lymphocytes are created in the bone marrow during hematopoiesis and come from a common progenitor before they differentiate into their distinct cell types in various regions in the body. Lymphocytes are known for their role in adaptive immunity as well as their differentiation after antigen exposure.

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MACROPHAGE

Macrophages are a type of white blood cell that digests pathogens and cellular debris through phagocytosis. They are found in almost all tissues and play a crucial role in innate immunity as well as in the initiation of adaptive immunity mechanisms through the recruiting of other cell types. Macrophages can both increase inflammation as well as decrease immune reactions by using differing types of macrophages. They are produced by circulating monocytes and differentiate into various forms within tissues.

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MAST CELL

Mast cells are a type of granulocyte that plays a role in the immune system, wound healing and angiogenesis. They are found in most tissues surrounding blood vessels and nerves, specifically the skin, lungs, digestive tract, mouth and nose, as well as in the neuroimmune system in the brain. Mast cells are key players in the inflammatory process. When activated, they act as mediators to induce inflammation.

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MONOCYTE

Monocytes are a type of white blood cell that differentiates into macrophages and dendritic cells. They have a large nucleus and cytoplasm with their main functions being phagocytosis, antigen presentation and cytokine production. They are involved in the innate immune system as well as play an influential role in the adaptive immune system. They are created in the bone marrow from monoblasts and move to circulating in the bloodstream for 1-3 days followed by tissues where they will continue to differentiate. Monocytes are responsible for protection against foreign substances and in the formation of various organs.

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NATURAL KILLER CELL

Natural killer (NK) cells are cytotoxic lymphocytes involved in the innate immune system by providing a rapid response to virus-infected cells and tumor formation. They are able to recognize stressed cells at day three days post-infection. NK cells are unique in that they do not require activation markers. NK cells differentiate and mature from a lymphoid progenitor in the bone marrow, lymph nodes, spleen, tonsils and thymus and then move into the bloodstream to circulate.

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NEUTROPHIL

Neutrophils are a type of granulocyte and make up 50-70% of white blood cells in the body. They play a role in the innate immune system. Neutrophils are formed in the bone marrow and differentiated into various cell types. They have phagocytic properties and are part of the first inflammatory response at the site of injury.

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Price Sheet

Art Prints on Archival Paper

| | WHOLESALE COST | SUGGESTED RETAIL |
|----------------|-------------------|----------------------|
| 12 x 12" | \$40 | \$89. ⁹⁹ |
| 16 x 16" | \$50 | \$110. ⁹⁹ |
| 24 x 24" | \$120 | \$267. ⁹⁹ |
| 48 x 48" | \$400 | \$889. ⁹⁹ |

Print on 3/4" Canvas

| | | |
|----------------|------------|----------------------|
| 12 x 12" | \$108 | \$239. ⁹⁹ |
| 16 x 16" | \$150 | \$332. ⁹⁹ |
| 18 x 18" | \$150 | \$332. ⁹⁹ |
| 20 x 20" | \$150 | \$332. ⁹⁹ |

Print on 1-1/2" Canvas

| | | |
|----------------|------------|------------------------|
| 12 x 12" | \$138 | \$306. ⁹⁹ |
| 16 x 16" | \$170 | \$379. ⁹⁹ |
| 24 x 24" | \$220 | \$489. ⁹⁹ |
| 48 x 48" | \$700 | \$1,558. ⁹⁹ |

Print on 1-1/2" Canvas with 3/4" Floated Frame

| | | |
|----------------|------------|------------------------|
| 12 x 12" | \$185 | \$410. ⁹⁹ |
| 16 x 16" | \$257 | \$570. ⁹⁹ |
| 24 x 24" | \$380 | \$689. ⁹⁹ |
| 48 x 48" | \$923 | \$1,846. ⁹⁹ |

All prints and canvases are sold separately and do not include installation or shipping charges.

Payment & Policies

Payment Terms

At this time we do not offer net terms. Payment must be made via credit card at the time orders are placed; online or via invoice. Orders that are processing will not ship until payment has been approved. If you have any questions regarding payment processing please contact customer service.

Minimum Retail Prices

We ask that all buyers agree to a minimum advertised retail price, not to fall below 15% of suggested retail price. We also ask that buyers do not exceed 10% over suggested retail price. Any buyer found operating out of policy will not be allowed to make future purchases.

Shipping & Returns

Orders are typically processed and shipped within 1 week. For larger custom orders an estimated timeframe will be provided. Upon shipment, tracking information will be sent via email. While we do not accept returns, damaged items will be exchanged for new products. For instructions on how to issue a return request, please contact [customer service](#).

Shipping Rates

Free shipping within the U.S. on art print orders over \$100 (Excludes Alaska & Hawaii). Canvas print orders, or orders containing canvas prints will be calculated based on your order and invoiced separately. Expedited and international shipping available upon request.

KELLA L. VANGSNESS

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