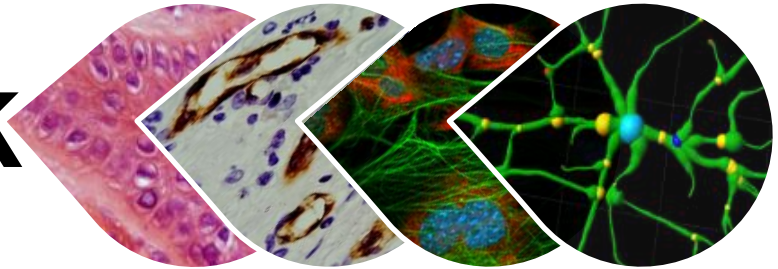


Histospeck

LTD



Histology, Cytology, Image Analysis & Scientific Consultation Services

For details: Dr. Itay Spektor



+972-50-4690708



Itay@histospeck.com



www.histospeck.com

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Our Histology services include:

- **Blocks preparation & sectioning**- Paraffin/ Frozen {soft/calcified tissue; Paraffin- Cell block- for Antibodies calibration/ *In-Vitro* experiment; Tissue Microarray (TMA)}.
- **Routine stainings** (H&E, Picro-Sirius Red, Masson's Trichrome, Toluidine Blue, Safranin O. etc.).
- **Antibodies literature search** and **antibodies calibration**.
- **Cell adhesion to slides** (Cytospin)+ Antibodies ICC calibration- various **Fixation and permeabilization methods**.
- **Immunohistochemical staining**- (fluorescence/non fluorescence), Including **OPAL Multiplex**-
 IHC: for tissue/TMA/cell block
 ICC: for cell culture*/Body fluids*/Cytospin attached cells.
 *Including CytoTIME- a unique developed method for preservation & ICC of Body fluids cells & Cell culture.
- **Image acquisition** (fluorescence/non fluorescence)+ **whole slides scanning** services.
- **Quantitative Image Analysis for stainings- Algorithm/Machine Learning based**- from H&E, HRP/AP, Fluorescence.
 ✓ #cells & cells populations// Signal Intensity // Distance between cells.
- **3D models reconstruction** from fluorescence confocal dataset+ Volumetric Analysis.
- **Statistical Analysis**.
- **Histological report**.
- **Pathological report** (by certified pathologists).

Legend:

IHC- Immunohistochemistry

ICC- Immunocytochemistry

פירוט שרותי ההיסטולוגיה והאנליזה אותם אנו מספקים:

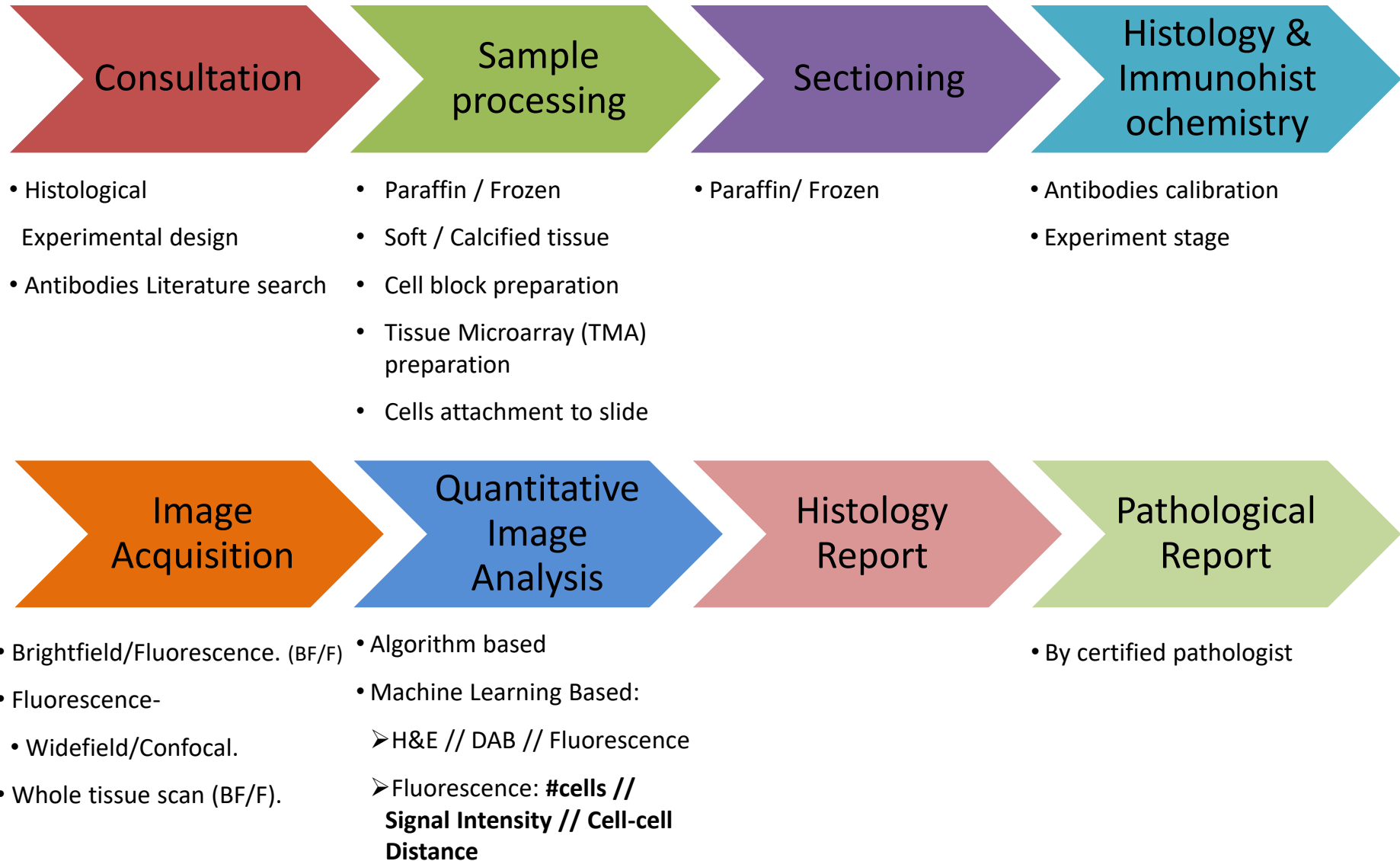
- **הכנת בלוקים** - פרפין/ קריו {רקמה רכה/עצם; פרפין- בלוק תאים לכויל נוגדנים/לניסוי; הכנת TMA- Tissue Microarray}.
- **צביעות רוטיניות** (H&E, Picro-Sirius Red, Masson's Trichrome, Toluidine Blue, Safranin O).
- **חיפוש ספרותי וכיול נוגדנים.**
- **הצמדת תאים לסלייד** (Cytospin) + כיול נוגדנים בשיטות פיקסציה + פרמאביליזציה שונות.
- **צביעות אימונוהיסטוכימיות** (פלורסנטי/לא פלורסנטי-HRP/AP, כולל OPAL Multiplex).
- **IHC** - ל-רקמה/ בלוק תאים/ TMA.
- **ICC** - ל-תאים בתרבית*/ נוזלי גוף*/ תאים שהוצמדו ב- Cytospin.
- **CytoTIME** - שיטה ייחודית לשימור ו-ICC של תאים מנוזלי גוף ותאים מתרבית.
- **צילום סליידים** (פלורסנטי/לא פלורסנטי) + שירותי סריקת סליידים .
- **אנליזה כמותית של צביעות** (מבוססת אלגוריתמים/ מבוססת למידת מכונה) - מצביעות H&E, HRP/AP, פלורסנטיות. ✓ מס' תאים & אוכלוסיות תאים // עוצמת ביטוי חלבונים // מרחק בין תאים & אוכלוסיות תאים.
- **הכנת מודלים תלת-מימדיים** של צביעות אימונו-פלורסנטיות (+אנליזה 3D).
- **אנליזה סטטיסטית.**
- **דו"ח היסטולוגי.**
- **דו"ח פתולוגי** ע"י פתולוג מוסמך (הומני/ וטרינרי).

מקרא:

IHC - אימונוהיסטוכימיה

ICC - אימונוציטוכימיה

Histology & Image Analysis Process:



Histology & Image Analysis Process:

1. Consultation

- Histological Experimental design
- Antibodies Literature search

2. Sample processing & Sectioning

- Paraffin / Frozen
- Soft / Calcified tissue
- Cell block preparation
- Tissue Microarray (TMA) preparation
- Cells attachment to slide



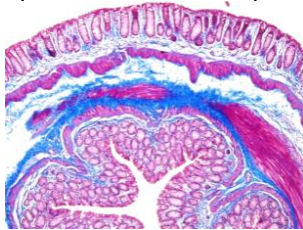
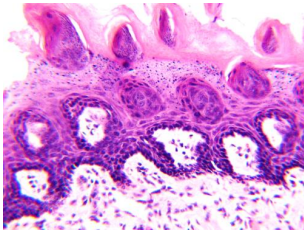
3. Histology & Immunohistochemistry (+OPAL)

- Antibodies calibration • Experiment stage

Soft tissue

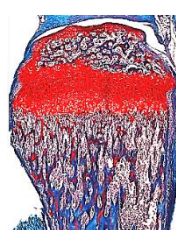
H&E

Routine stainings
(i.e. Mas. trichrome)

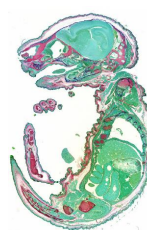


De-calcified tissue (bones)

H&E &
Routine Stainings

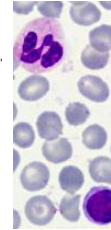


Newborn
stainings

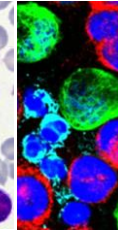


Body Fluids

Giemsa

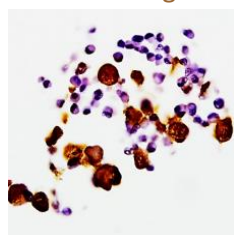


IHC-F

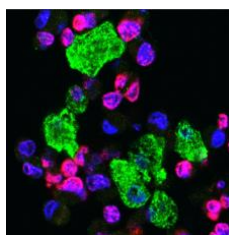


Cell block

IHC Chromogenic

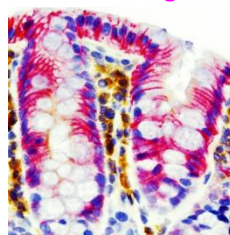


Fluorescence

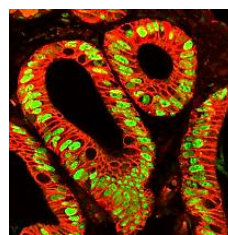


Immunohistochemistry (IHC)

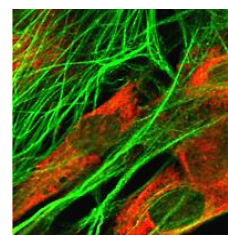
IHC Chromogenic



Tissue

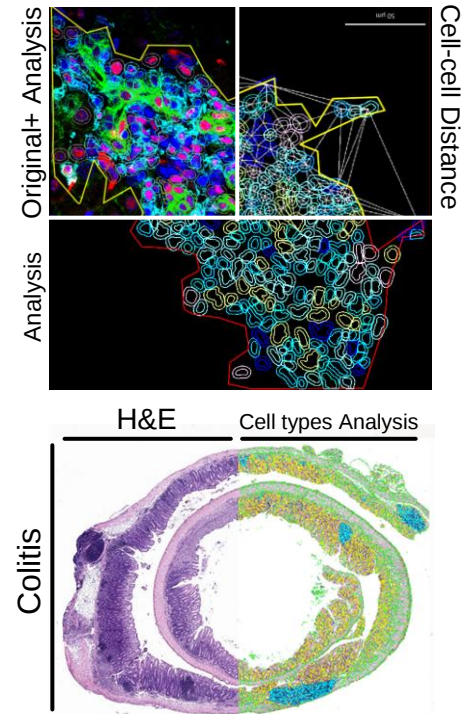


Cell culture



4. Image Analysis (IA)

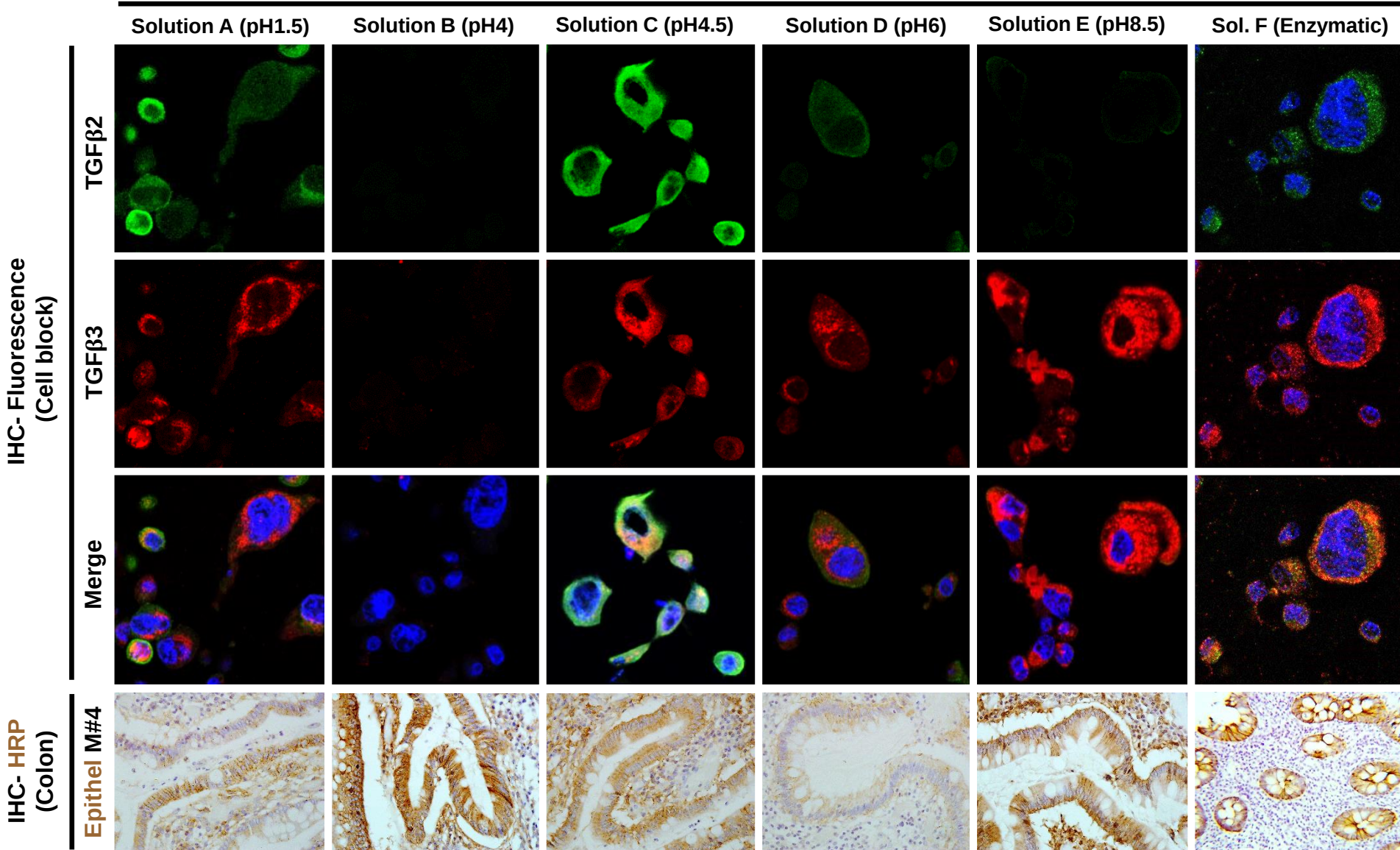
- Algorithm based
- Machine Learning Based:
 - #cells // Signal Intensity // Cell-cell Distance

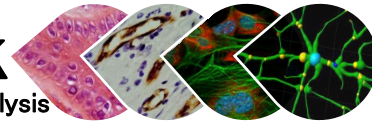


5. Pathological Report

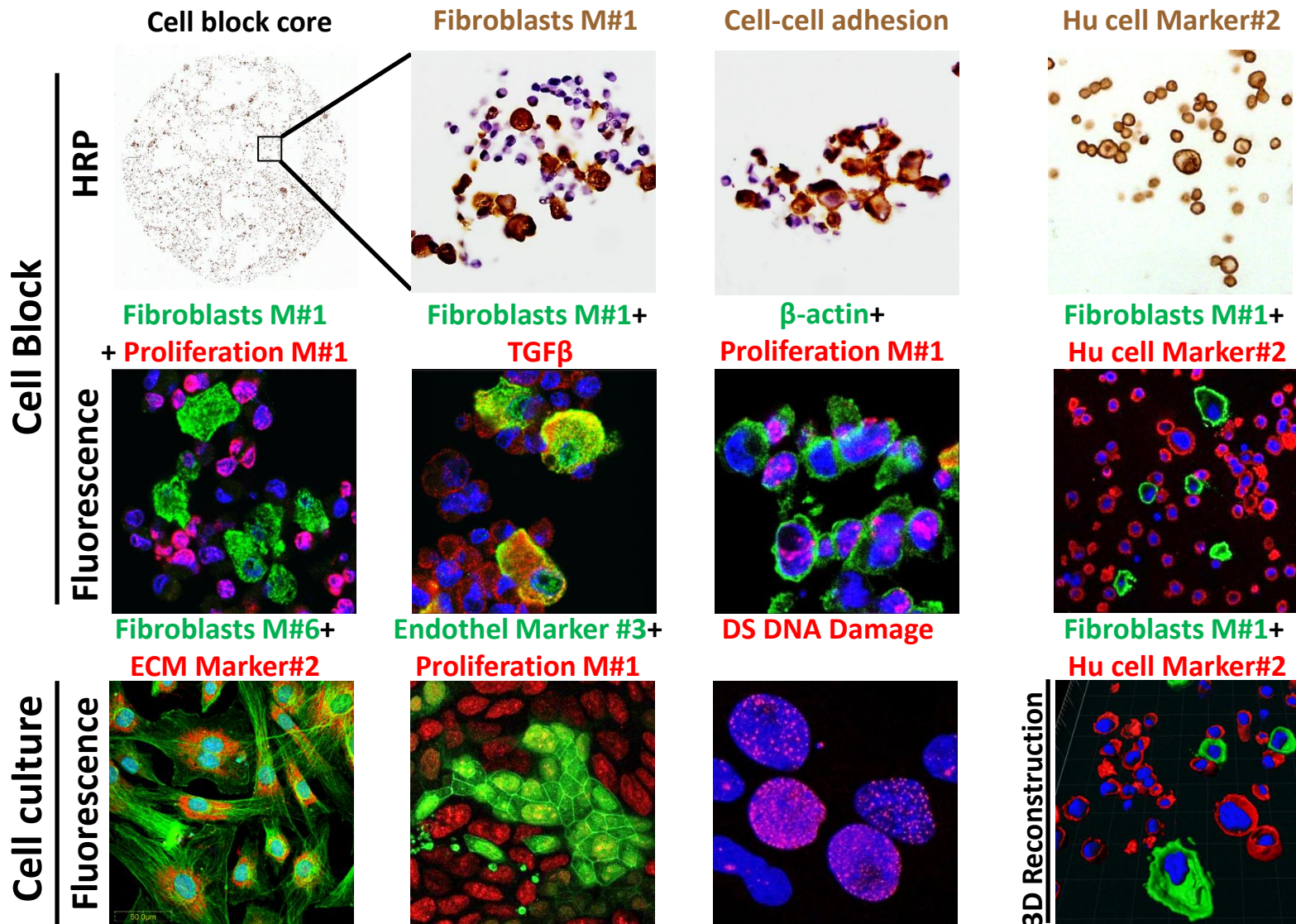
- Histology & IA report.
- Pathological evaluation & report.

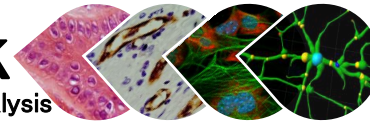
Histospeck now offers: **Various IHC Antigen Retrieval methods.**





Histospeck now offers: **Cell block & Cell culture IHC services**

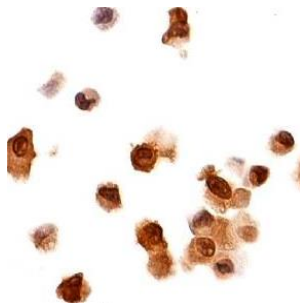




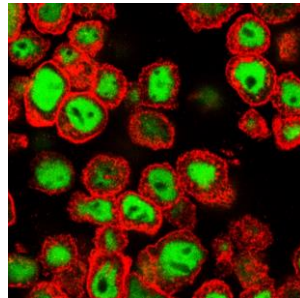
Histospeck now offers: **Cell block IHC services** (2nd brochure)

Cell Block

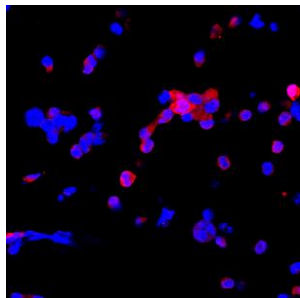
Enzyme (HRP)



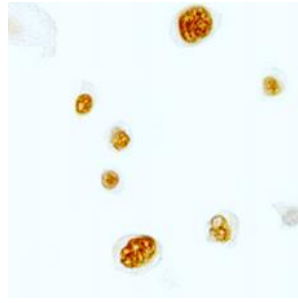
Proliferation M#2+
Hu cell Marker#2



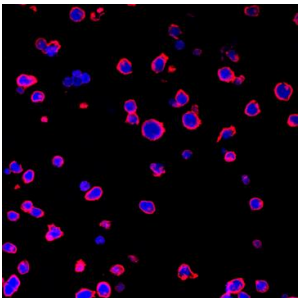
Luciferase



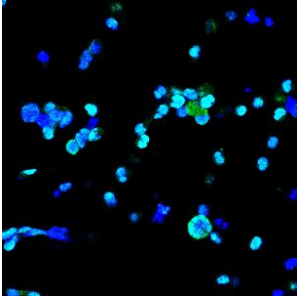
FOXO3A (Tumor+ Fibroblasts)



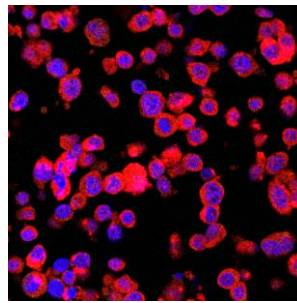
Hu cell Marker#2



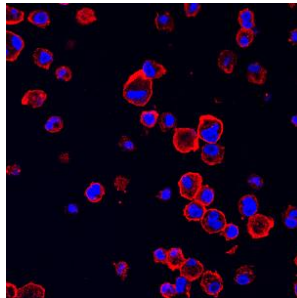
Proliferation M#2



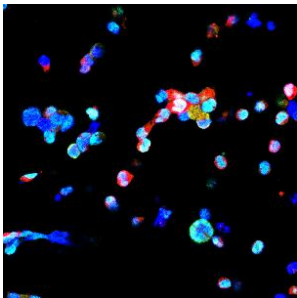
Viral protein



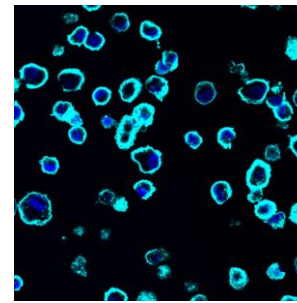
Immune Inhibitory
Marker #1



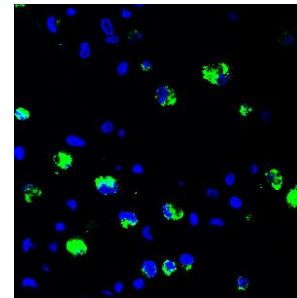
Luciferase+ Proliferation M#2



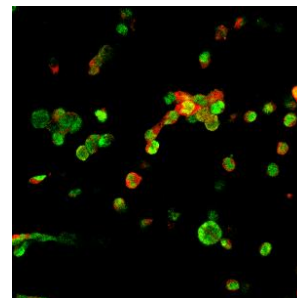
Cancer cells M#1



GFP



Luciferase+ PCNA



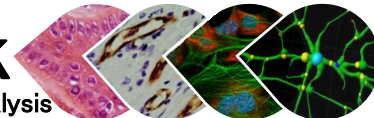
Histospeck now offers:

Custom made Tissue Microarray (TMA)

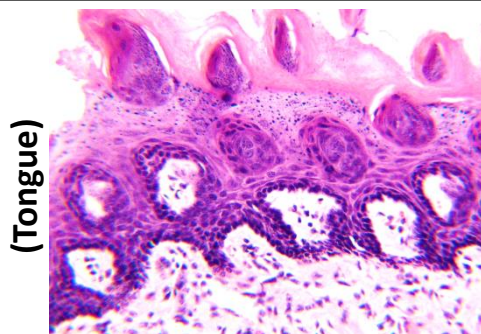
block preparation and IHC Services

Histospeck

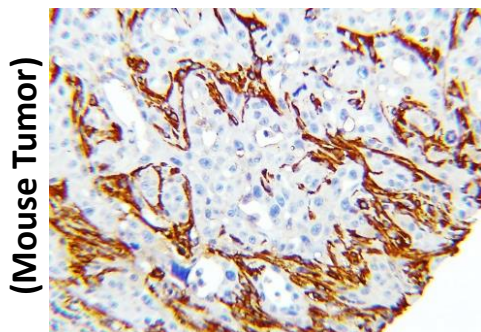
Histology, Cytology & Image Analysis



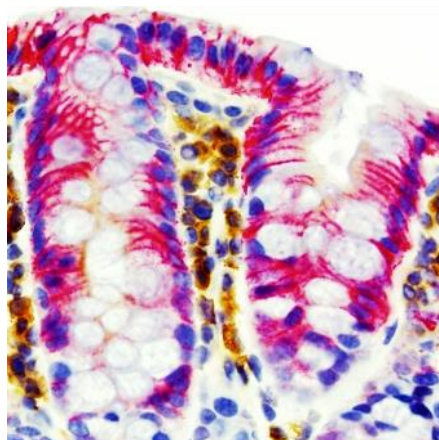
H&E Morphology



IHC HRP Fibroblasts M#1



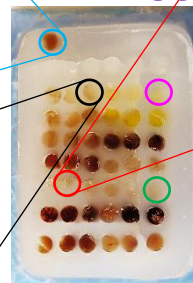
IHC HRP+AP Astrocytes M#1+ Astrocytes M#2 (enteric glia cells+Epithel)



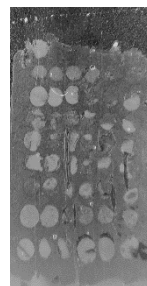
Multiple Tissues



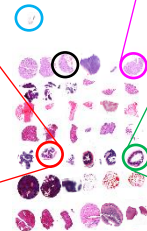
TMA Block



TMA Slide

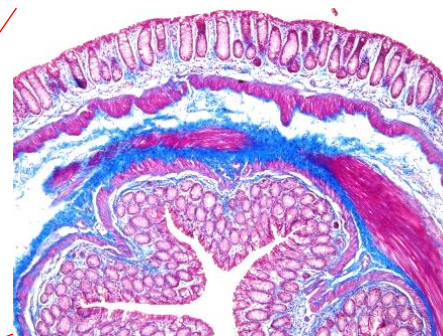


H&E Slide



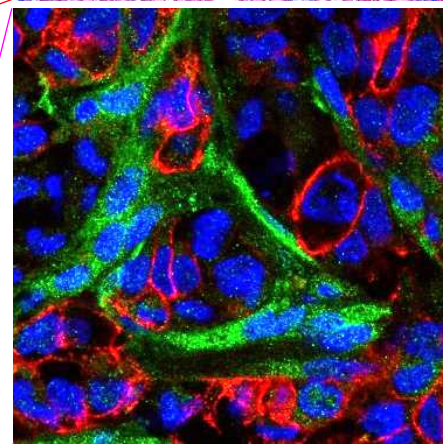
Routine stainings

Masson's Trichrome (Colon)

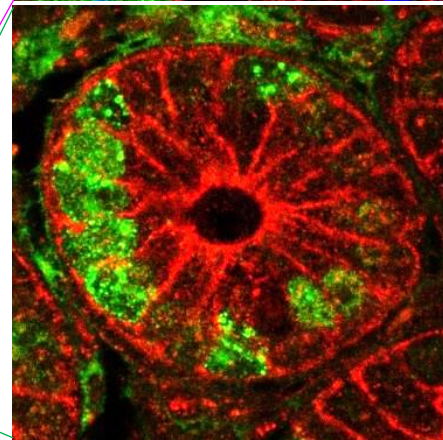


IHC Fluorescence

Fibroblasts M#1+ Fibroblasts M#3 (Xenograft Tumor)



Proliferation M#2+ Cell-cell adhesion (Small Intestine)

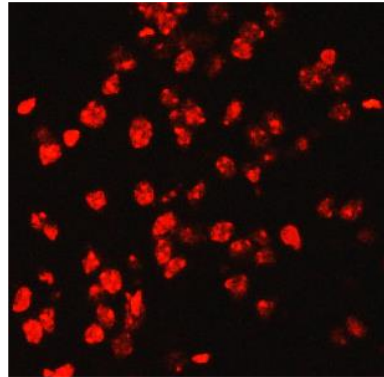


Histospeck now offers:

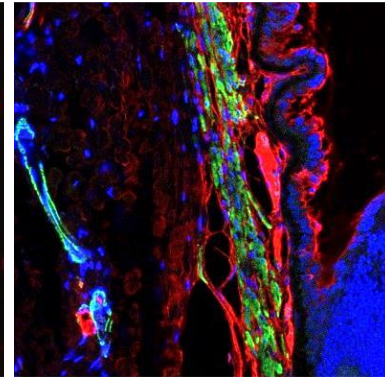
Detection of: injected drugs // antibodies //

labeled cells in tissue IHC services

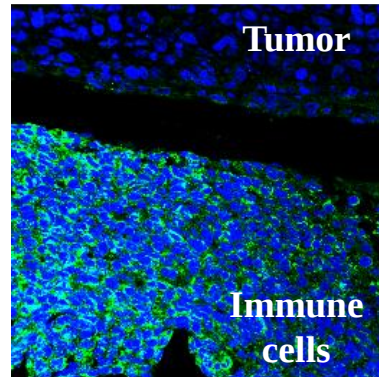
**Fluorescence labeled
Chemotherapy (In-vivo)**



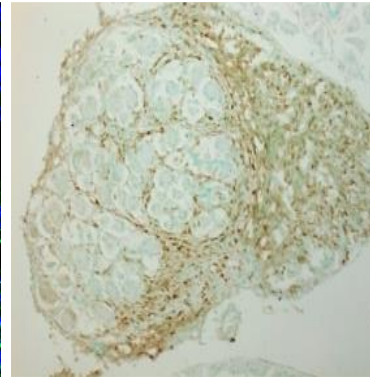
**Injected antibody, IgG,
(In-vivo)**



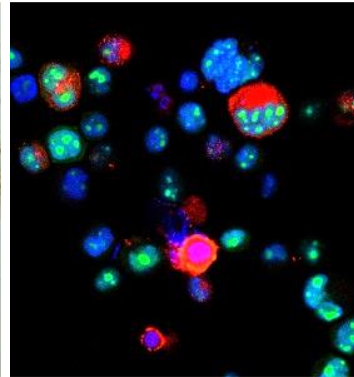
**mCherry labeled
immune cells (In-vivo)**



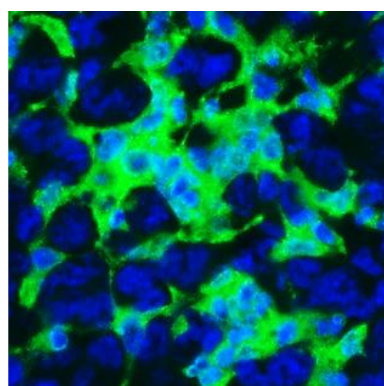
**mCherry labeled tumor
cells (In-vivo)**



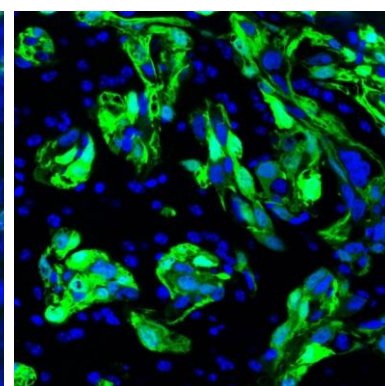
**GFP cells & mCherry
cells (In-vitro)**



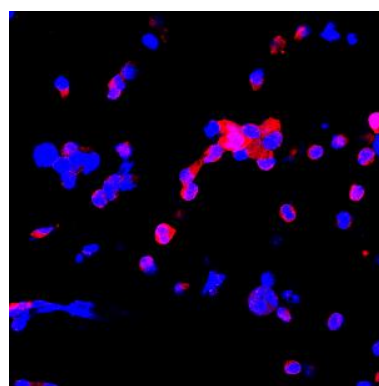
**GFP expressing
Stromal cells (In-vivo)**



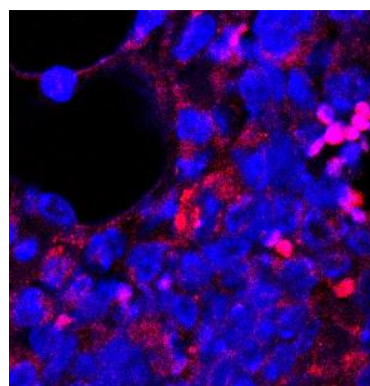
**GFP expressing
Tumor cells (In-vivo)**



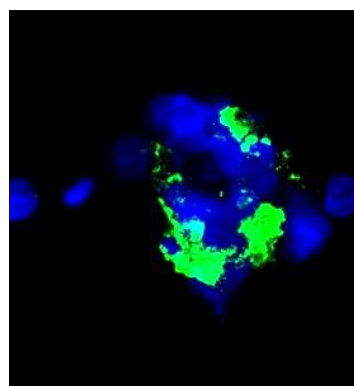
**Luciferase expressing
cells (In-vitro, CB)**



**HA expressing
hematopoietic cells (In-vivo)**



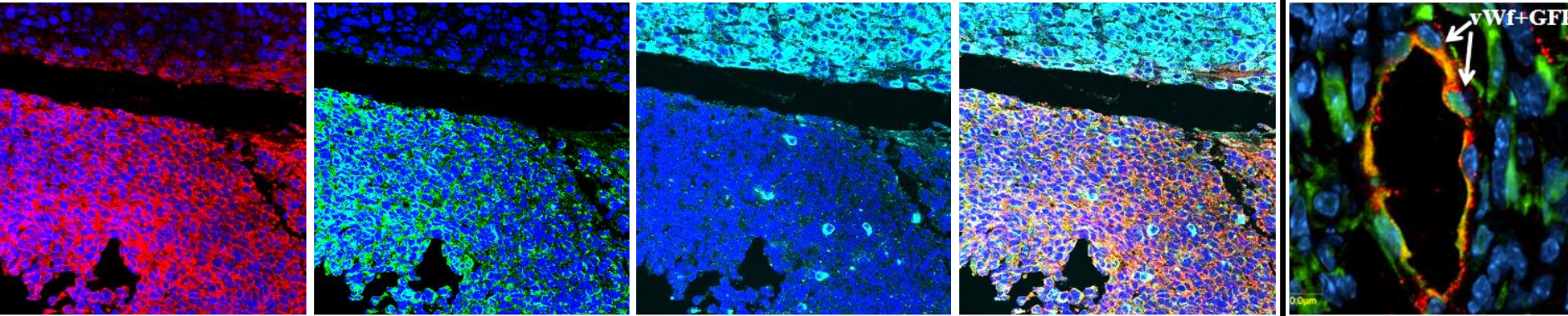
**FLAG expressing cells
(In-vitro)**



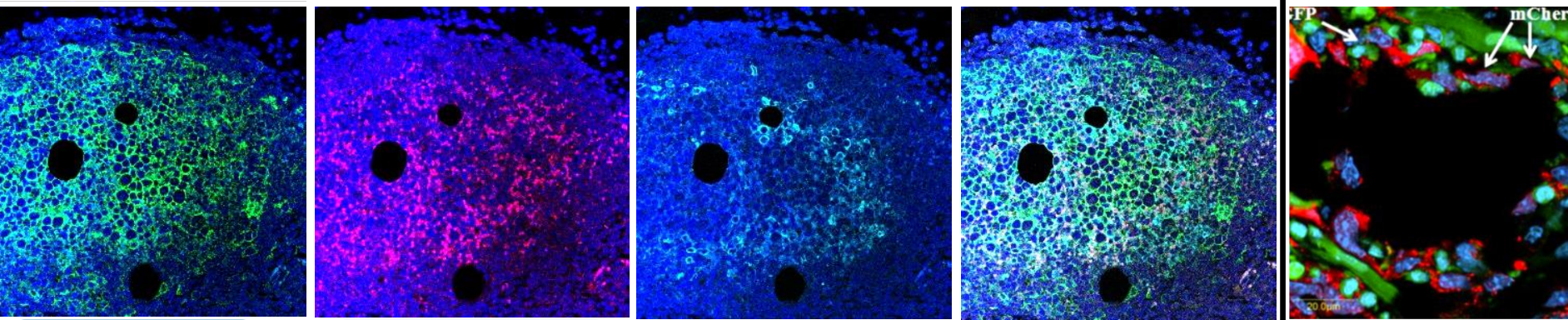
For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

Histospeck now offers:
Detection of: injected drugs // antibodies //
labeled cells in tissue IHC services

Hematopoietic cells Marker #1	mCherry labeled hematopoietic cells	Breast cancer marker	Merged+DAPI	GFP mouse model- (Chimeric BV)
---	---	--------------------------------	-------------	--



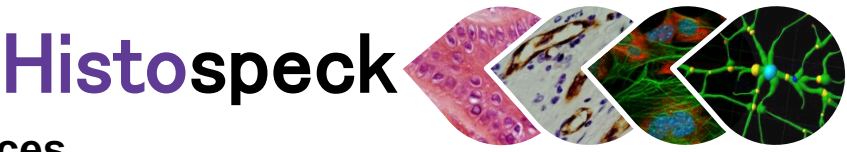
Hematopoietic cells Marker #2	HA expressing hematopoietic cells	Breast cancer marker	Merged+DAPI	mCherry tumor in GFP mouse
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For details:
Dr. Itay Spektor
☎ +972-50-4690708
✉ Itay@histospeck.com
🌐 www.histospeck.com

Histology, **Cytology,
Image Analysis &
Scientific
Consultation
Services**

Histospeck now offers:



Detection of: Tumor/ Cancer cells *in-vivo* IHC services

Tumor labeled markers

mCherry labeled tumor cells	GFP labeled tumor cells	mCherry tumor in GFP mouse	Viral marker #1 labeled Transformed cancer cells

Detecting proliferating tumor cells

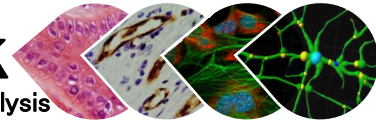
Proliferation Marker #2	
HCC	Glioblastoma

Tumor specific markers

HCC Marker	Melanoma Marker	Breast cancer marker

Human Tumor specific markers

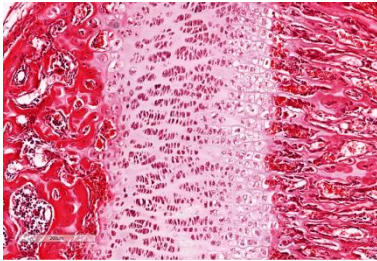
Fibroblasts M#1+ Hu cell Marker#1	Hu cell Marker#2 (Tumor)



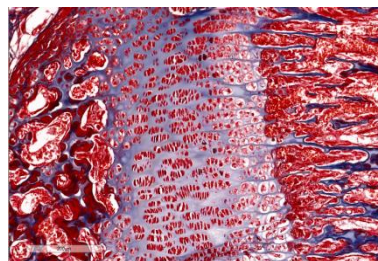
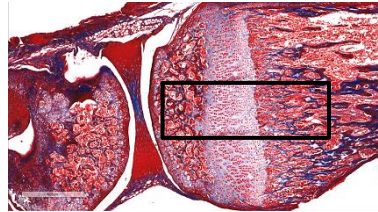
Histospeck now offers: **De-calcified Bone (+Cartilage) FFPE IHC services**

De-calcified Bone

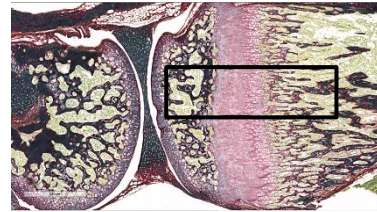
H&E
(Morphology)



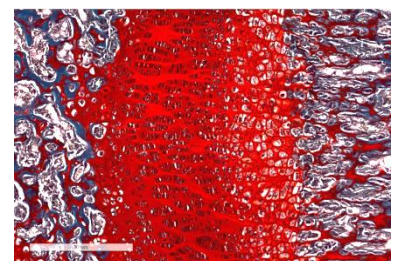
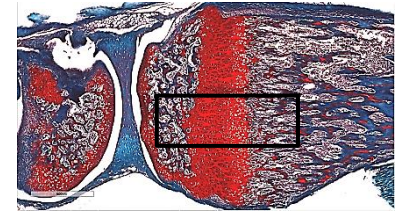
Masson Trichrome
(connective tissue)



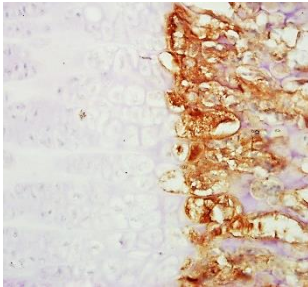
Picro Sirius Red
(collagen)



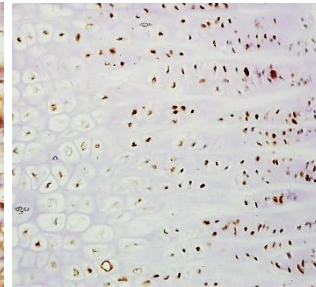
Cartilage (Safranin O)



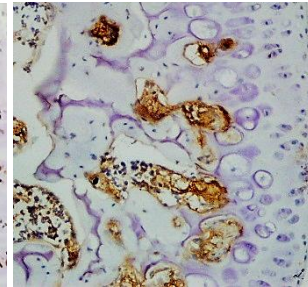
Fibroblasts M#1



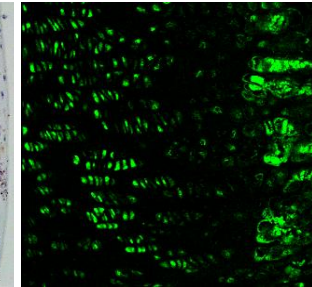
Proliferation Marker #2



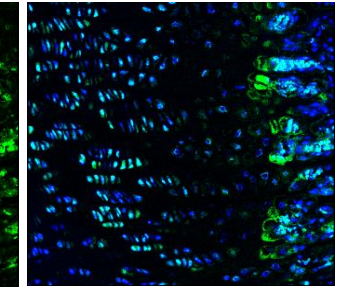
Endothel Marker #1



Proliferation Marker #2



Proliferation M#2+DAPI

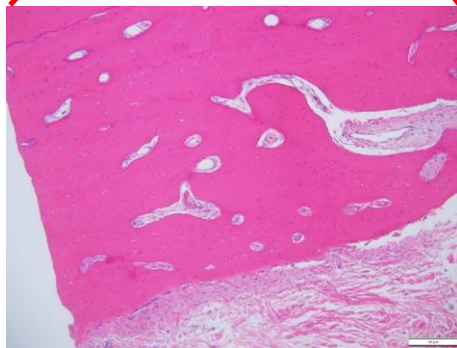
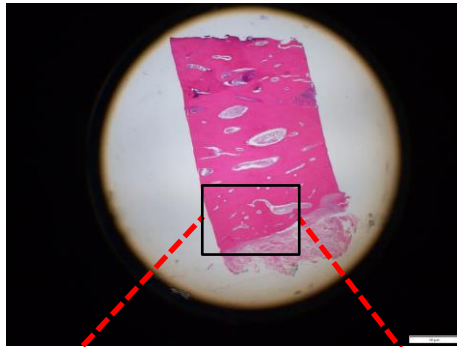


For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

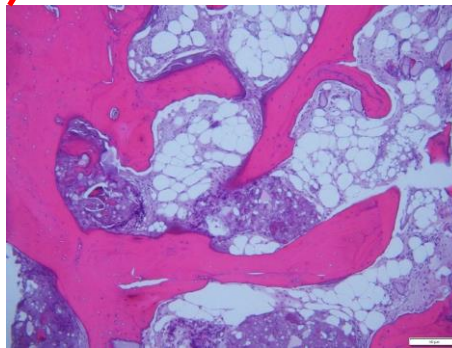
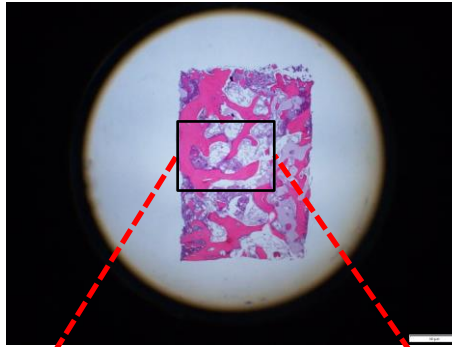
Histospeck now offers: **De-calcified Bone Implant FFPE Histology services**

De- Calcification Solutions (S)

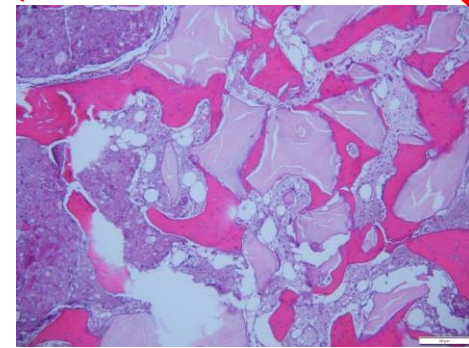
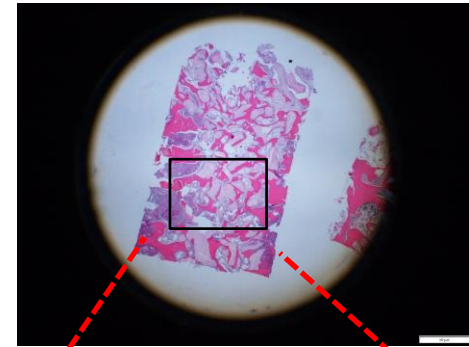
Solution #1



Solution #6



Solution #9



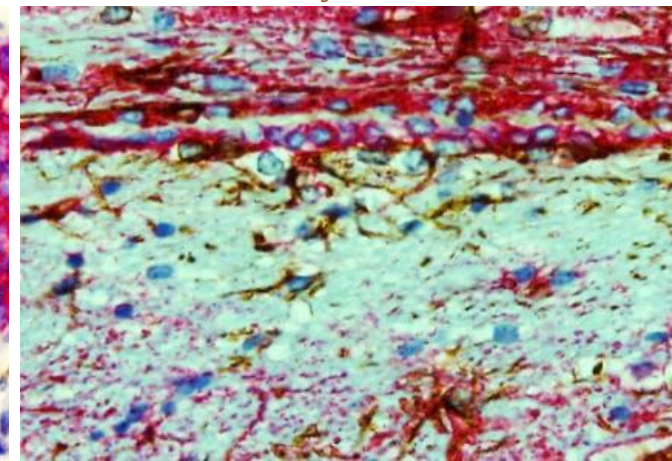
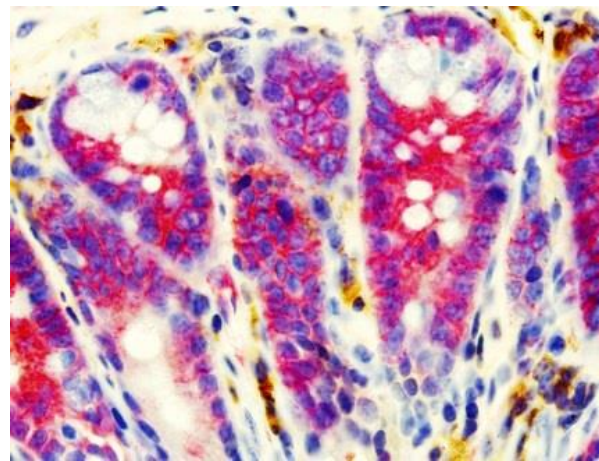
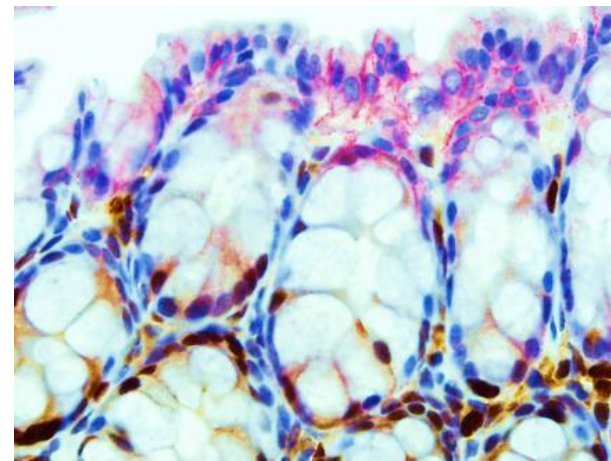
H&E

Histospeck now offers: **HRP/AP Multiplex IHC services**

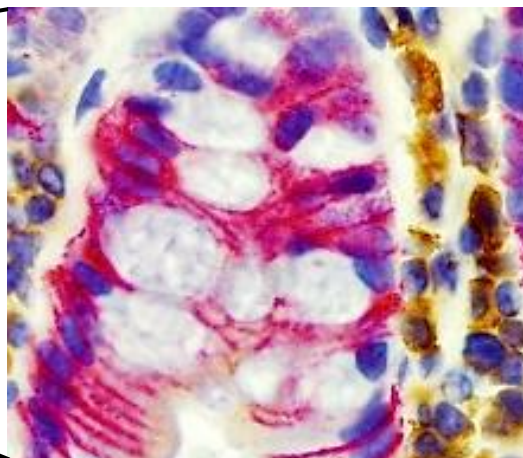
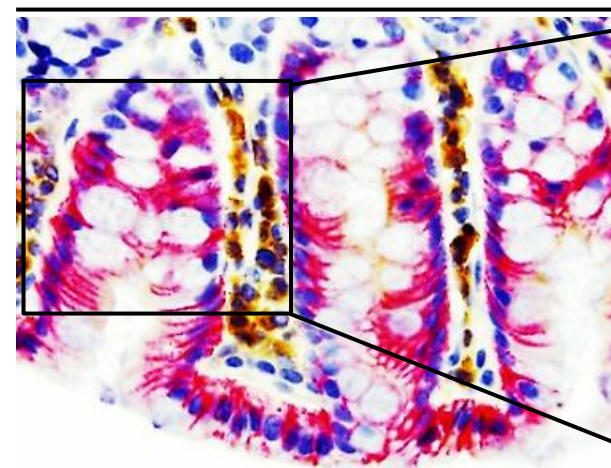
Proliferation M#2+ Cell-cell adhesion

Enteric glia cells+ Epithel

**Astrocytes M#2 (perimicrovessel astrocyte)+
Astrocytes M#1**



**Astrocytes M#1 (Enteric glia cells)+
Astrocytes M#2 (colon)**



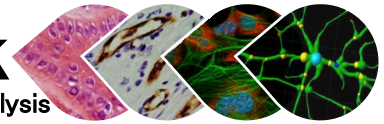
**HRP/AP Multiplex
Immunohistochemistry- Benefits:**

- Enable use of **multiple antibodies markers labeling** in non-fluorescence immunostaining **on same slide.**

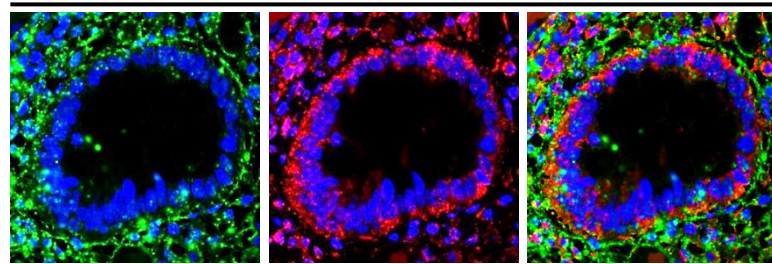
Histospeck now offers: **OPAL Multiplex IHC services**

Histospeck

Histology, Cytology & Image Analysis



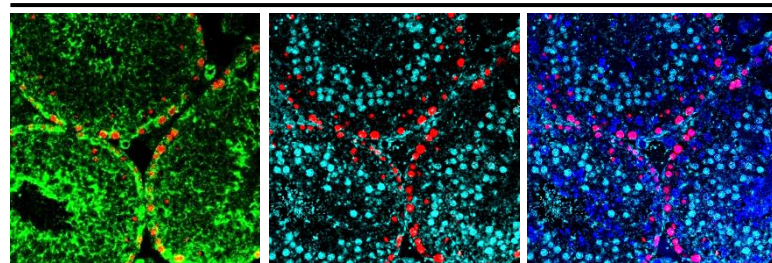
Colon- **Astrocytes Marker #2** + **ECM Marker#2**



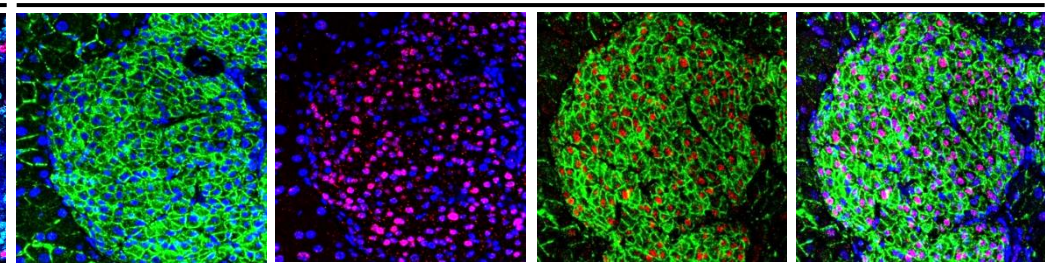
OPAL Multiplex Immunohistochemistry- Benefits:

- Enable use of **multiple antibodies raised in the same species** (i.e. anti Mouse +anti Mouse +anti Mouse).
- Upto **six markers** labeling **on same slide**.

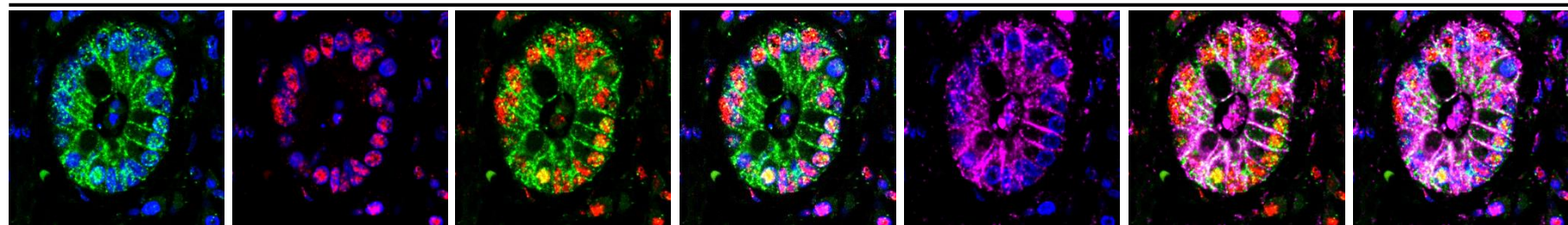
Testis- **Cell-cell Adhesion**+**DS DNA Damage**+ **ECM**



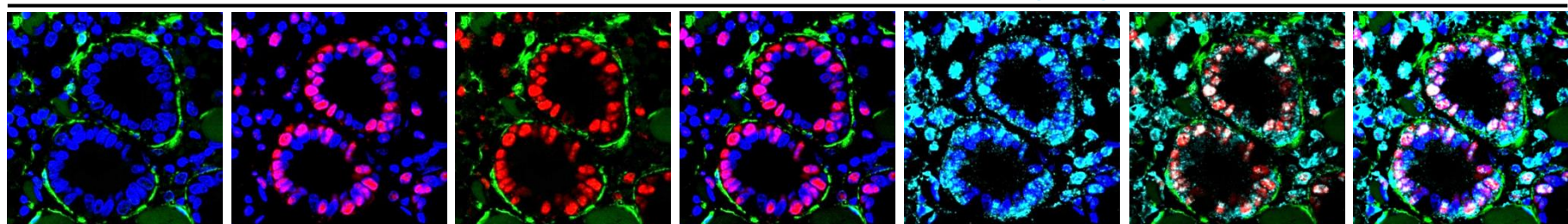
Pancreas- **Cell-cell Adhesion**+ **DS DNA Damage**



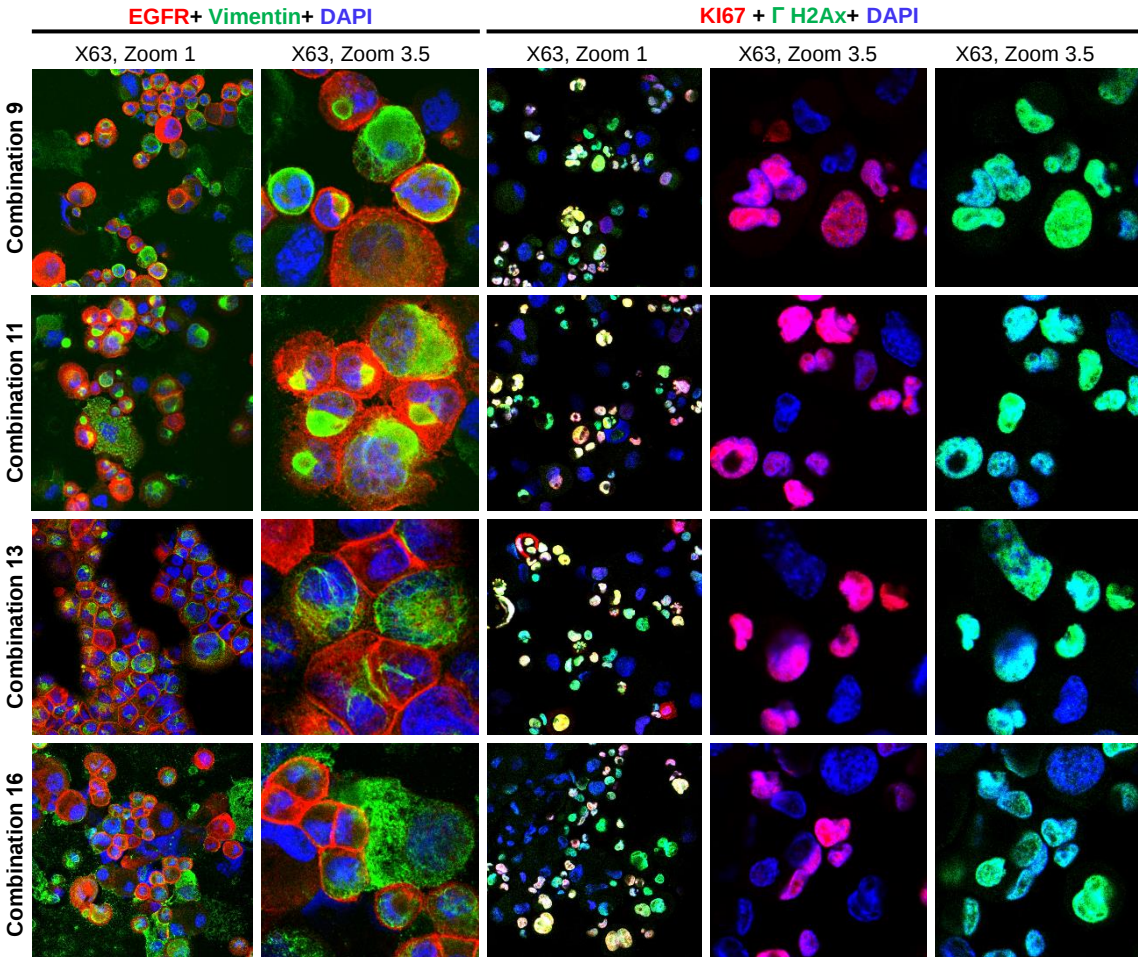
Colon- **Cell-cell Adhesion**+**DS DNA breaks repair Marker#1**+ **Epithel marker #4**



Colon- **Fibroblasts M#1**+ **Proliferation M#2**+ **Cell signaling M#1**



Histospeck now offers
Calibrated immunocytochemistry (ICC) Fixations and Permeabilization
methods on cells & Cryosections



Combination	Fixation 1	Fixation 2	Permeabilization	Signal			
				Membrane	Cytoplasm	Nuclei	
				EGFR	Vimentin	KI67	p-̳H2Ax
.1	Solution A1	Solution A3	Solution B2	+++	++	++	+
.2	Solution A1	Solution C	Solution F	+++	-	++	+
.3	Solution A1	Solution D	Solution B2	++	+	++	+
.4	Solution A2	Solution A3	Solution B2	++++	+	+	-
.5	Solution A2	Solution C	Solution B2	++++	++	+	-
.6	Solution A2	Solution D	Solution B2	++++	++	++	+
.7	Solution F	Solution A3	Solution F	++	+	++++	+++
.8	Solution F	Solution A3	Solution E1	++	+++	++++	+++
.9	Solution F	Solution A3	Solution E2	+++	+++	++++	++++
.10	Solution F	Solution A3	Solution B1	++	++	++++	+++
.11	Solution F	Solution A3	Solution B2	+++	++++	++++	++++
.12	Solution F	Solution A3	Solution B3	++	++	++++	++++
.13	Solution F	Solution C	Solution F	++++	++	++++	++++
.14	Solution F	Solution C	Solution E1	+++	++	++	+++
.15	Solution F	Solution C	Solution E2	+++	+	++	++
.16	Solution F	Solution C	Solution B1	++++	++	+++	++++
.17	Solution F	Solution C	Solution B2	+++	+	++	+++
.18	Solution F	Solution C	Solution B3	++++	++	+++	++++
.19	Solution F	Solution D	Solution F	+	+++	++++	++
.20	Solution F	Solution D	Solution E1	+	+++	++++	++++
.21	Solution F	Solution D	Solution E2	+	+++	+	++++
.22	Solution F	Solution D	Solution B1	+	+++	+++	++++
.23	Solution F	Solution D	Solution B2	+	+++	++	+++
.24	Solution F	Solution D	Solution B3	++	+++	++	+++

For details: Dr. Itay Spektor

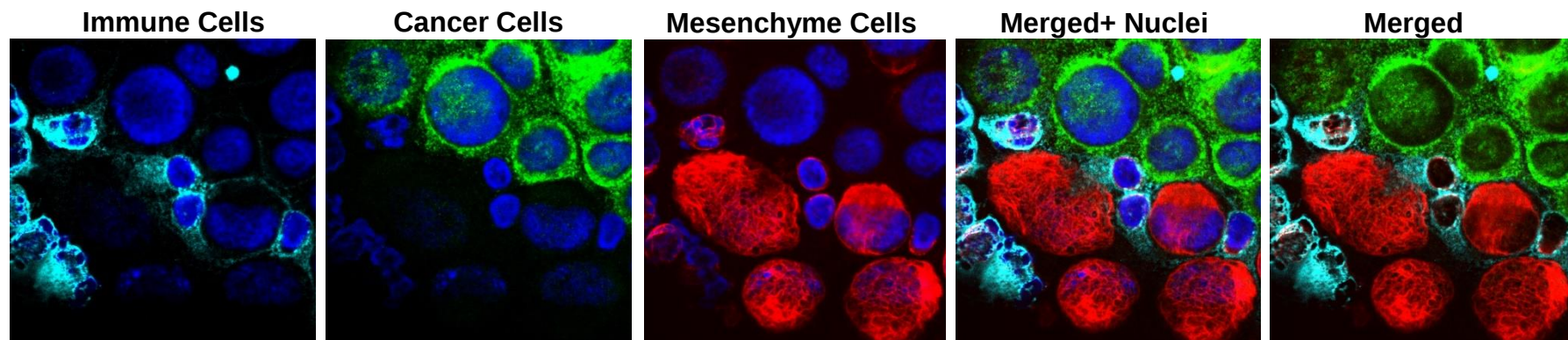
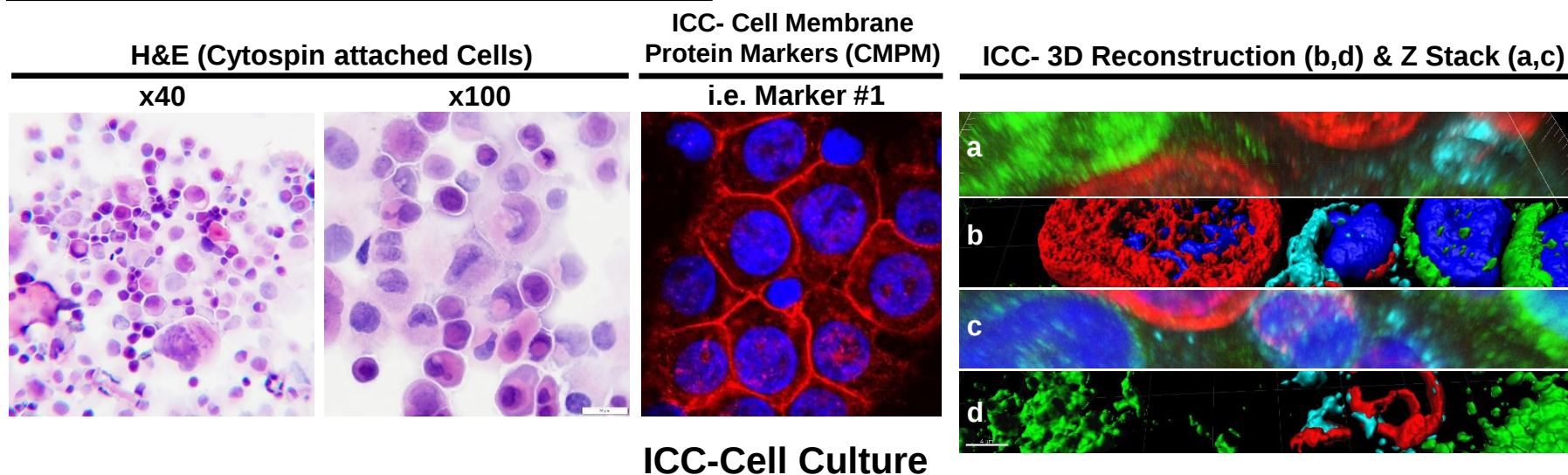
+972-50-4690708

Itay@histospeck.com

www.histospeck.com

Histospeck now offers:

Calibrated Cytospin Panel: H&E and ICC (Immunocytochemistry) services

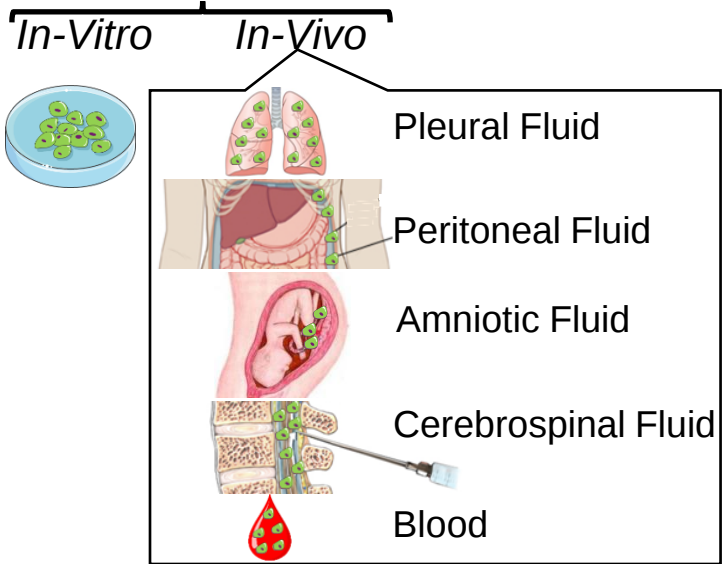


For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

Histospeck now offers:
CytoTime- Novel developed Method for Body Fluids cells
and cell culture Preservation, ICC and Histology



Experiment



Dilute cells in
Histospeck's
 protective solution

Shipment to Histospeck

Processing-
 Histospeck's
 developed reagents

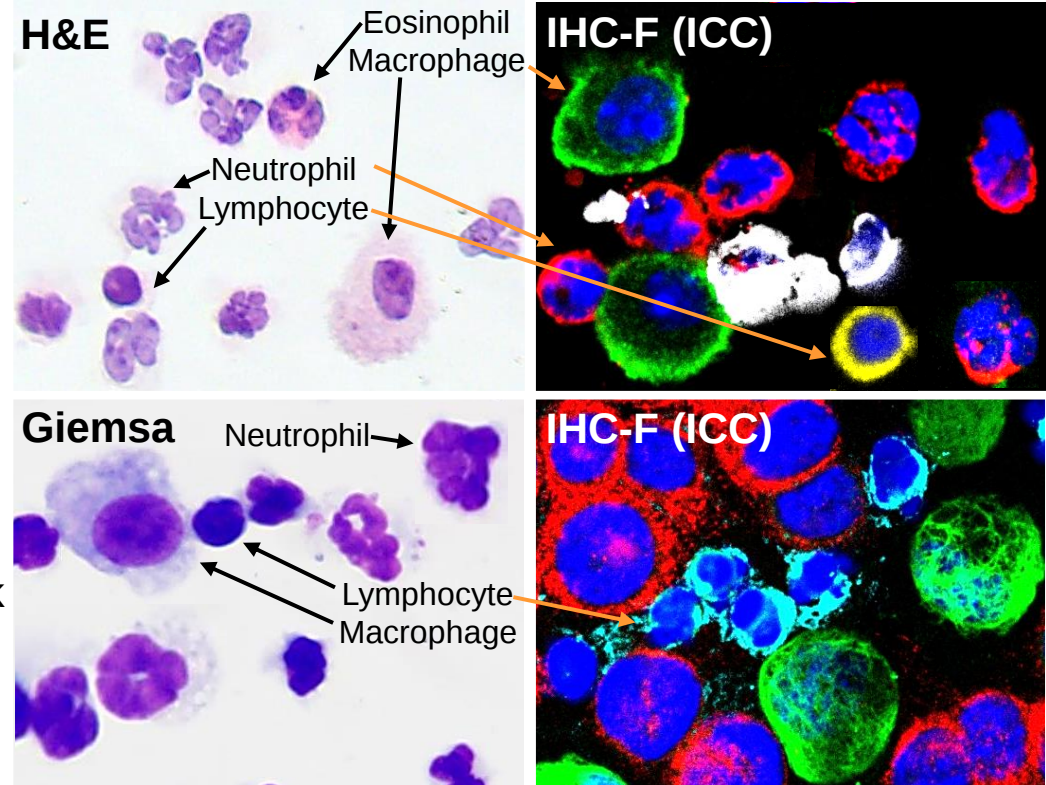
Histology/ICC

Histospeck's **CytoTime** method **Advantages:**

- 🕒 Enable **Long storage time of cells** before attaching to slide.
- 🌐 OPTIMAL Histology/ ICC¹ protein signal following cell attachment to slide.
- 🔍 Optimized Fixation & Permeabilization methods for "**M,CP,N,CS**"² proteins.

¹ICC- Immunocytochemistry

²Membrane, Cytoplasm, Nuclei, Cytoskeleton (**M,CP,N,CS**) proteins.



+ Immune structure; Lymphocytes

Neutrophils + Macrophages

Cancer; Fibroblasts;

Lymphocytes

For details: **Dr. Itay Spektor** ✉ Itay@histospeck.com

☎ +972-50-4690708

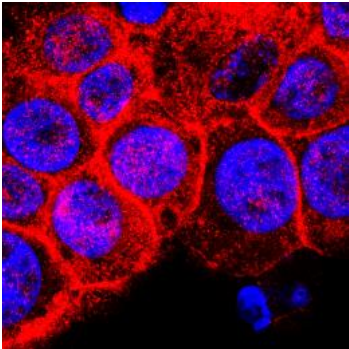
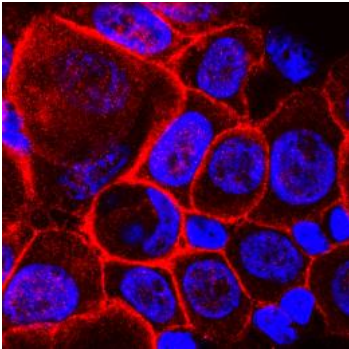
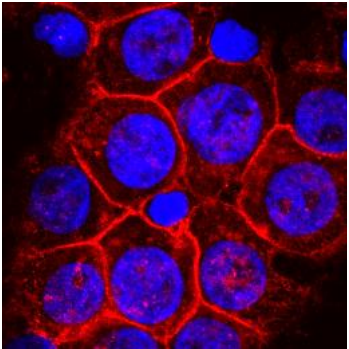
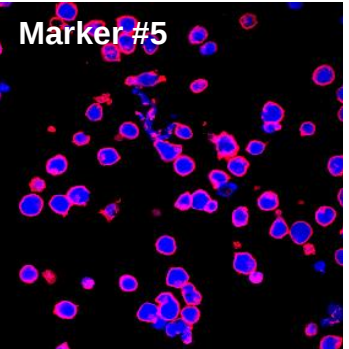
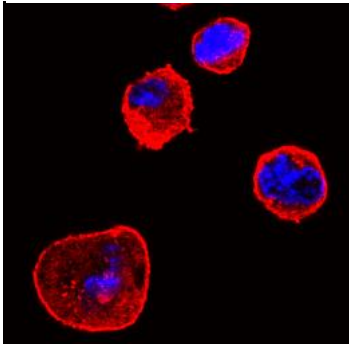
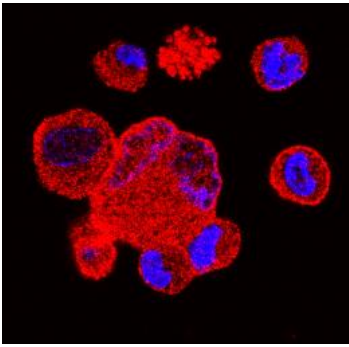
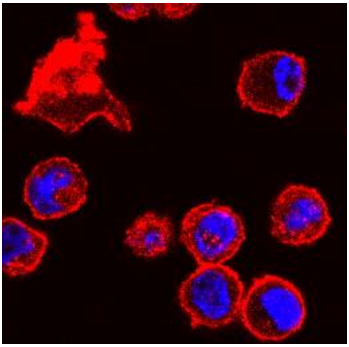
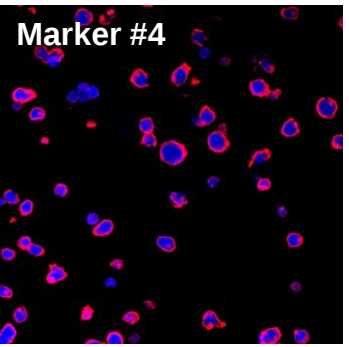
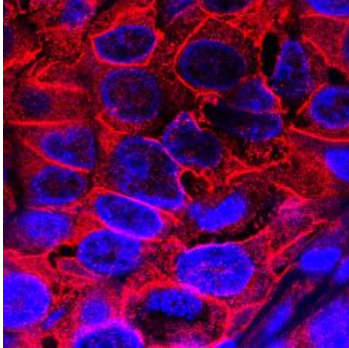
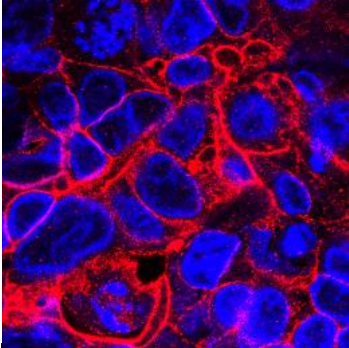
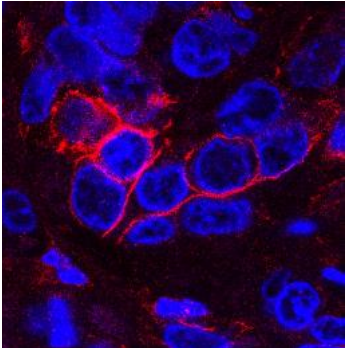
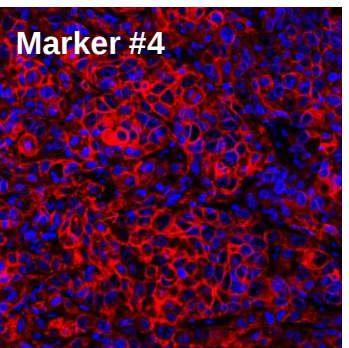
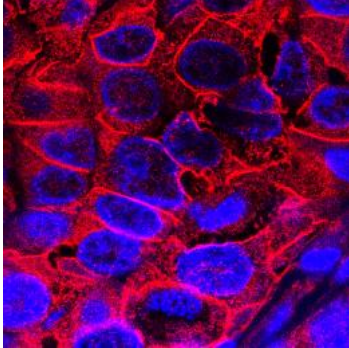
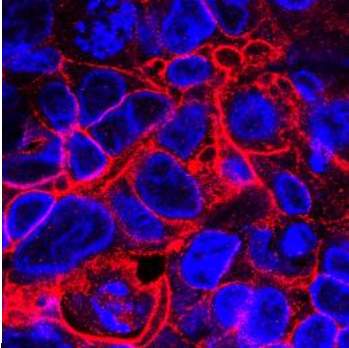
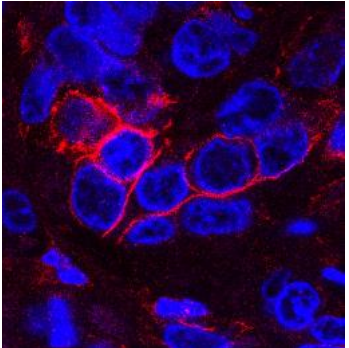
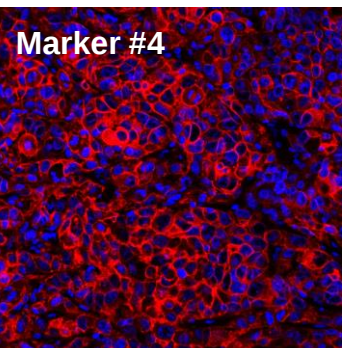
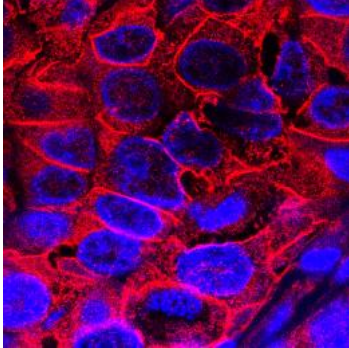
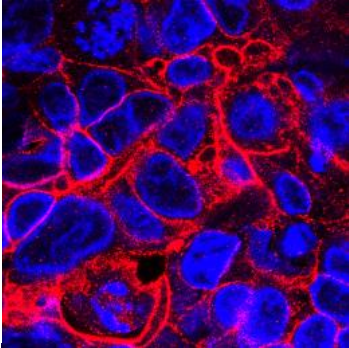
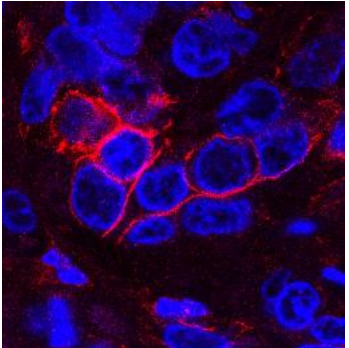
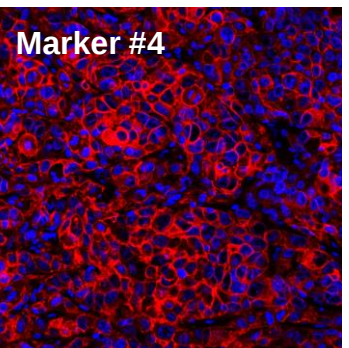
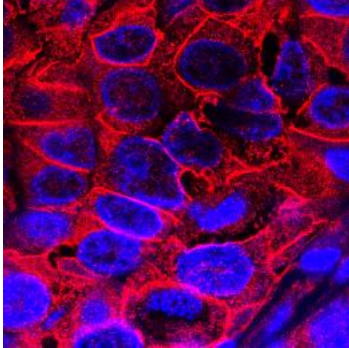
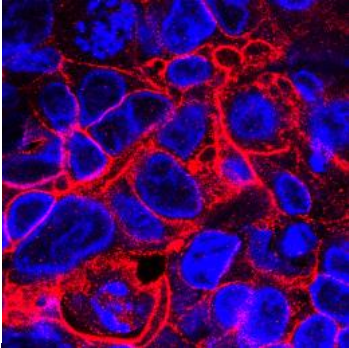
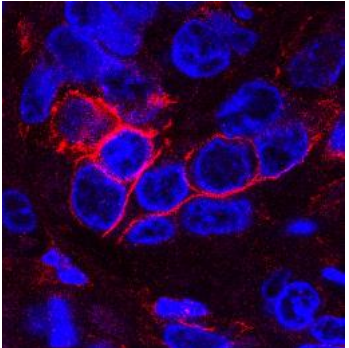
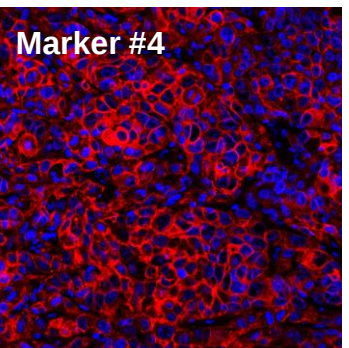
🌐 www.histospeck.com

Histospeck now offers:

Calibrated **Membrane Markers** for **ICC** (Immunocytochemistry)
and **IHC-P** (Immunohistochemistry Paraffin) services

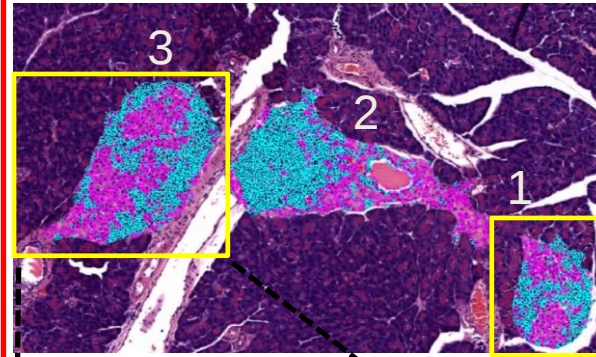
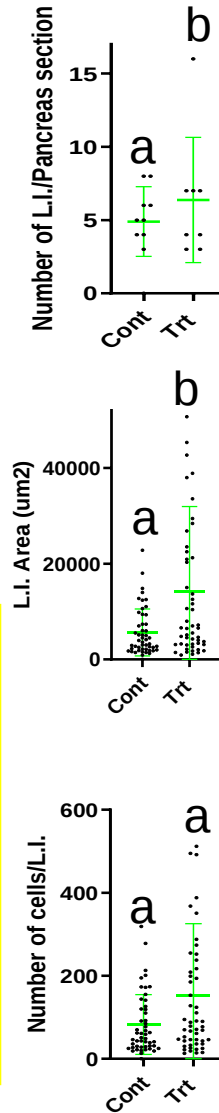
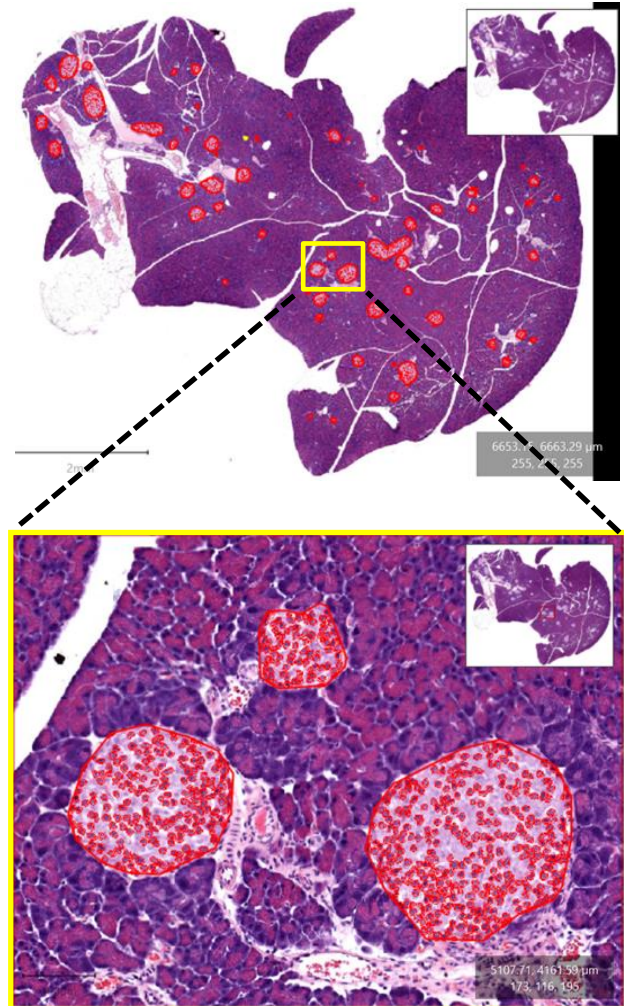
Cell Membrane Protein Markers (CMPM)

22

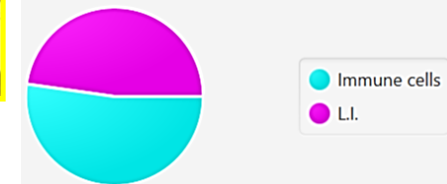
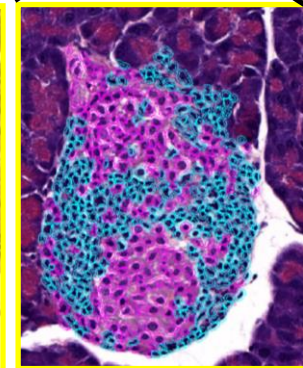
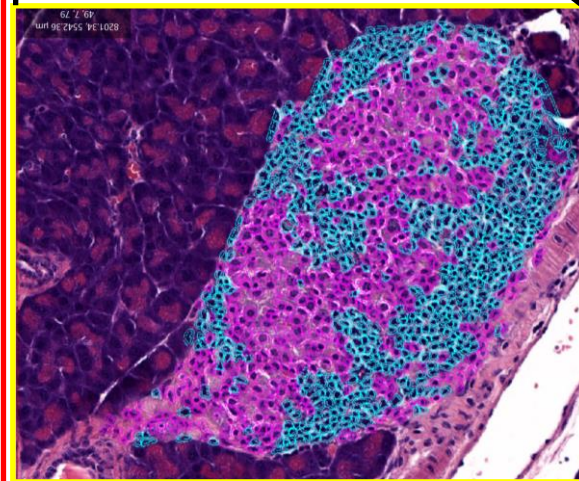
		Marker #1	Marker #2	Marker #3	Marker #4+5	Marker #6
ICC Cell Culture						Histology, Cytology, Image Analysis & Scientific Consultation Services
						
						
IHC-Paraffin Tissue (tumor)						For details: Dr. Itay Spektor 📞 +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com
						
						

Histospeck now offers: **Machine Learning based H&E image Analysis services**

(example: **Pancreas+**
Islets of Langerhans)



L.I. #	1	2	3
Num Cells/ROI	541	1308	1438
Num Immune cells/ROI	320	764	955
Num L.I. cells/ROI	221	544	483
Area μm^2	39957	95655	101191
Perimeter μm	811	1288	1886



Histospeck now offers: **Machine Learning based H&E image Analysis services**

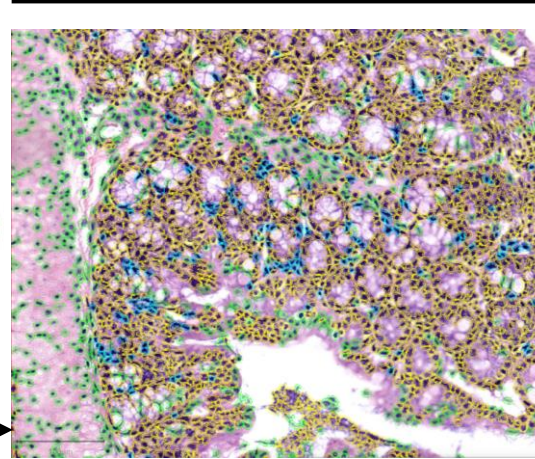
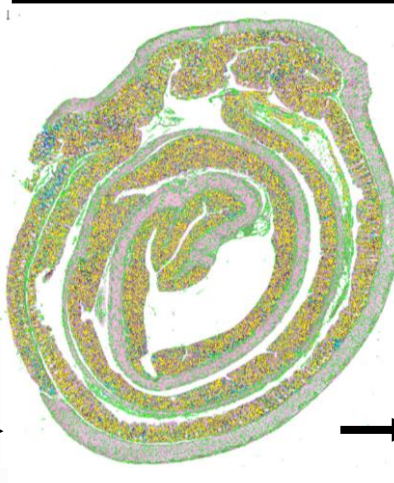
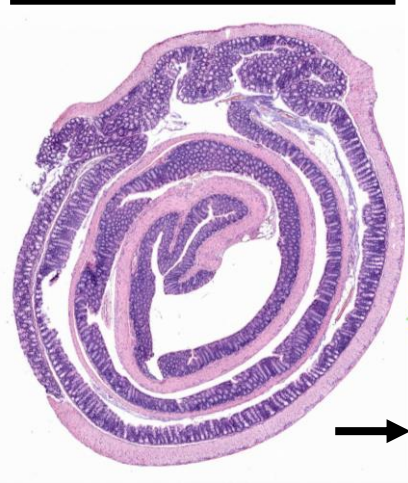
(example: **Colitis model**)

H&E

Machine learning IA

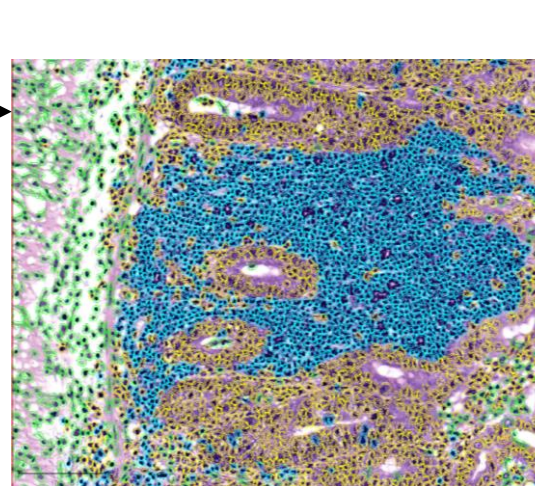
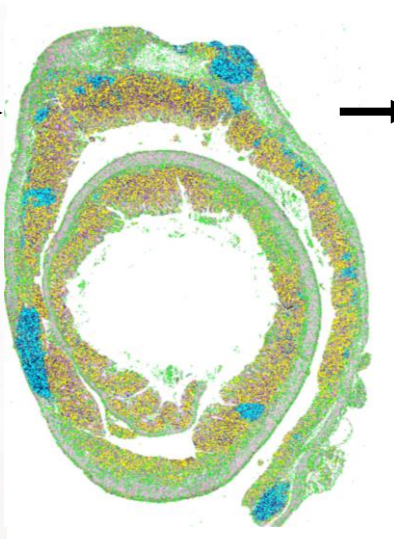
Machine learning (zoom 7.11x)

Control



	Num cells/ROI	
Parameter	Control	Inflamed
Total Cells	96205	186993
Immune cells	6472	28679
Epithelia cells	56872	94252
Muscle & Stroma cells	32861	64062
Area μm^2	20940389	35995048
Perimeter μm	18328	24302

Inflamed (Colitis)

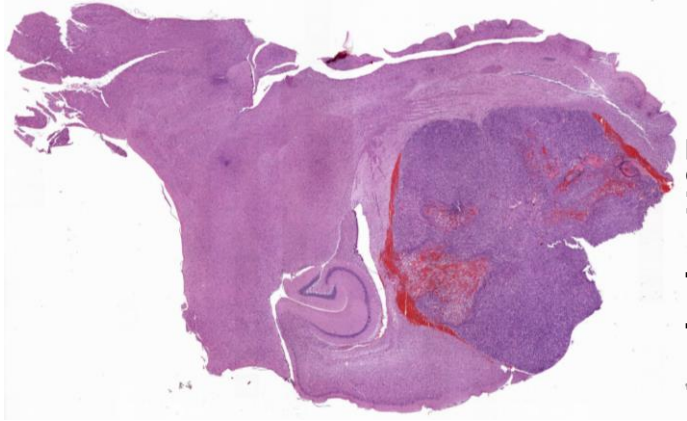


	% cells/total cells	
Parameter	Control	Inflamed
% Immune cells	67.27%	15.33%
% Epithelia cells	59.11%	50.40%
% Muscle & Stroma cells	34.15%	34.25%

Histospeck now offers: **Machine Learning based H&E image Analysis services**

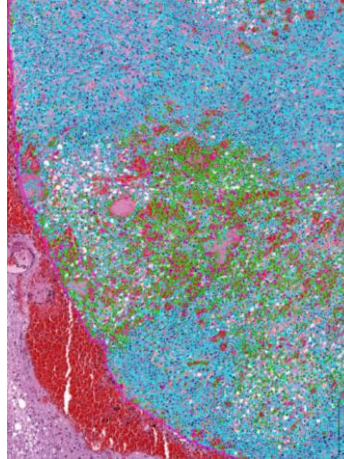
(example: **Tumor**)

Tumor H&E scan

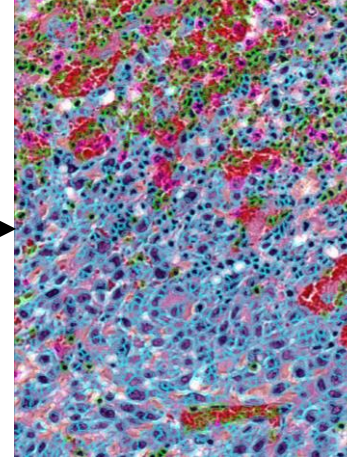


Analysis+ H&E

Zoom 2.26x

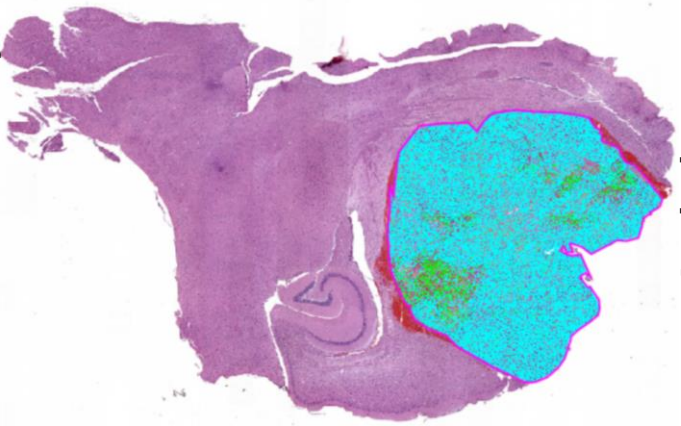


Zoom 11.11x

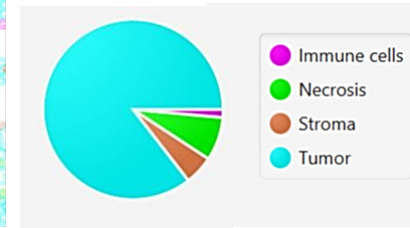
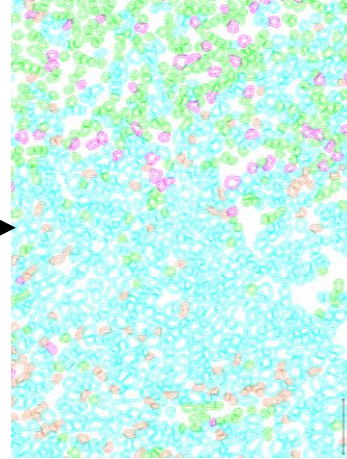
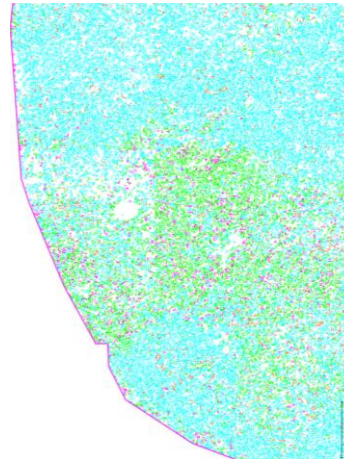


Glioblastoma (tumor)		
Cell Type	Num Cells/section	% Cells/section
Total cells	176149	
Tumor cells	153223	86.98%
Immune cells	1539	0.87%
Necrotic cells	12110	6.87%
Stroma cells	9277	5.26%
Area μm^2		
Perimeter μm	811	

Tumor H&E scan + Analysis



Analysis

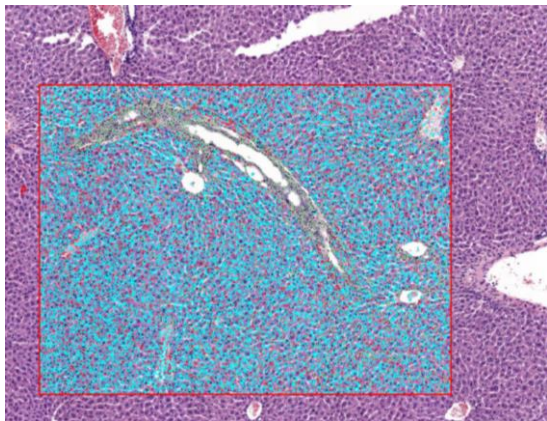


Histospeck now offers: **Machine Learning based H&E image Analysis services**

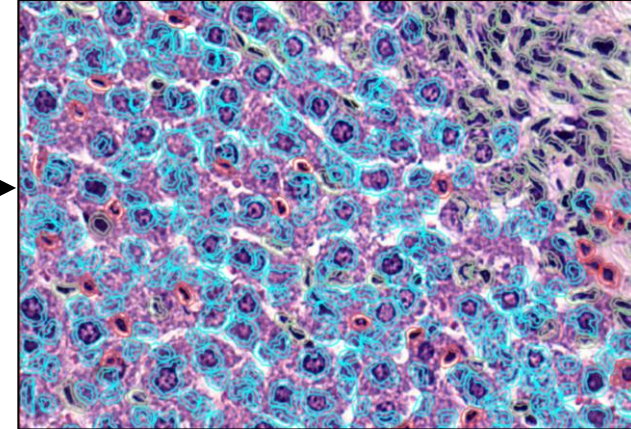
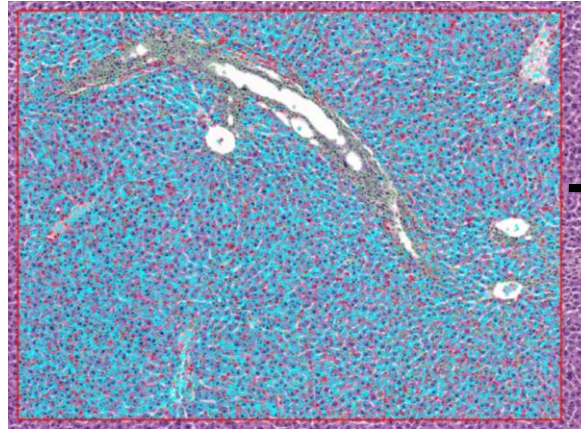
(example: **Liver**)

Zoom in

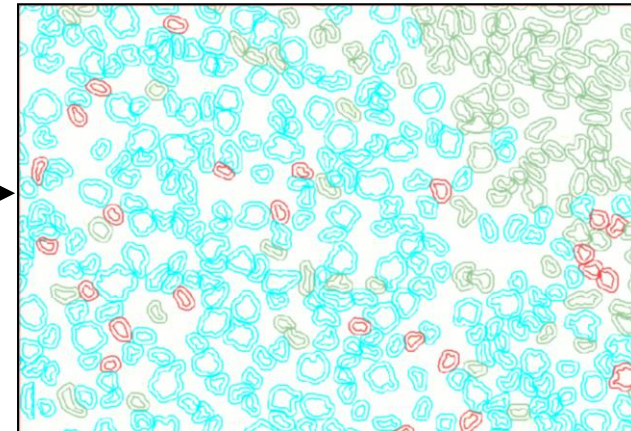
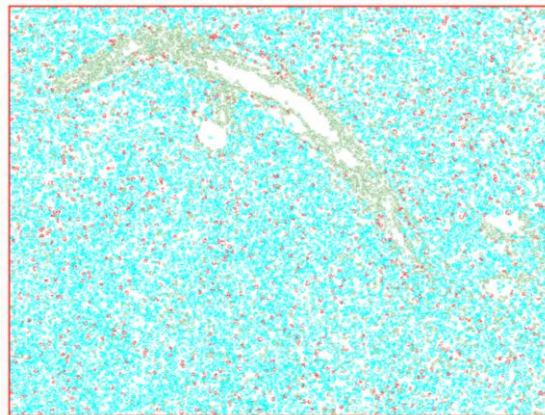
Liver H&E scan + Analysis



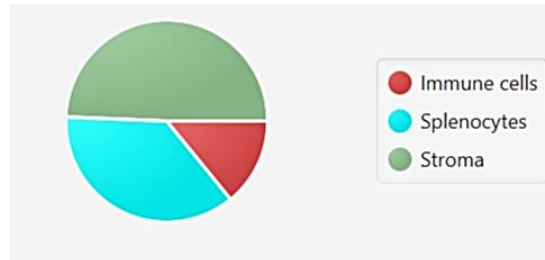
Liver H&E + Analysis



Analysis



Parameter	Num cells/ROI
Total Cells	11335
Splenocytes	7914
Immune cells	887
Stroma cells	2534
Area μm^2	1556373.2
Perimeter μm	5041.1



For details: Dr. Itay Spektor



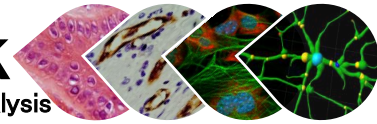
+972-50-4690708



Itay@histospeck.com

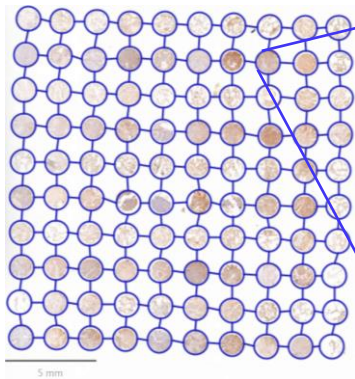


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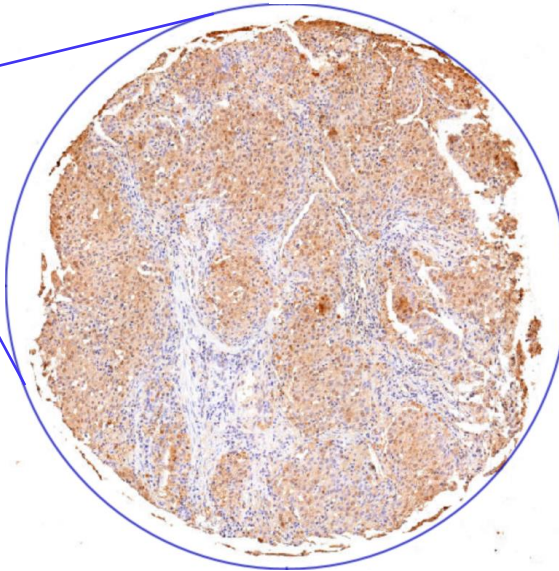


Histospeck now offers: Machine learning based TMA IHC-HRP Image Analysis services

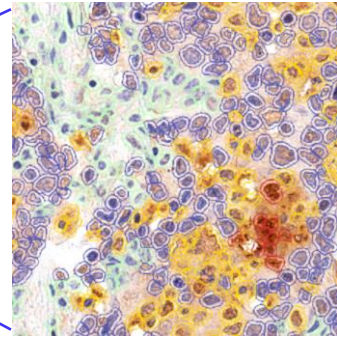
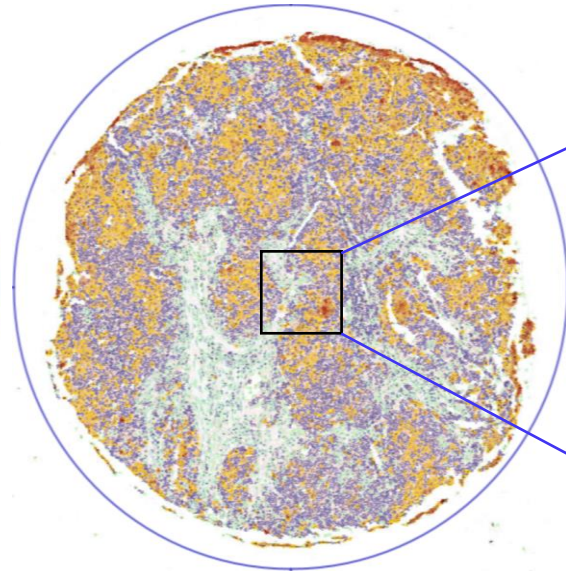
Tissue Microarray (TMA)



Original Core: HRP immunostaining



AI based Analysis



Quantitative Image Analysis- Summary

Tumor cell analysis

Num Tumor	10908
Num Tumor: 1+	3864
Num Tumor: 2+	451
Num Tumor: 3+	208
Num Tumor: Negative	6385
Tumor: Positive %	41.46

Stroma cell analysis

Num Stroma	2953
Num Stroma: 1+	13
Num Stroma: 2+	4
Num Stroma: Negative	2936
Stroma: Positive %	0.5757

For details:

Dr. Itay Spektor

+972-50-4690708

Itay@histospeck.com

www.histospeck.com

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Image+Analysis

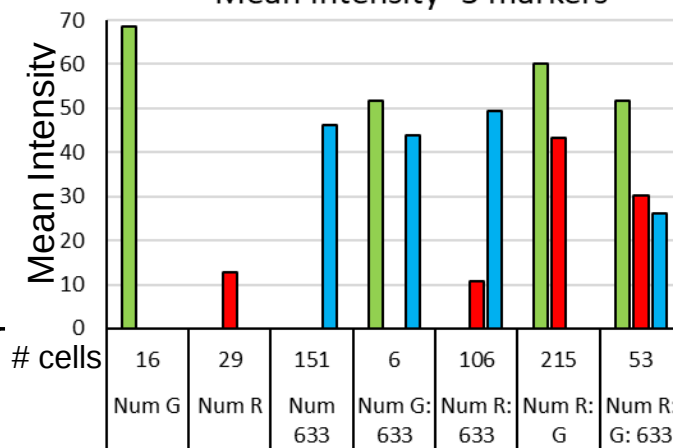
Analysis

Intensity Analysis

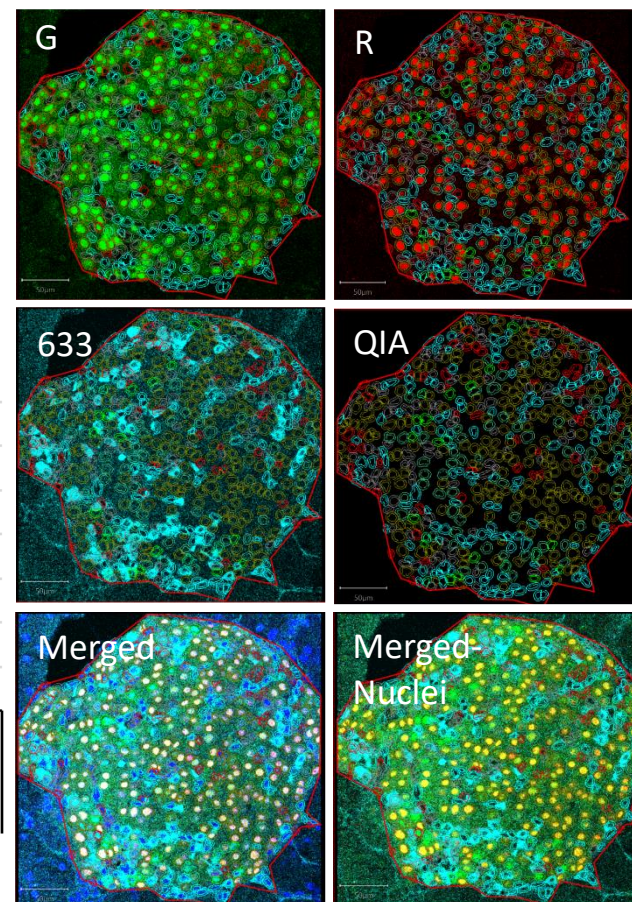
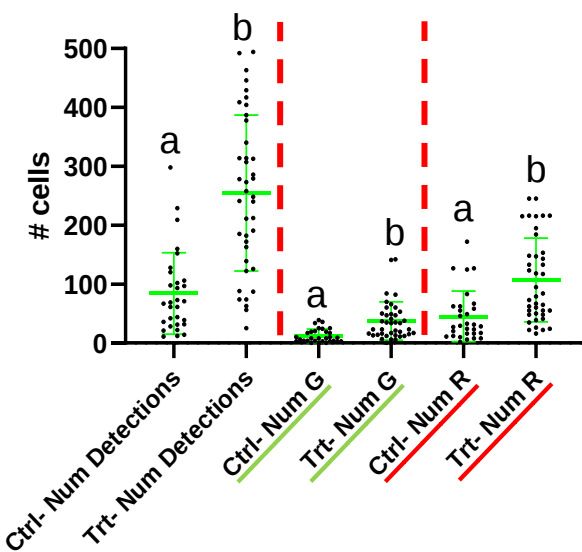
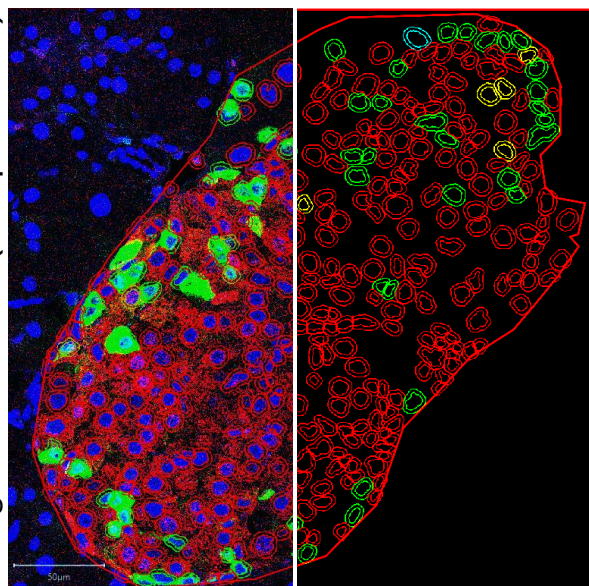
	Num G	Num R	Num 633	Num G: 633	Num R: 633	Num R: G	Num R: G: 633
Number of cells/L.I.	16	29	151	6	106	215	53
Mean Intensity (G)	68.58			51.82		60.01	51.73
Mean Intensity (R)		12.76			10.73	43.29	30.19
Mean Intensity (633)			46.2	43.8	49.48		26.14

■ Mean Intensity (G)
■ Mean Intensity (R)
■ Mean Intensity (633)

Mean intensity- 3 markers



Langerhans Island (L.I., pancreas)



Histospeck now offers: **Machine learning based Image Analysis services**

Avg Distance between cell types

Distance in um to nearest	DAPI cell	G cell	R cell	633 cell	G: R cell	G: 633 cell	R: 633 cell	G: R: 633 cell
# cells	126	4	89	5	4	4	85	2
Total cells/field: 319								
DAPI cells	1.58	19.15	25.05	40.96	68.38	37.02	12.87	63.64
G cells	1.48	20.14	27.52	40.66	67.00	37.29	12.92	61.44
R cells	1.28	17.45	18.20	31.28	64.43	28.29	9.84	61.11
633 cells	1.30	17.32	19.00	23.74	39.86	38.74	5.61	69.25
G: R cells	2.28	18.33	19.67	30.84	63.63	45.03	9.41	63.76
G: 633 cells	0.12	30.55	16.29	42.48	75.43	67.59	16.83	62.46
R: 633 cells	1.22	18.12	24.48	39.13	63.47	39.67	11.25	53.14
G: R: 633 cells	0.16	28.24	35.77	57.99	62.53	23.12	16.82	146.56

Image+ Image Analysis

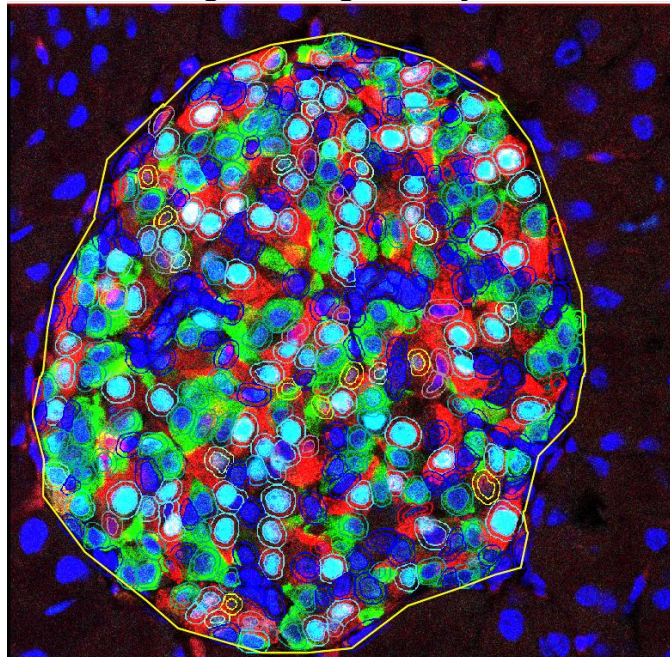
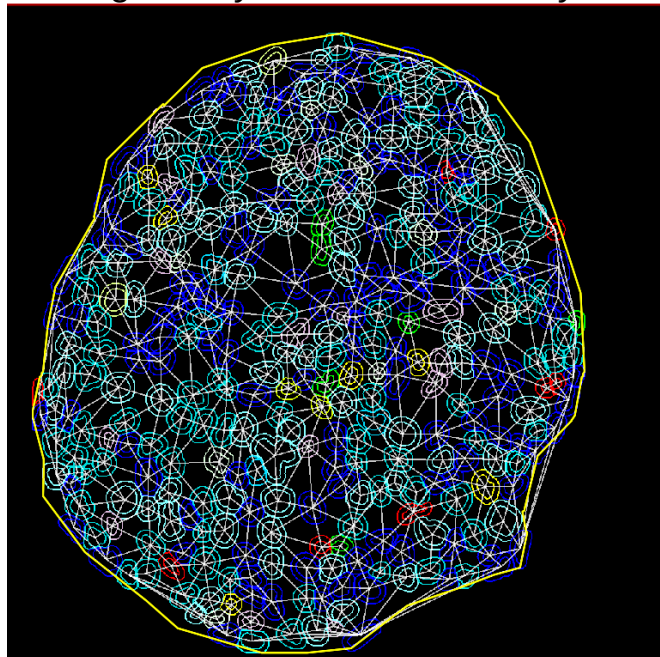


Image Analysis+ Distance Analysis



For details:

Dr. Itay Spektor

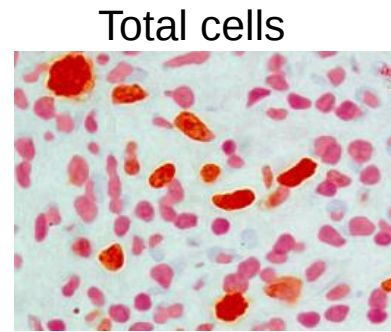
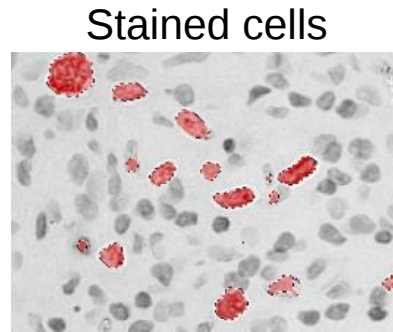
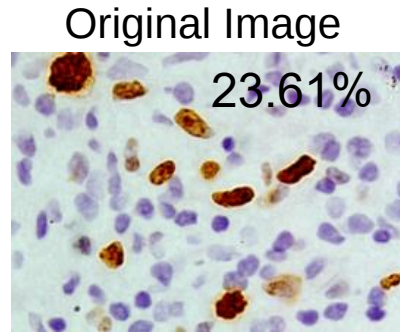
+972-50-4690708

Itay@histospeck.com

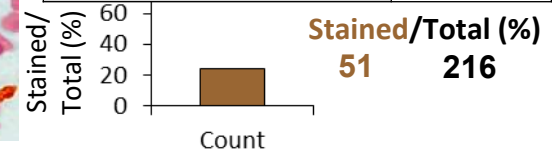
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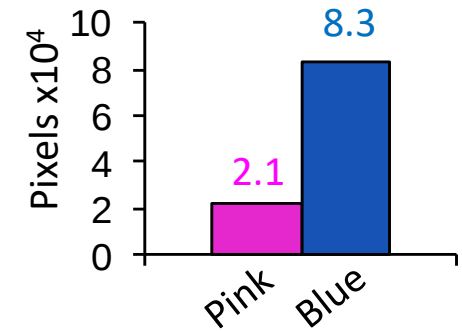
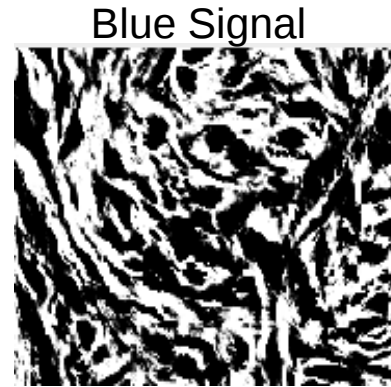
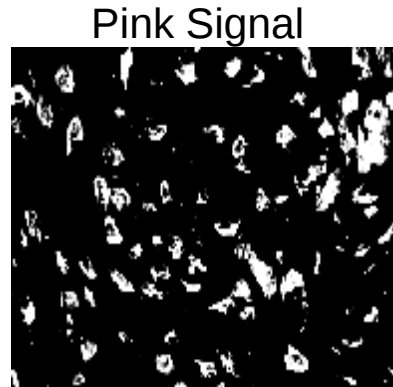
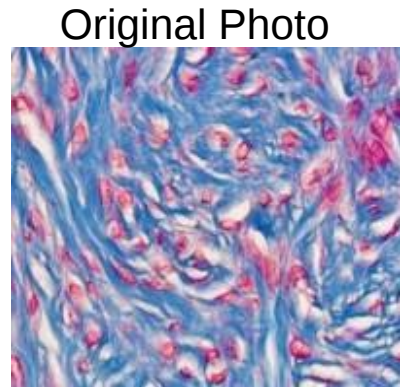
Count



Stained cells	51
Total cells	216
Stained/Total (%)	23.61

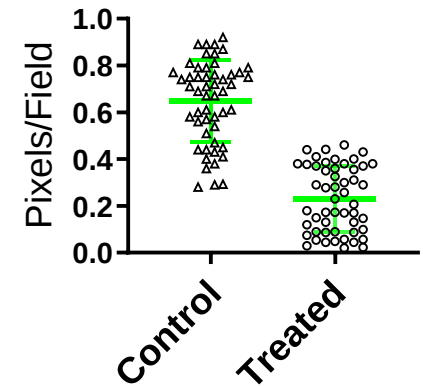
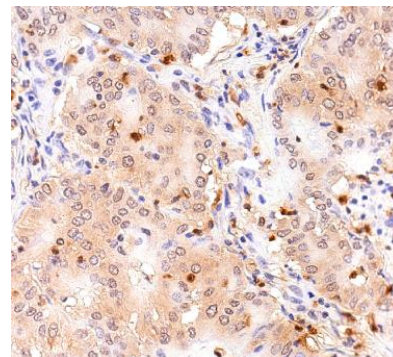
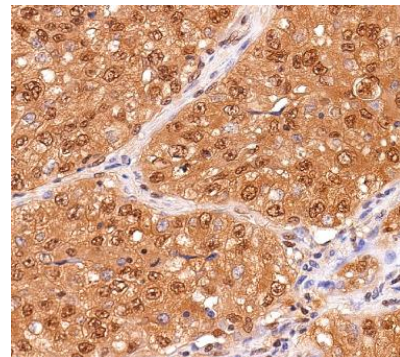


Signal/ Area



Control

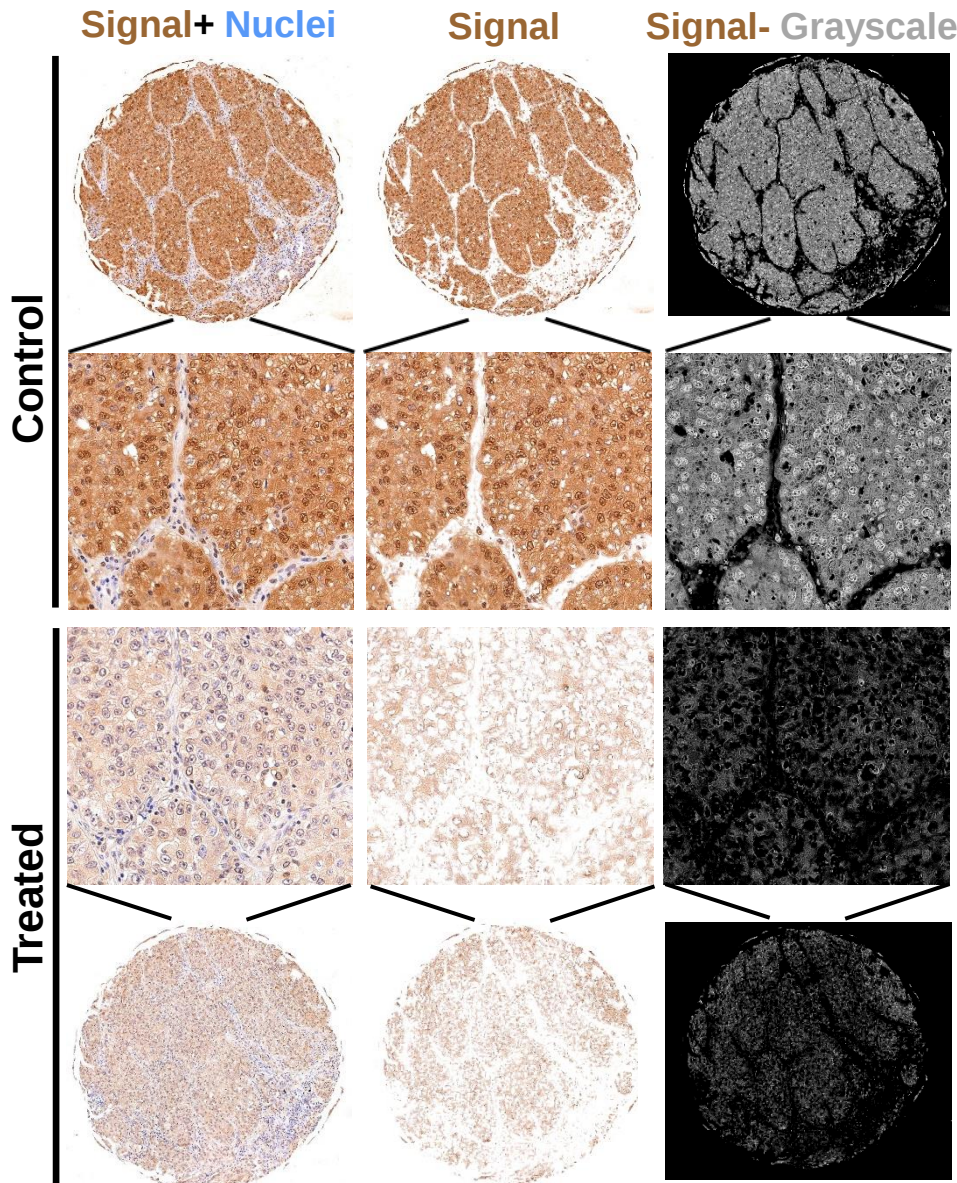
Treated



Signal/ Area

Histospeck now offers:

Algorithm based Non-Fluorescence TMA IHC Intensity Image Analysis services



	Group		
	Control	Treated	Ratio (Ctrl/Treated)
Signal Area	76,449	11,524	6.63
Total Intensity	122,560,928	32,721,146	3.74
Mean Intensity	76.55	20.43	3.74

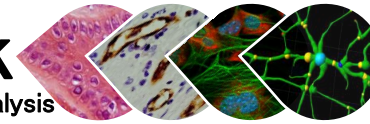
For details:

Dr. Itay Spektor

+972-50-4690708

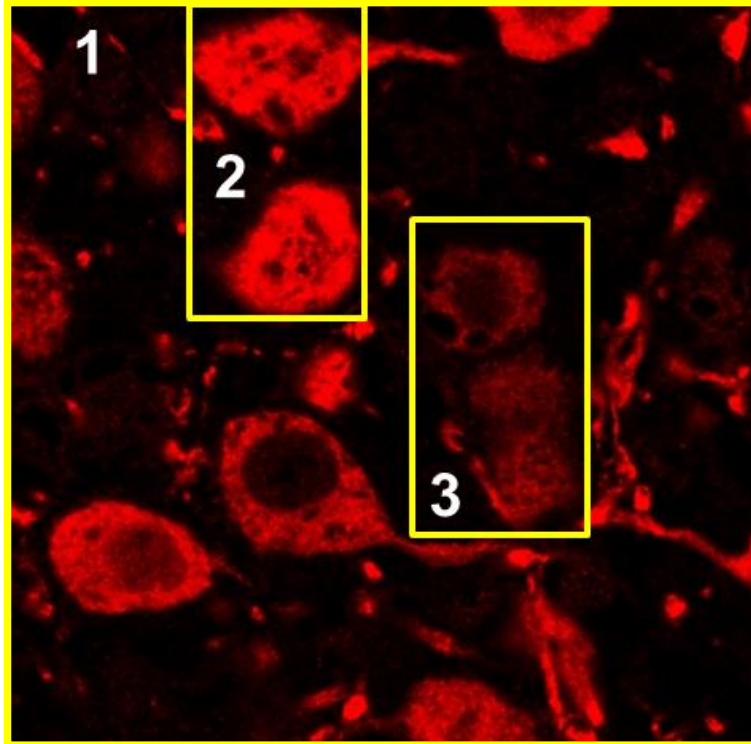
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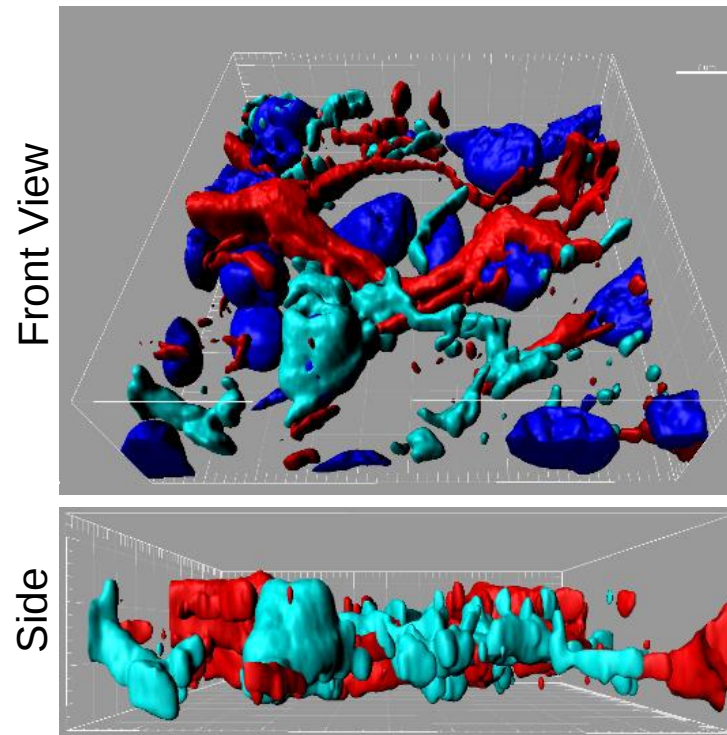


Histospeck now offers: **Algorithm based Image Analysis services**

Signal Intensity



Volumetric (3D) Signal



Area	Intensity
1	3,511,508
2	860,648
3	297,948

Protein	Volume (μm^3)
Astrocytes	2221.74
Microglia	1468.9

For details:

Dr. Itay Spektor

+972-50-4690708

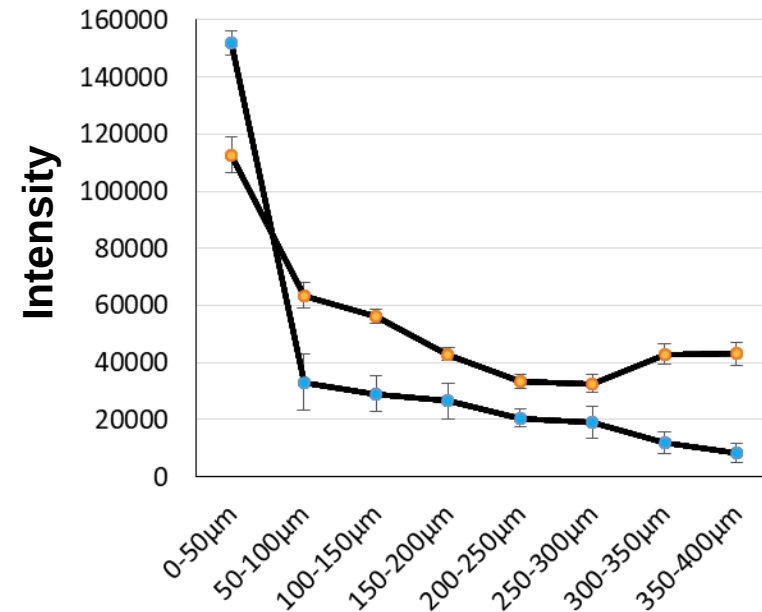
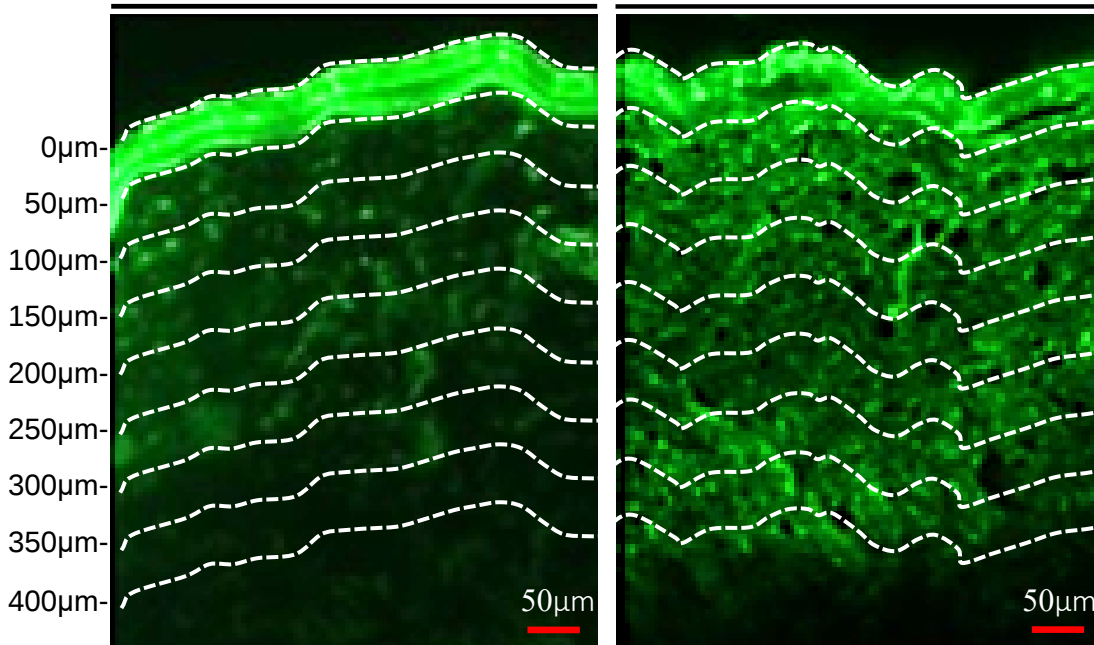
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Histospeck now offers: **Algorithm based Drug Delivery Image Analysis services**

Control

Treated



For details: Dr. Itay Spektor

+972-50-4690708

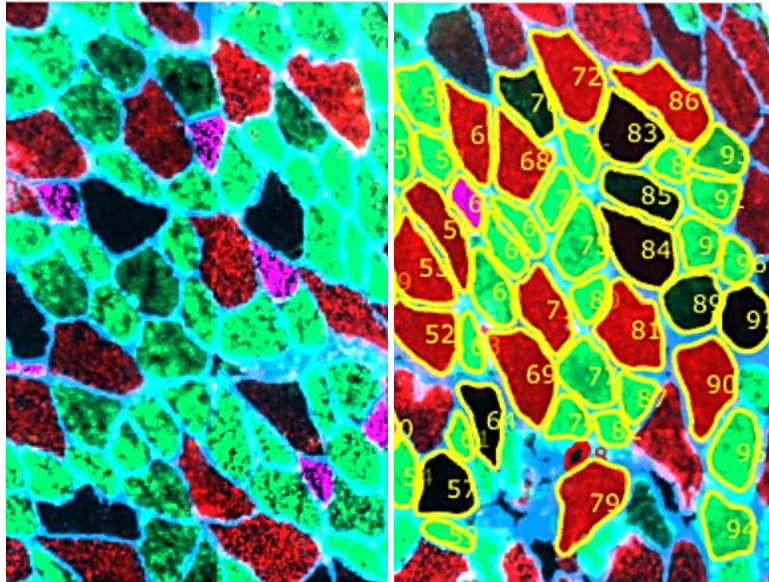
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Histospeck now offers: Muscle fiber typing **Image Analysis** services

Image

Analysis



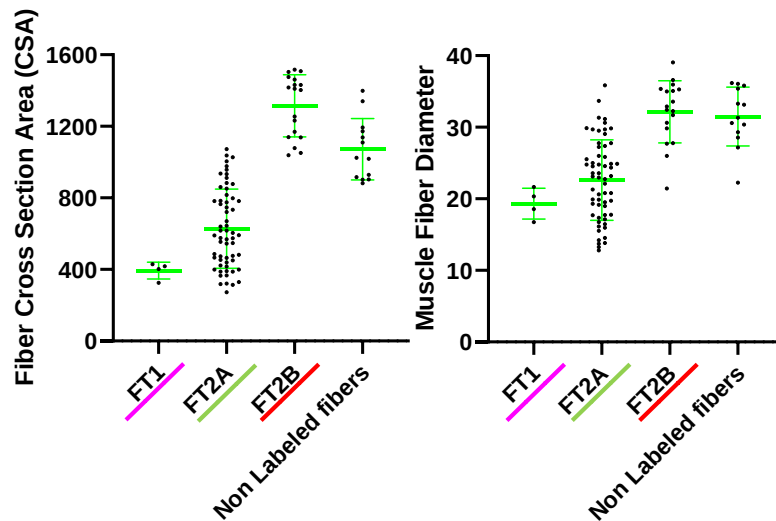
For details:

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+972-50-4690708

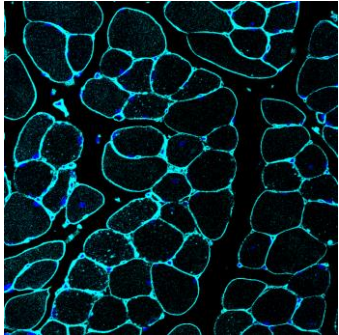
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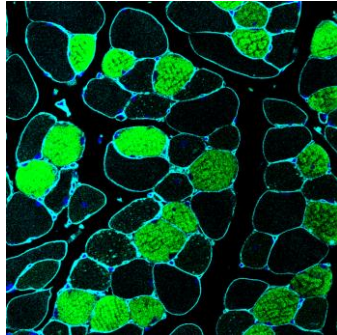


Histospeck now offers: Muscle fiber typing **Image Analysis** services

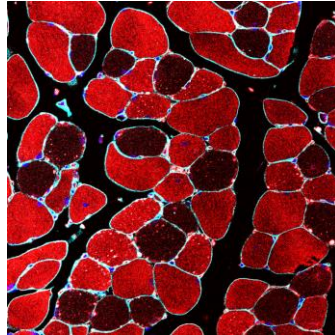
Membrane Marker



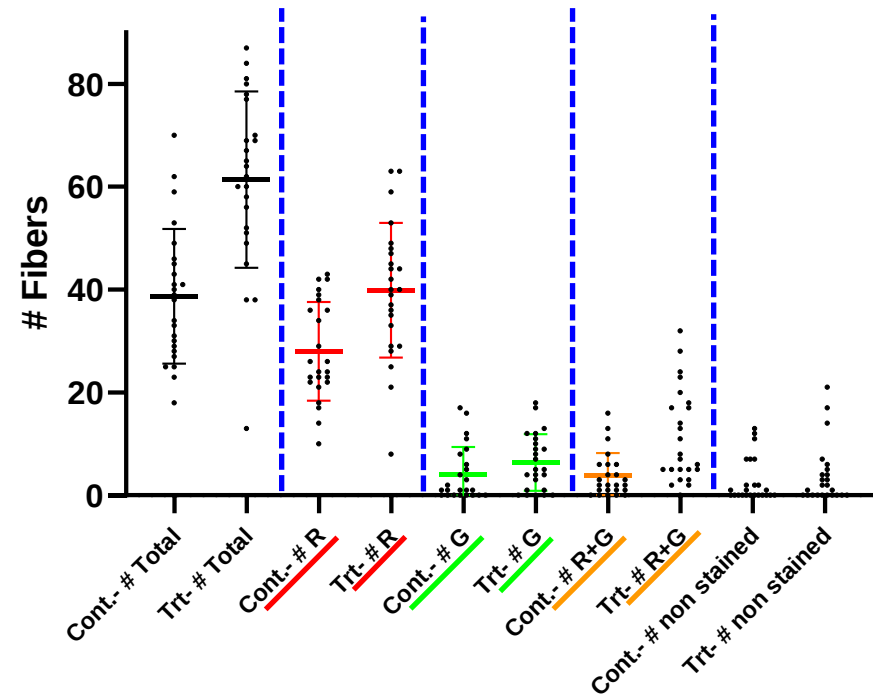
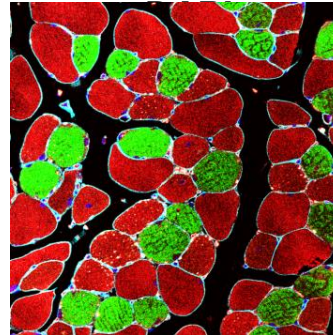
Slow Muscle



Fast Muscle



Merged (+)

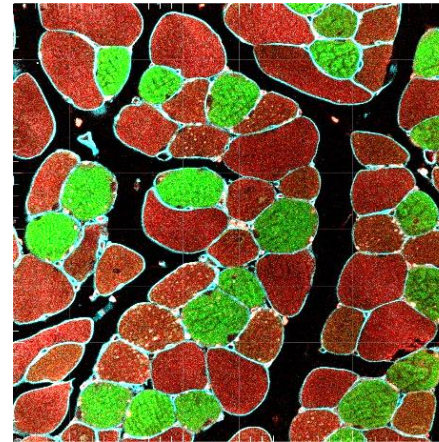


# of Fibers		
Group	Cont.	Trt
TOTAL #	38.71	61.38
# R Fibers	28.00	39.88
# G Fibers	4.08	6.38
#G+R Fibers	3.83	11.38
#No stain Fibers	2.75	3.75

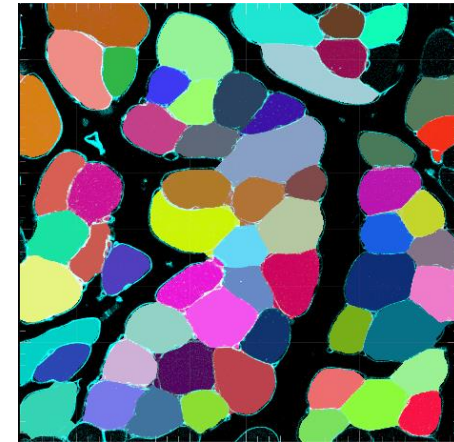
Fibers Area (μm^2)		
Group	Cont.	Trt
TOTAL #	4574.61	3791.66
# R Fibers	4814.24	4105.22
# G Fibers	3433.90	2864.01
#G+R Fibers	2915.34	2548.58
#No stain Fibers	3635.49	4446.15

Fiber Typing analysis

Original Image



Analysis



For details: Dr. Itay Spektor



+972-50-4690708



Itay@histospeck.com

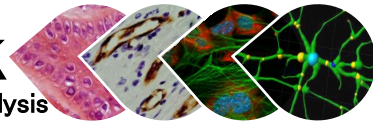


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Histospeck now offers:

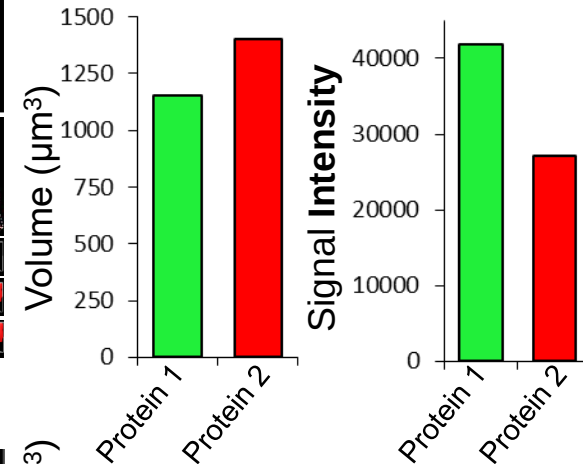
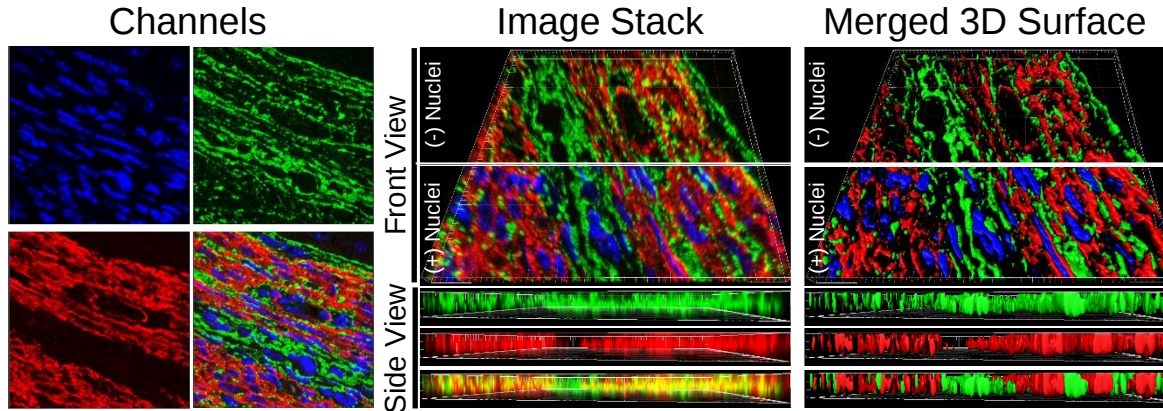
Histology and MRI **3D Image analysis services**

Histospeck
Histology, Cytology & Image Analysis

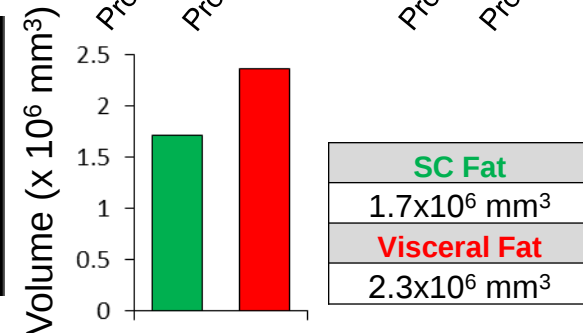
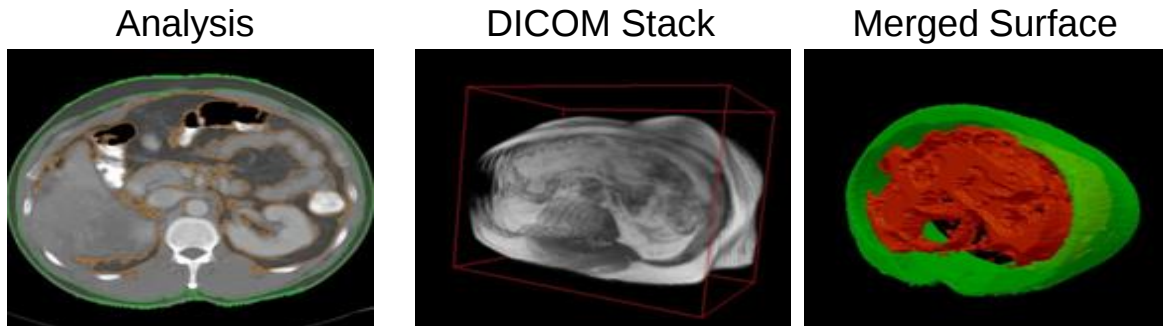


Signal Quantification- 3D Volume

Histology-Confocal



MRI

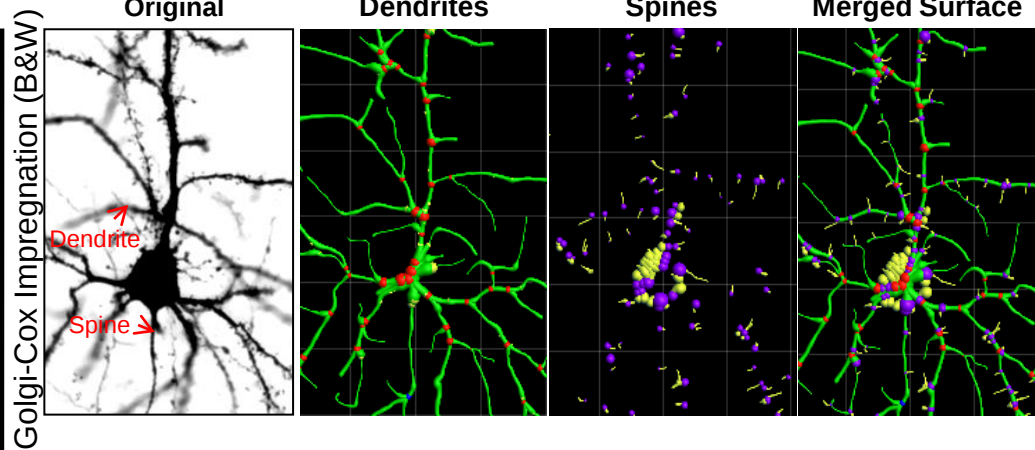


For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

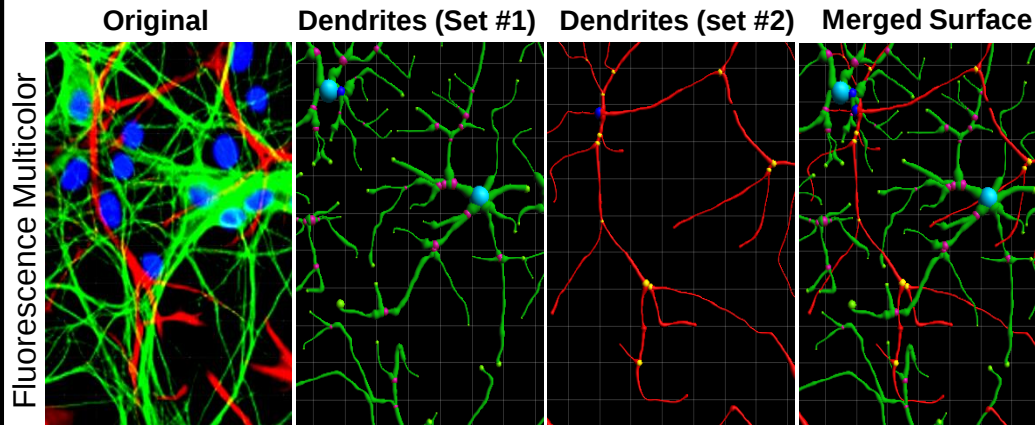
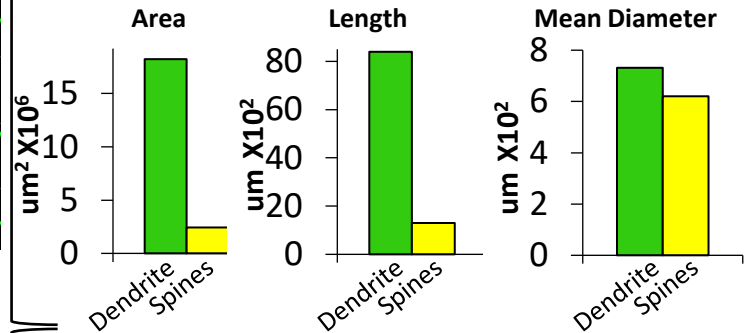
Histospeck now offers:
2D+3D Neuron histology Image analysis services



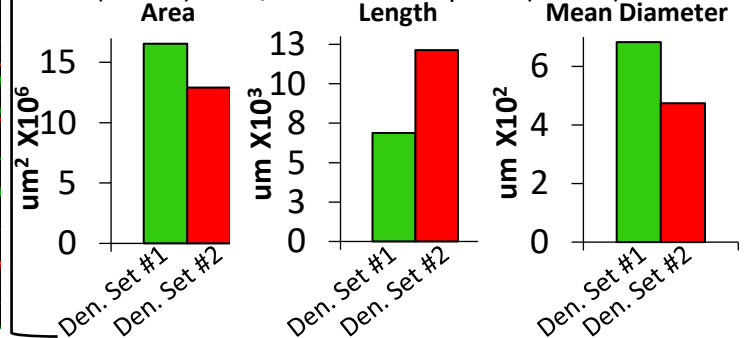
Signal Analysis



Dendrite- **Green**; Dendrite branch point- **Red**
 Spines- **Yellow**; Spines attachment point- **Purple**



Den. (set #1)- **Green**; Den. branch point (set #1)- **Purple**
 Den. (set #2)- **Red**; Den. branch point (set #2)- **Yellow**



For details: **Dr. Itay Spektor** ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

Histospeck now offers: **Image De-Convolution** services

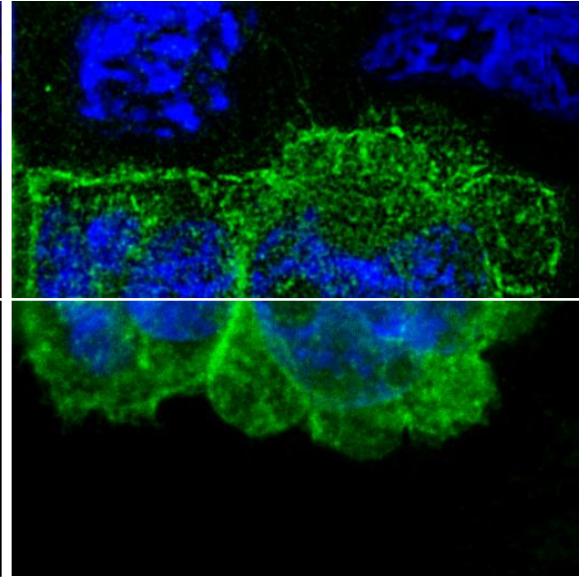
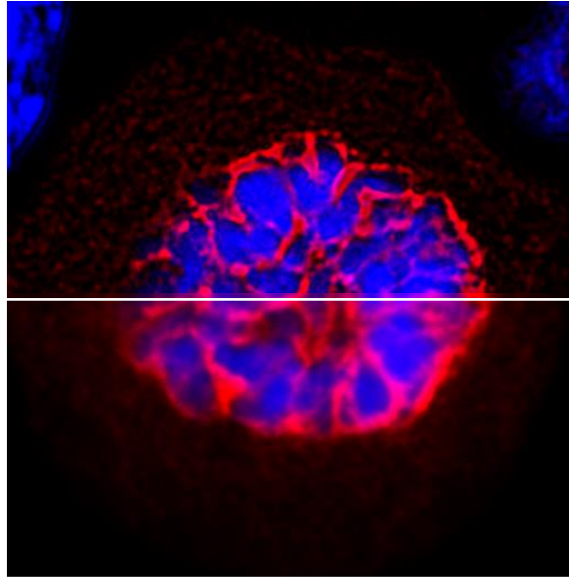
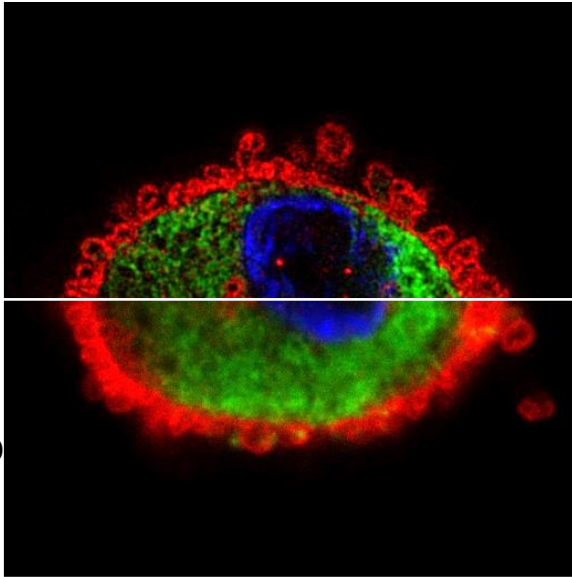
Immunocytochemistry (ICC) Image

Original Deconvolve

Hu cell Marker#2+**Cytoplasmic** marker

Proliferation M#1

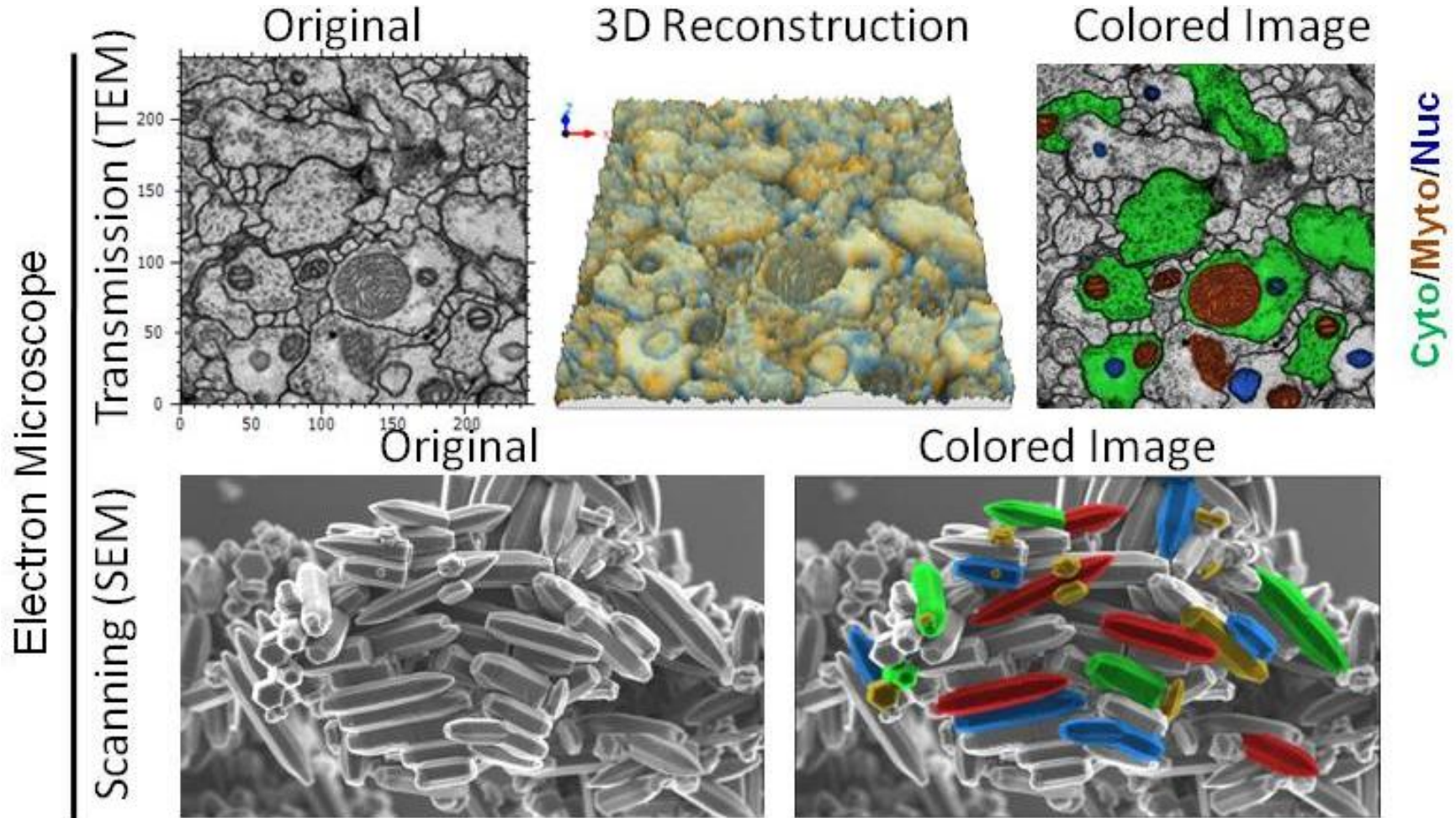
EGFR



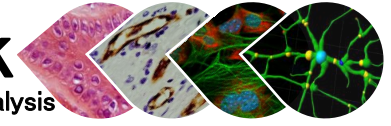
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Histospeck now offers:

2D+3D **Electron Microscopy** Image Analysis Services



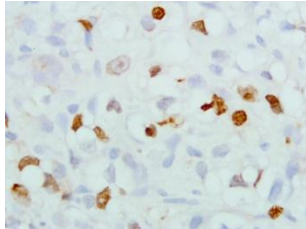
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Histospeck now offers: **Tumor IHC services**

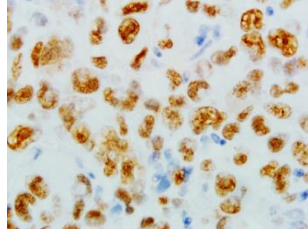
HRP

**Proliferation
Marker #1**



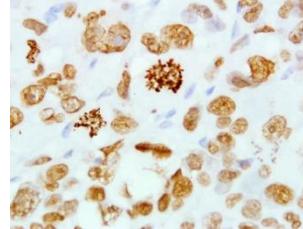
TGFβ2+ TGFβ3
(inflammation)

**DS DNA breaks repair
Marker#1**



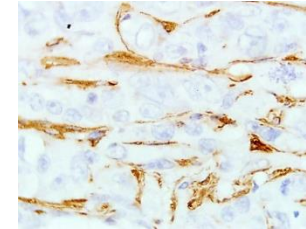
Apoptosis Marker #1

DS DNA Damage



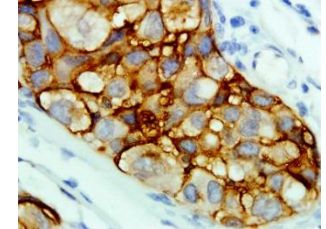
Apoptosis Marker #4-
(apoptosis)

Fibroblasts Marker #1



Apoptosis Marker #1+
Apoptosis Marker #4-

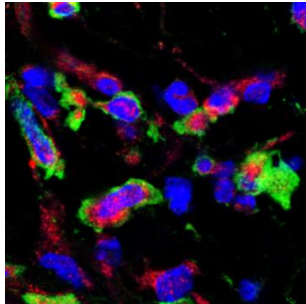
**Hu cell Marker#2
(Tumor)**



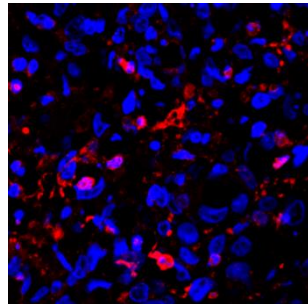
H&E
(Morphology)

3D Reconstruction

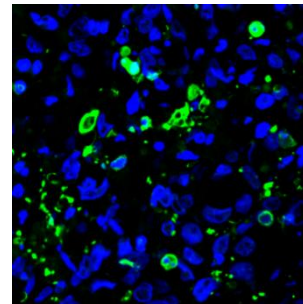
Fluorescence



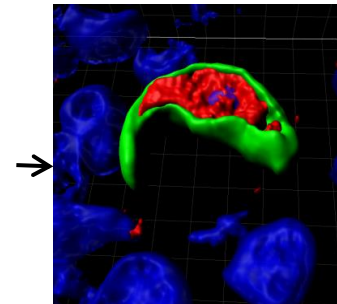
Fibroblasts M#1+
Hu cell Marker#1



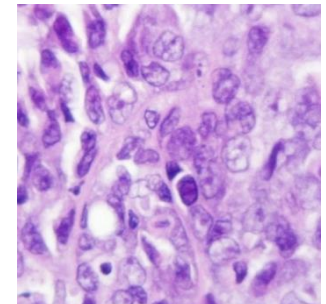
MMP-9
(Metalloproteinase)



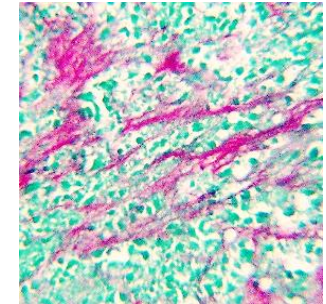
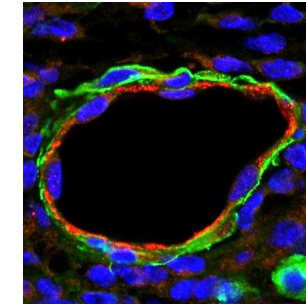
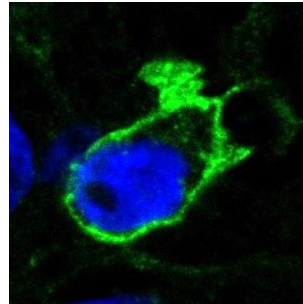
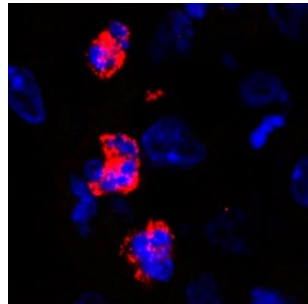
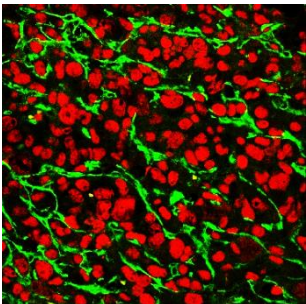
**Hematopoietic cells
marker #1**



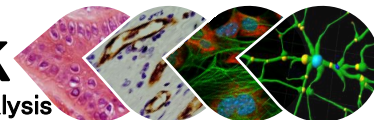
Fibroblasts M#1+
Endothel Marker #1



Sirius Red
(Collagen I+III)



Histospeck now offers: **Immune system IHC services**



H&E {(Mostly) Innate cells}
(Inflamed Lung)

Neutrophils
(Inflamed Lung)
Magnification

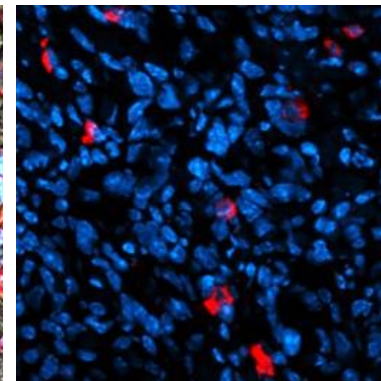
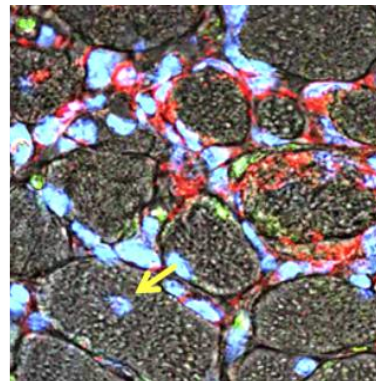
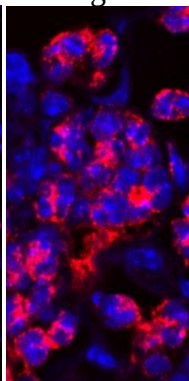
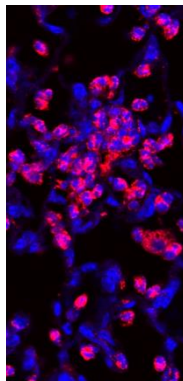
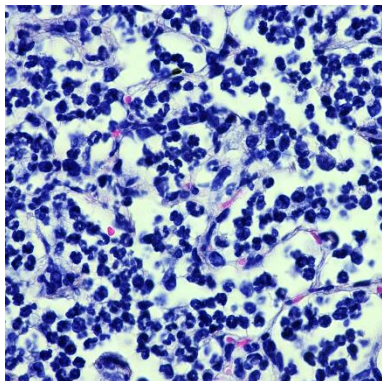
Macrophages
(Inflamed Skeletal Muscle)

Mast Cells
(Tumor)

Low High

Innate Immunity

Paraffin



**Hematopoietic cells
marker #1**

T cells Marker#1

Tc (cytotoxic)

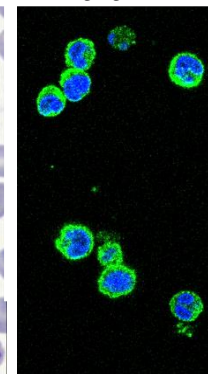
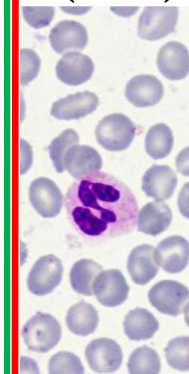
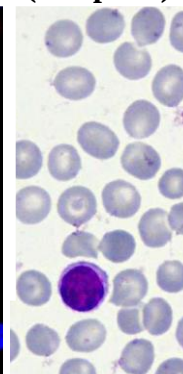
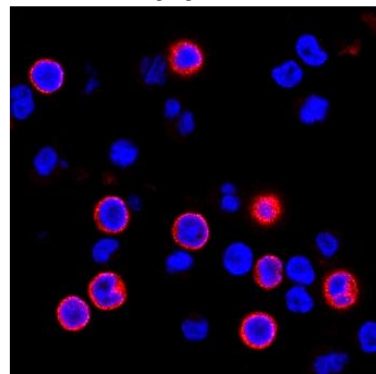
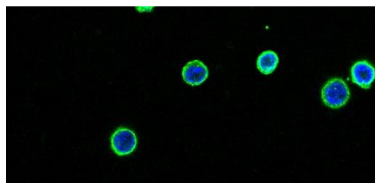
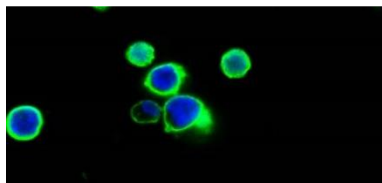
**Giemsa
Stain
Lymphocyte
(Adaptive)**

**Giemsa
Stain
Granulocyte
(Innate)**

**Myeloid cells
Marker#1**

Adaptive Immunity

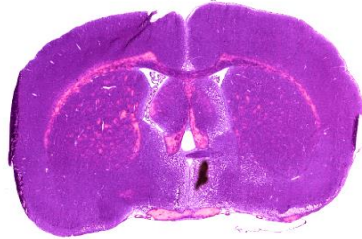
Paraffin
ICC



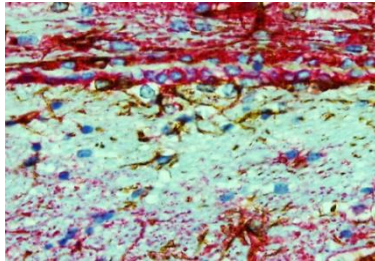
For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

Histospeck now offers: Nervous System (CNS/PNS) IHC services

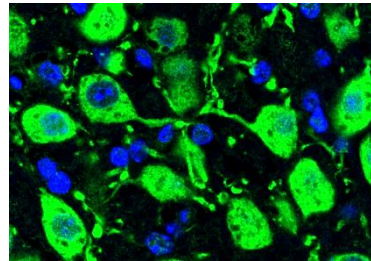
H&E
(Cerebellum, Sagittal)



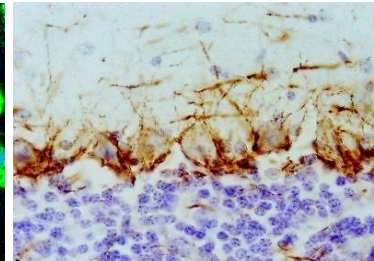
Multiplex IHC (HRP+AP)-
Astrocytes M#2 (perimicrovessel astrocyte)+ **Astrocytes M#1**



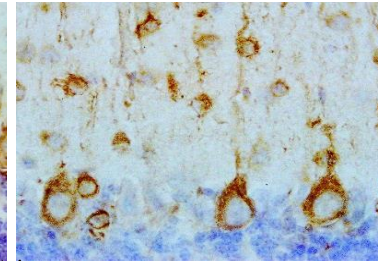
Neuron Marker #4
(Neuron-cytoskeleton)



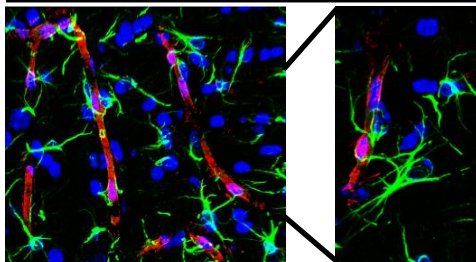
Neuron Marker #3
(Myelinated Neurons)



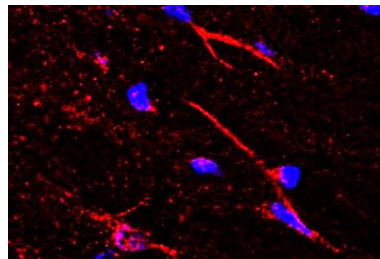
Neuron Marker #1
(Neuron microtubule)



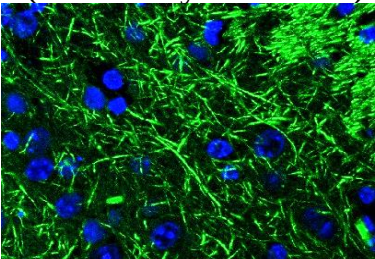
Astrocytes M#2 (perimicrovessel ast)+ **M1+M2 Macrophages #1**+ **Astrocytes Marker #1**
Astrocytes M#1



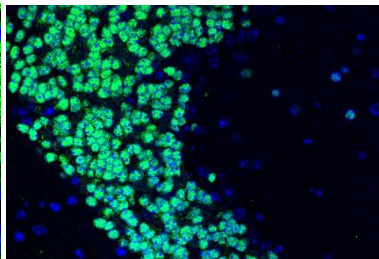
Oligodendrocytes/ Myelinating Schwann cells



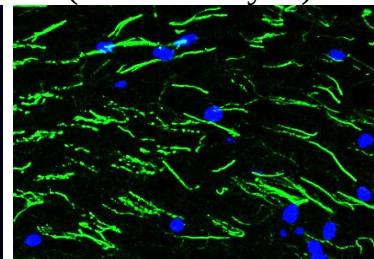
Neuron Marker #5
(Neuron-cytoskeleton)



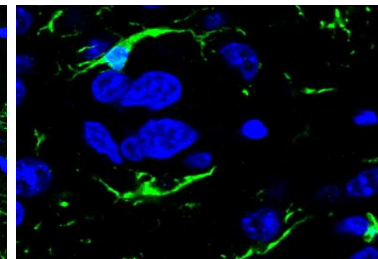
Neuron Marker #2



Astrocytes Marker#3
(Pan-Astrocyte)



M1+M2 Macrophages #1-
(Microglia/Macrophage)



Histospeck now offers: **Nervous System (CNS/PNS) IHC services** (2nd brochure)

Glioblastoma tumors- whole tissue Scan

Zoom 0.7%

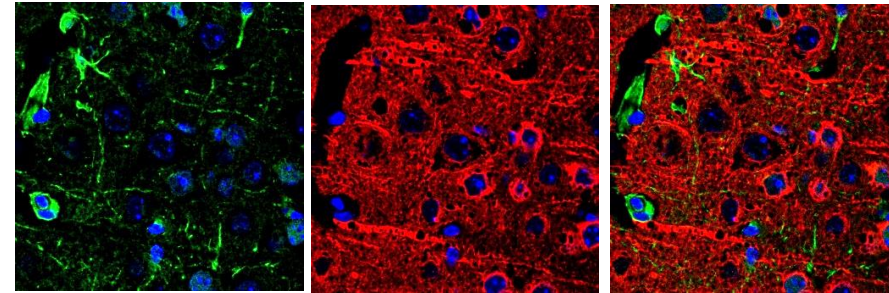
Zoom 14%

H&E

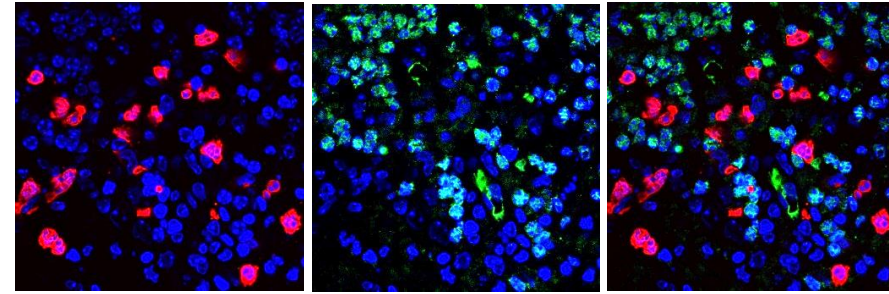
Proliferation-
Marker#1

Proliferation-
Marker#2

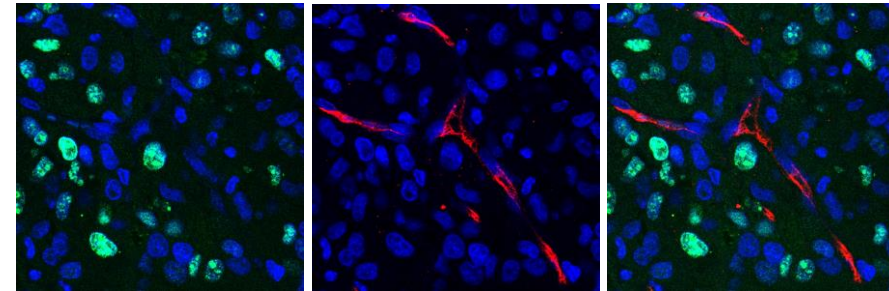
Astrocytes M#1 Neuron Marker #1 Merged (+) DAPI

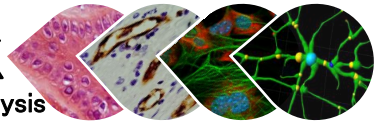


Protozoa parasite Neuron M#2 Merged (+) DAPI



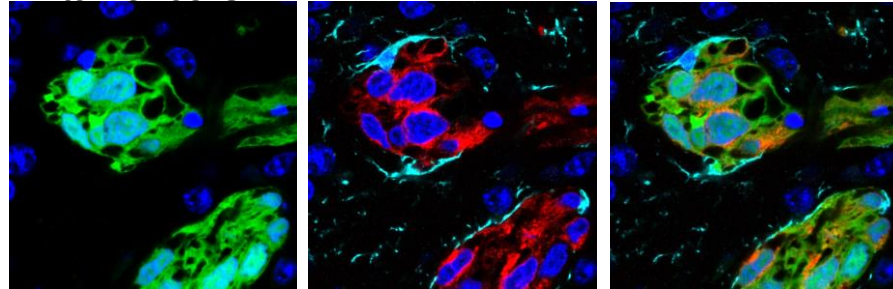
Proliferation Marker #1 Neo-vascularization Marker Merged (+) DAPI



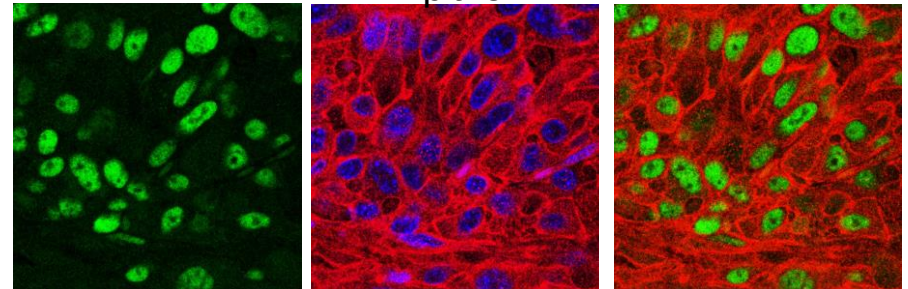


Histospeck now offers: **Nervous System (CNS/PNS) IHC services** (3rd brochure)

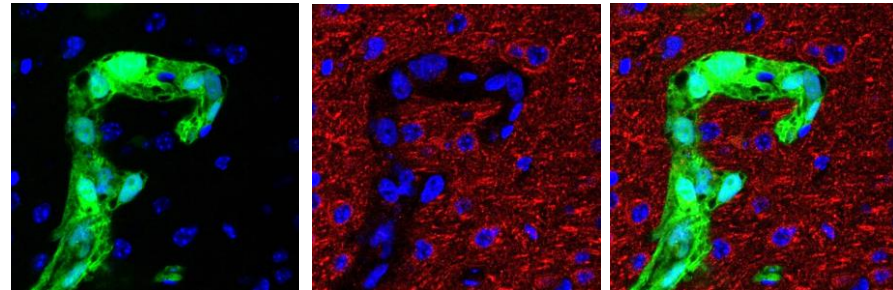
GFP expressing tumor cells **M1/2 Macrophages #1+ Melanoma Marker** **Merged (+) DAPI**



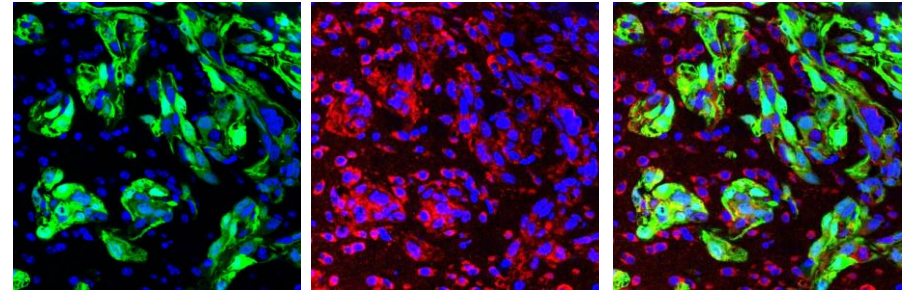
Proliferation-Marker #2 **Mesenchyme/Epithel** **Merged (-) DAPI**



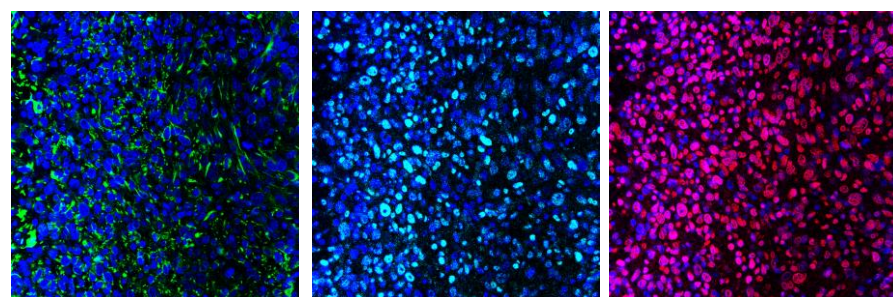
GFP expressing tumor cells **Neuronal marker** **Merged (+) DAPI**



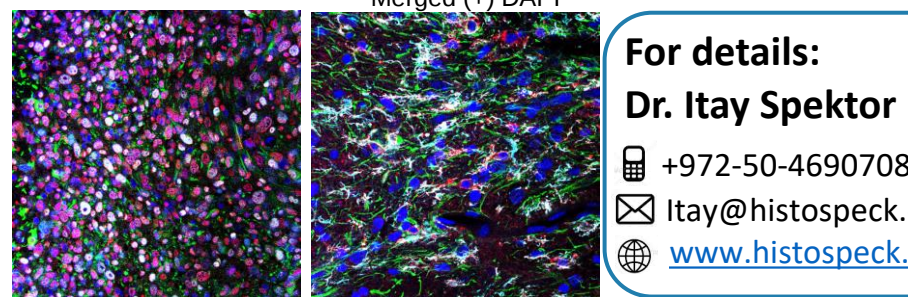
GFP expressing tumor cells **Glioma related marker+ GFP** **Merged (+) DAPI**



Astrocytes Marker #1 **Proliferation-Marker #2** **Senescence marker**



Merged (+) DAPI **GFAP+ Macrophages: M2 #6+M1/M2 #1** **Merged (+) DAPI**



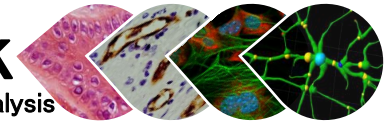
For details:

Dr. Itay Spektor

+972-50-4690708

Itay@histospeck.com

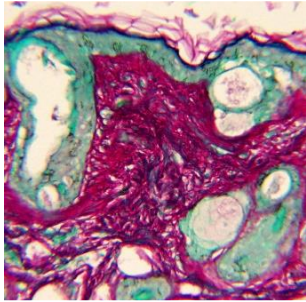
www.histospeck.com



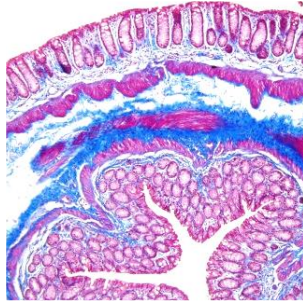
Histospeck now offers: **Extracellular Matrix (ECM) & Fibroblasts IHC services**

ECM
Markers

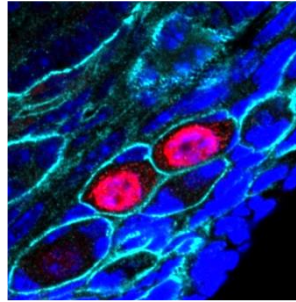
Picro-Sirius Red
(Collagen I, II, III), Skin



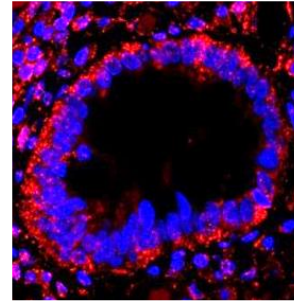
Masson's Trichrome
(Connective tissue)



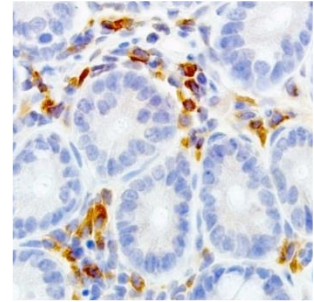
ECM Marker#1-
(Ovary)



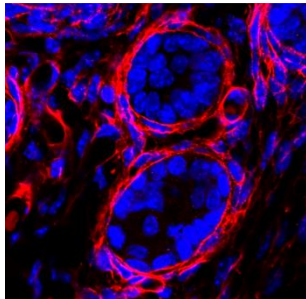
ECM Marker#2-
(Colon)



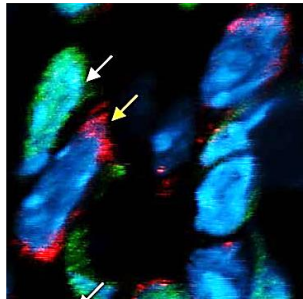
ECM Marker#3-
(Small Intestine)



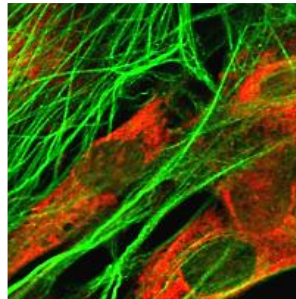
ECM Marker#4-
(Skin)



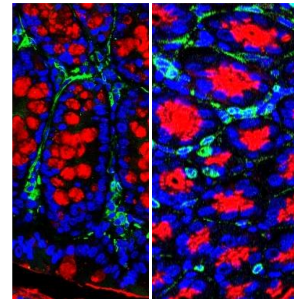
ECM Marker#5
(Tumor)



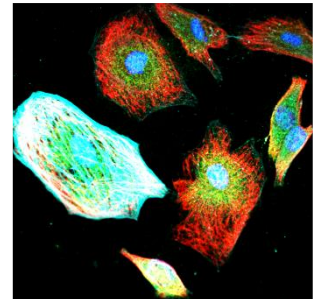
ECM Marker#6+M#2
(Tumor culture)



ECM M#7+M#8
(Colon) (Stomach)

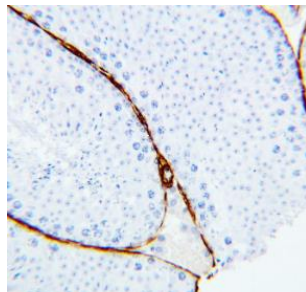


F. Marker #1+#2+#3
(Tumor culture)

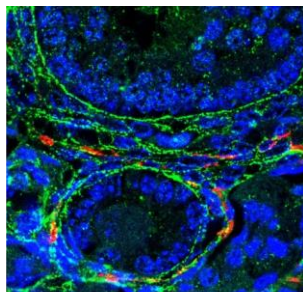


Fibroblasts (F.)
Markers

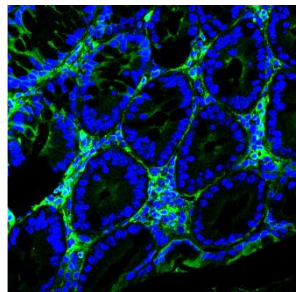
F. Marker#1
(Testis)



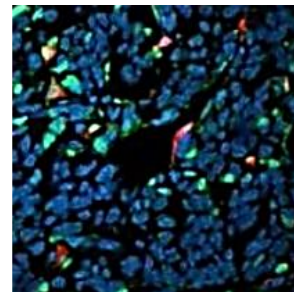
F. Marker#1+
Marker#2 (Ovary)



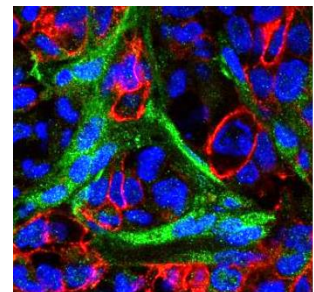
F. Marker#3
(Colon)

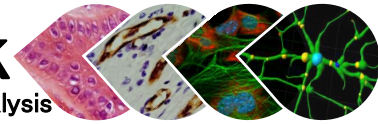


F. Marker#4
(Tumor)

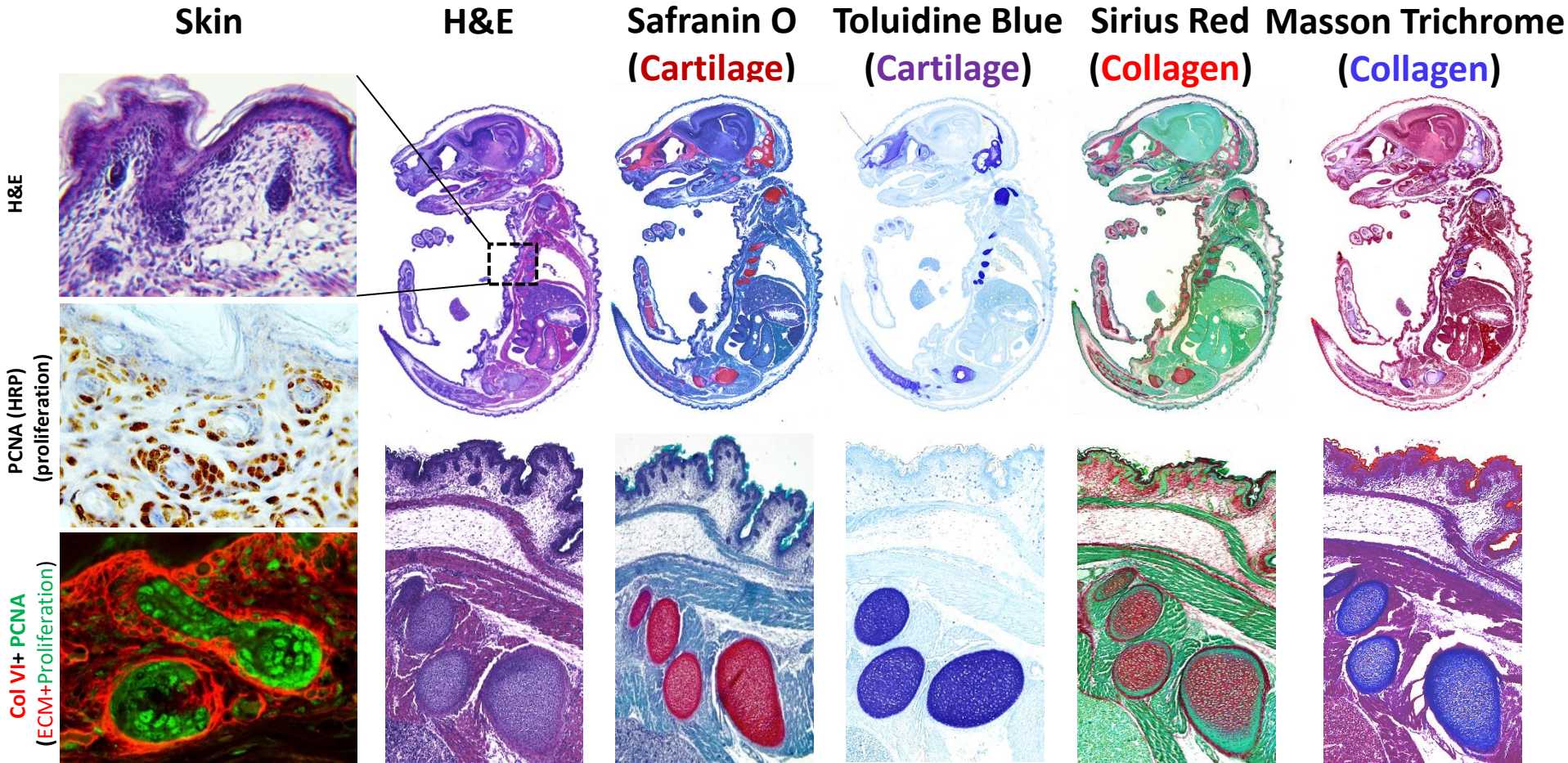


F. Marker#1+
Marker#3 (Tumor)





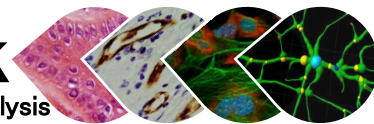
Histospeck now offers: **De-calcified Embryo/Newborn IHC services**



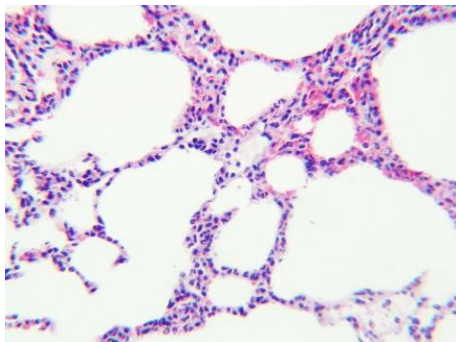
For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

Histospeck now offers: **Lung IHC services**

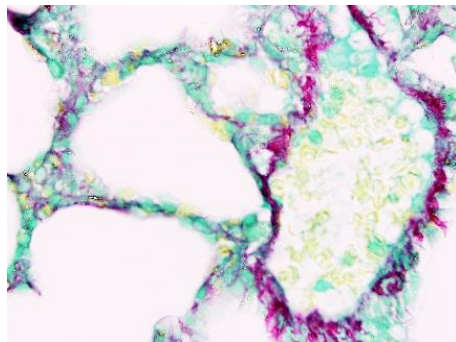
Histospeck
Histology, Cytology & Image Analysis



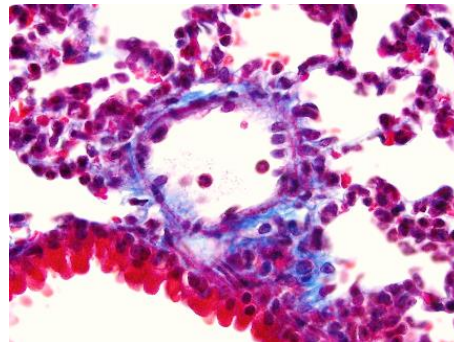
H&E



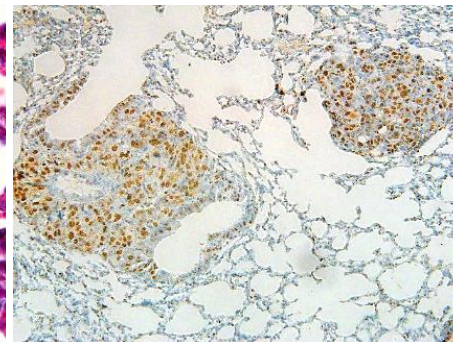
**Collagen Type I+III
(Picro-Sirius Red)**



**Collagen Type I
(Masson's Trichrome)**



**Lung with Tumor-
Proliferation M#2**



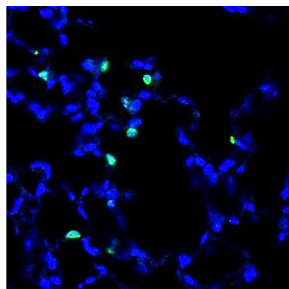
**Proliferation M#2+
Neo-vascularization M.
+Mesenchyme/Epithel**

**ECM M#8
+Hematopoietic M#1**

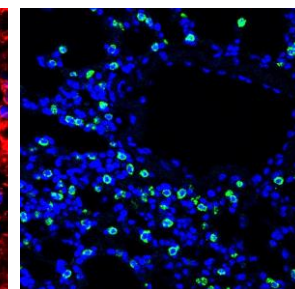
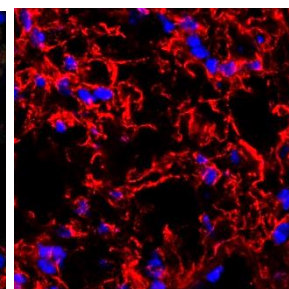
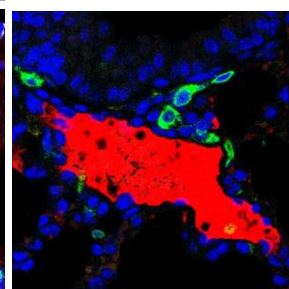
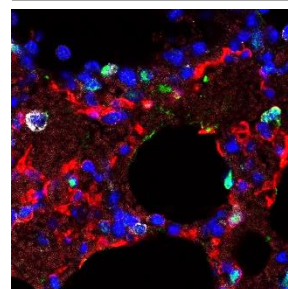
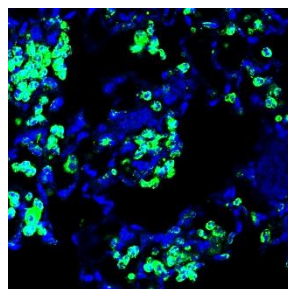
Fibroblasts M#3

Epithel Marker #3

Control Lungs

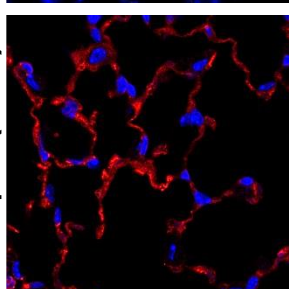


Inflamed Lungs

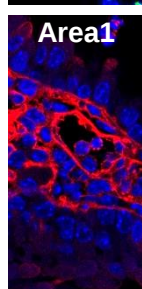


Neutrophils

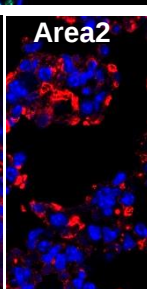
**SARS-CoV-2
Receptor (ACE2)**



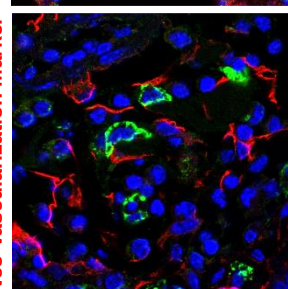
Area1



Area2



**T cells Marker# 1+
Neo-vascularization Marker**



For details:

Dr. Itay Spektor



+972-50-4690708

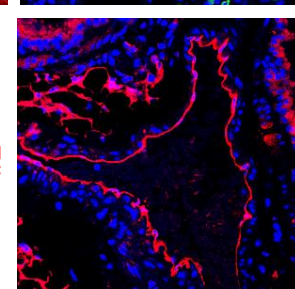


Itay@histospeck.com



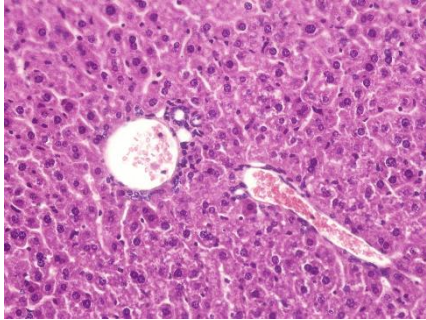
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**Endothel Marker
#1**

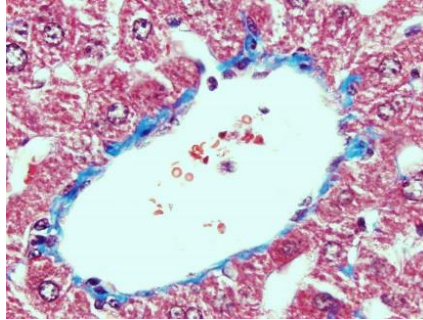


Histospeck now offers: **Liver Panel services** (2nd brochure)

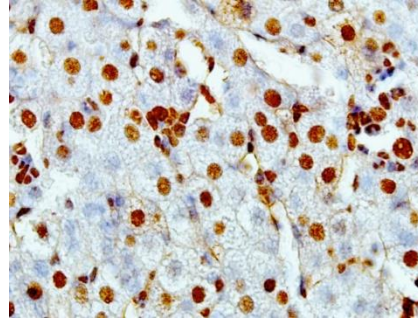
H&E
(Morphology)



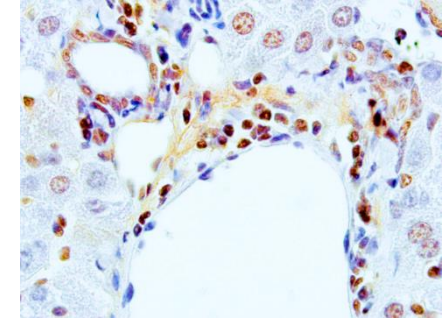
Masson Trichrome
(connective tissue)



Proliferation
Marker #2



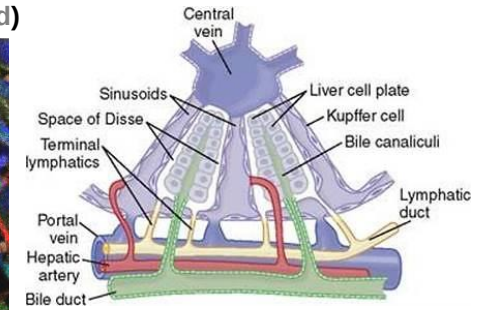
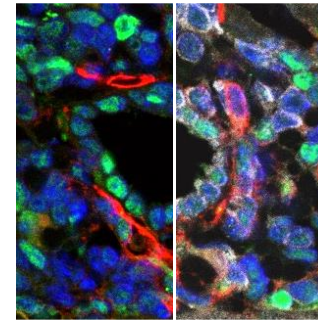
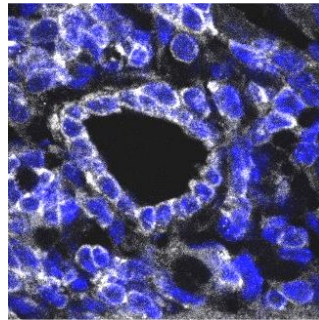
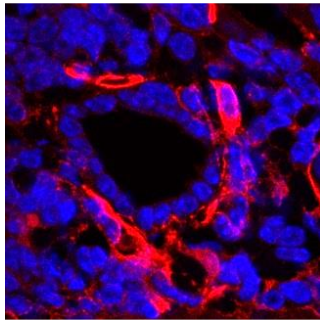
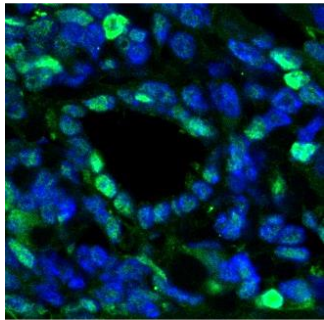
FOXO3A
(stress response)



Proliferation + Neovascularization + Mesenchyme/Epithel

Liver Portal Triad

Proliferation Marker #2 **Neo-vascularization Marker** **Mesenchyme/Epithel** **Merged (RGB+Far Red)**



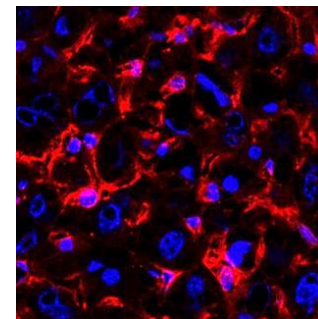
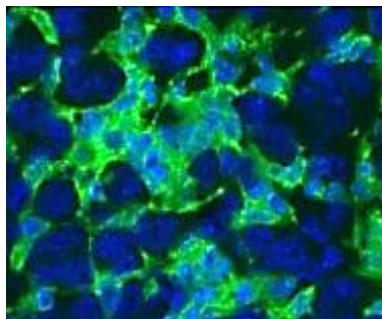
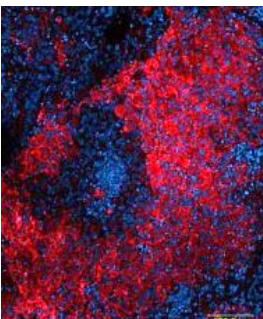
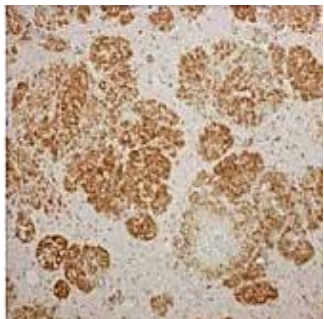
Hepatocellular Carcinoma

Fibroblasts

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Image Analysis &
Scientific Consultation
Services**

Proliferation Marker #2 **HCC Marker** **Mesenchyme Marker**

Marker #3



For details:

Dr. Itay Spektor

+972-50-4690708

Itay@histospeck.com

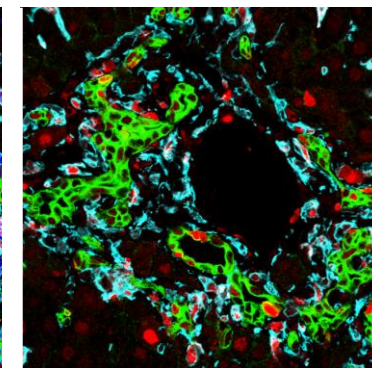
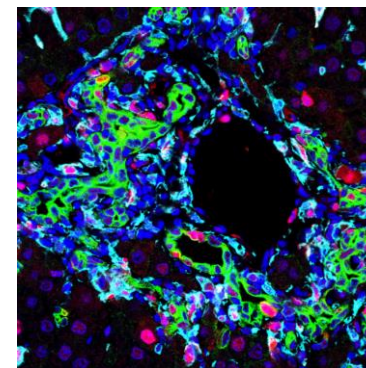
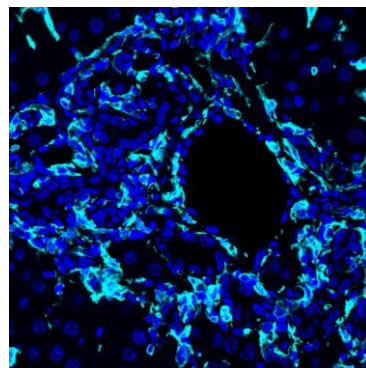
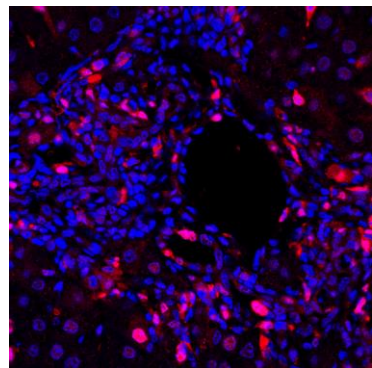
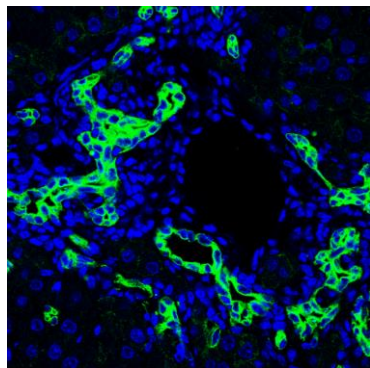
www.histospeck.com

Histospeck now offers: **Liver & Macrophages IHC services**

Intermediate Filament (IM) **Proliferation Marker #2** M1/2 Macrophages #1

Merged (+) DAPI

Merged (-) DAPI



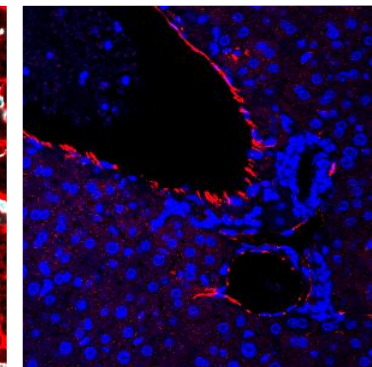
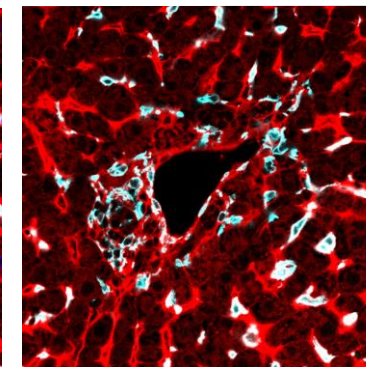
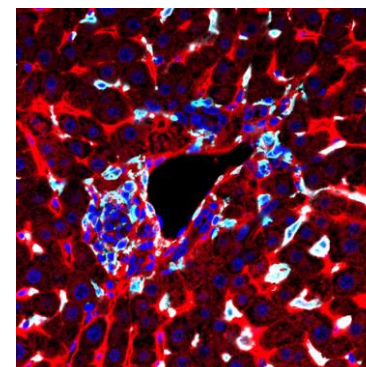
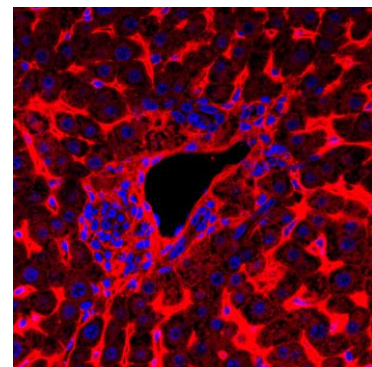
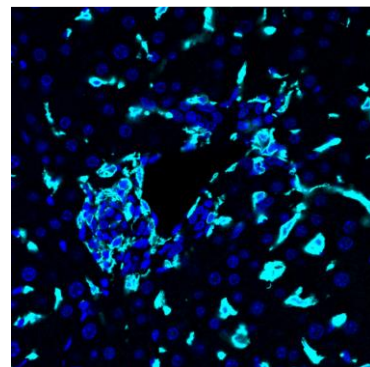
M1/2 Macrophages #1

M2 Macrophages #2

Merged (+) DAPI

Merged (-) DAPI

Endothel Marker #1

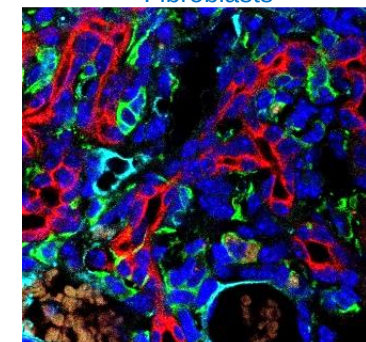
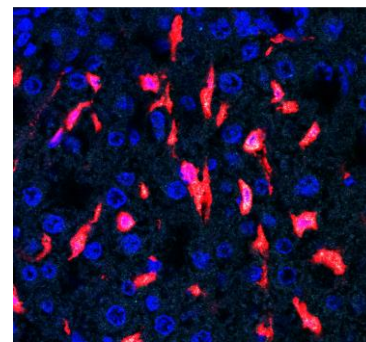
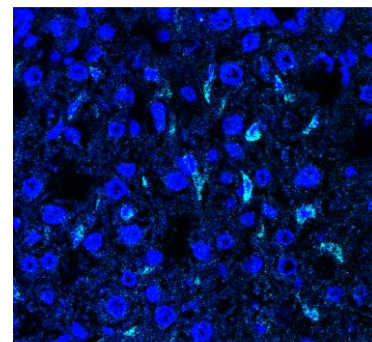
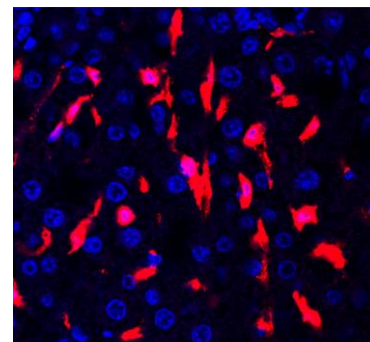


M2 Macrophages #3

M2>M0, m1 Macro. #4

Merged (+) DAPI

IM+ M0/M1 Macro. #5
+ Fibroblasts



For details:

Dr. Itay Spektor

+972-50-4690708

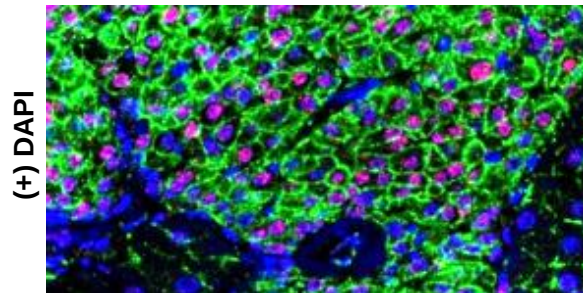
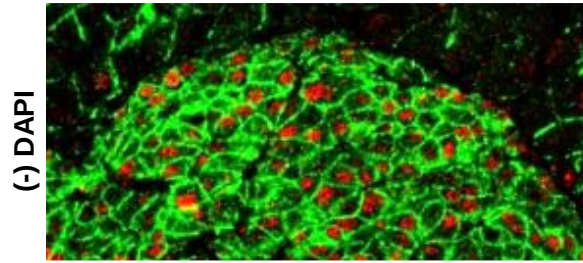
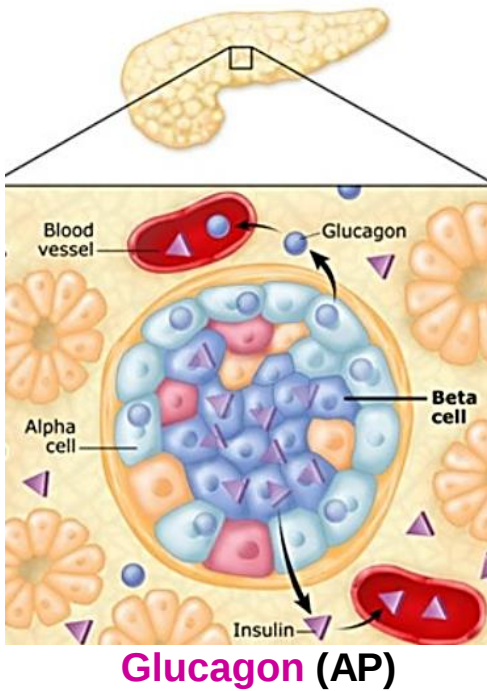
Itay@histospeck.com

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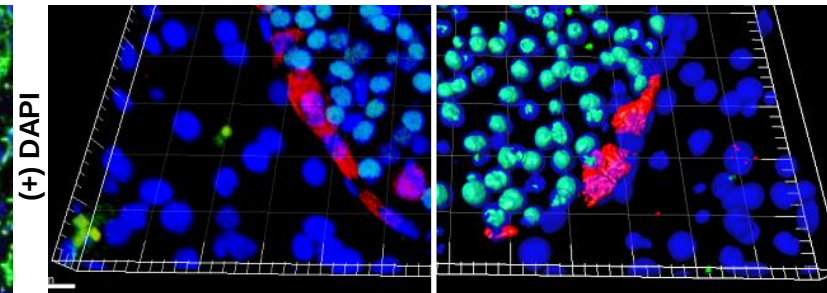
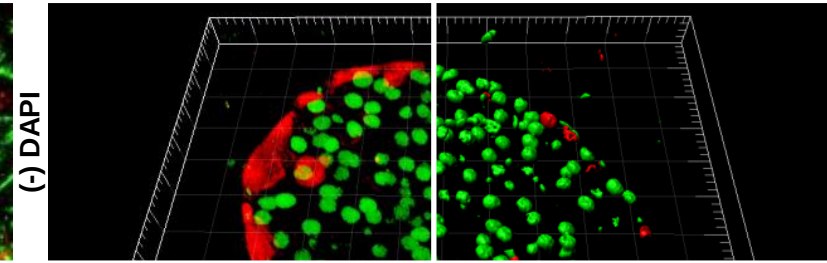
Histospeck now offers: **Pancreas+ Islets of Langerhans IHC services**

Cell-cell adhesion/
DS DNA Damage/DAPI

Cell-cell adhesion/Glucagon/DAPI



Insulin/DAPI



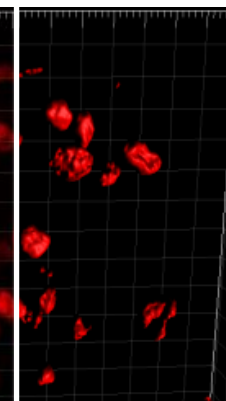
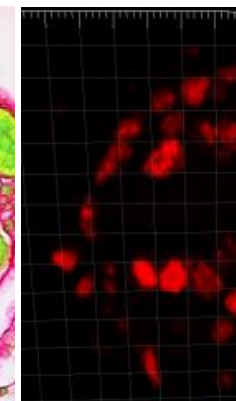
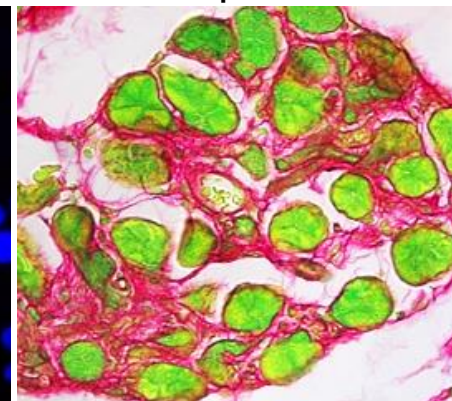
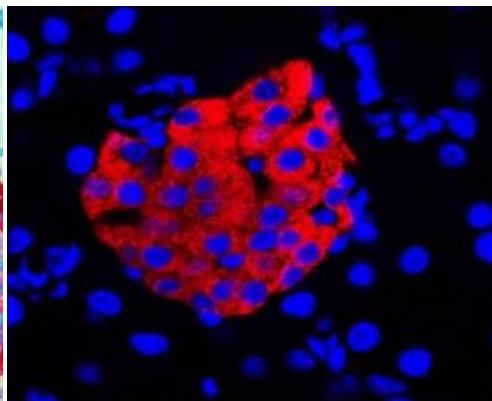
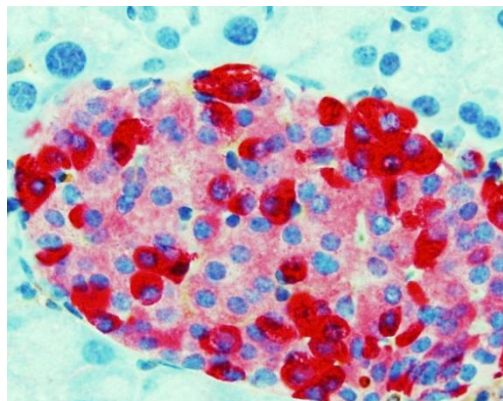
Sirius Red (Collagen)

Proliferation M#1

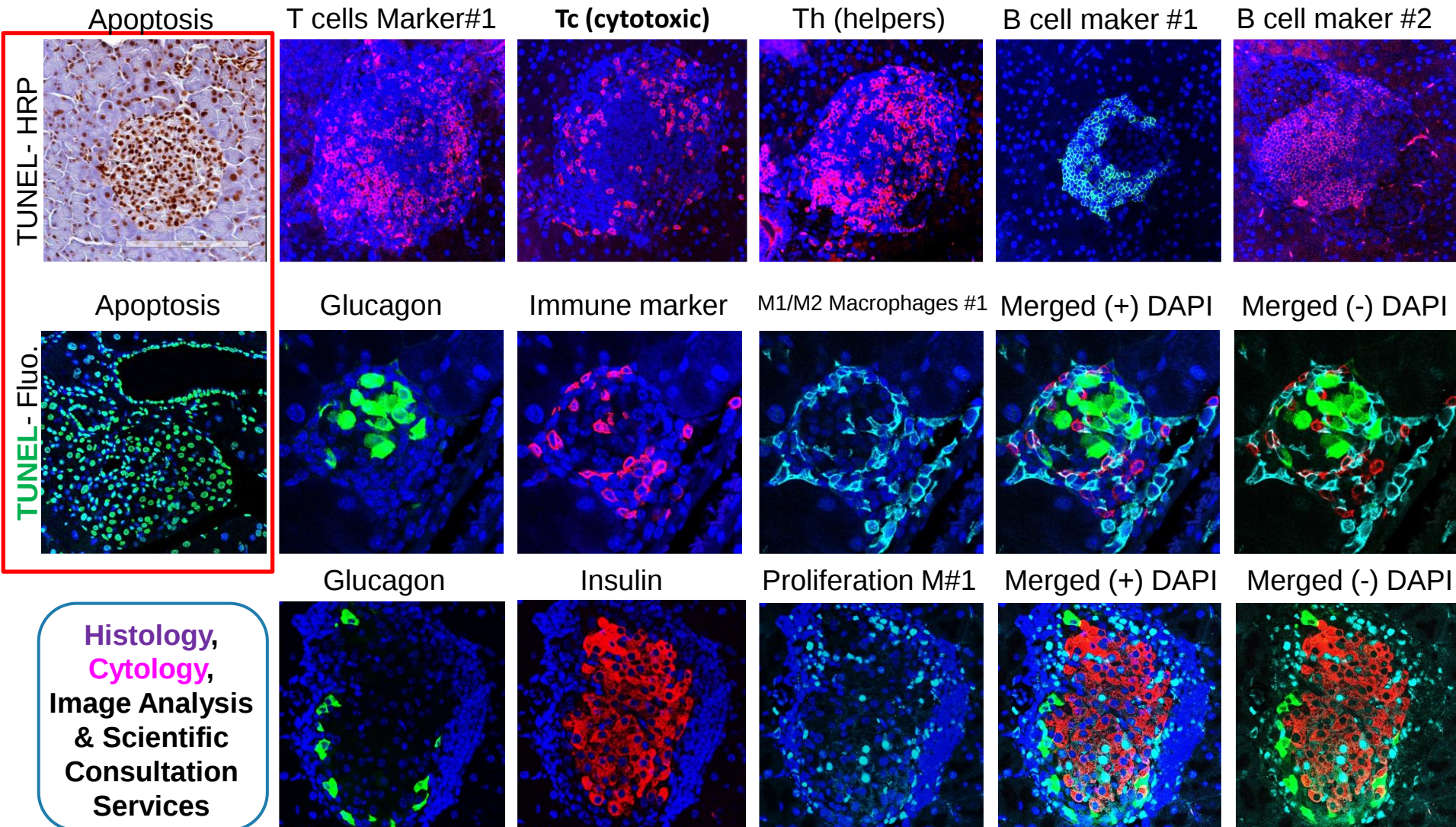
Fibrotic pancreas

Fluorescence

3D Recon.

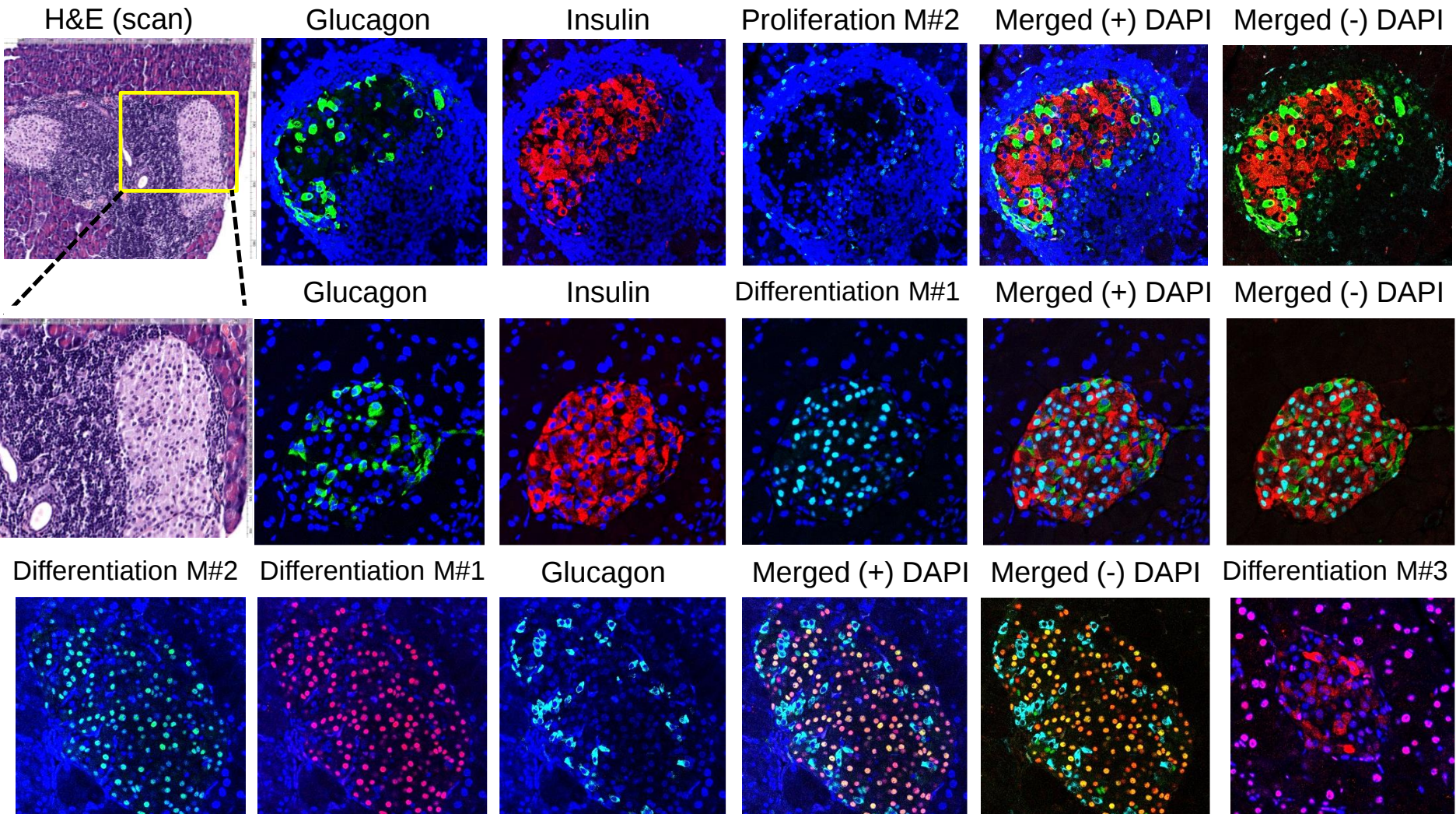


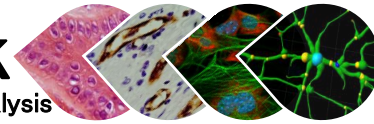
Histospeck now offers: **Pancreas+ Islets of Langerhans IHC services** (2nd brochure)



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Cytology,
Image Analysis
& Scientific
Consultation
Services**

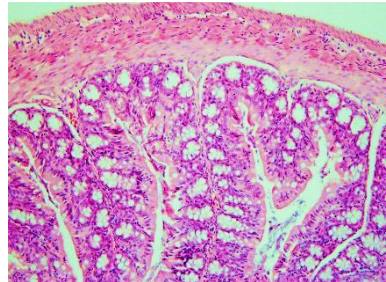
Histospeck now offers: **Pancreas+ Islets of Langerhans IHC services** (3rd brochure)





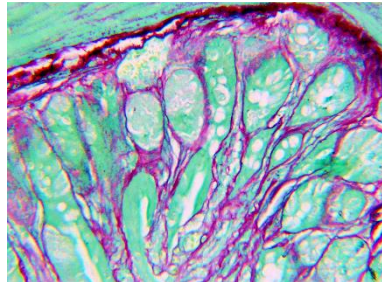
Histospeck now offers: Small Intestine IHC services

H&E (Morphology)



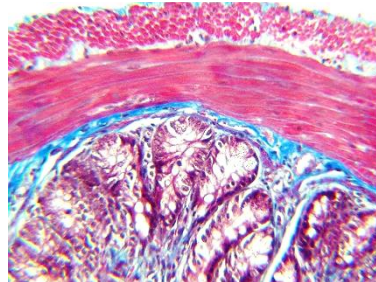
Proliferation M#1

Picro-Sirius Red
(Collagen I, II, III)



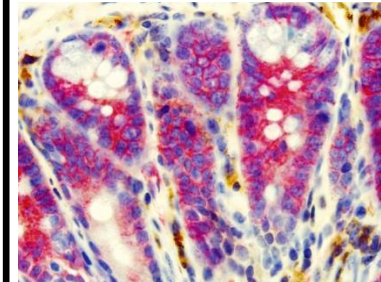
**Fibroblasts
Marker#1**

Masson's Trichrome
(Connective tissue)

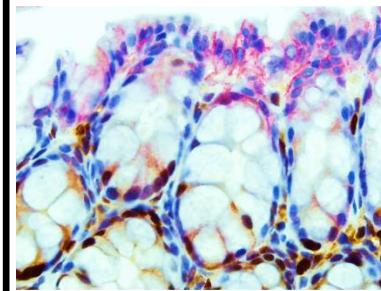


ECM Marker#3

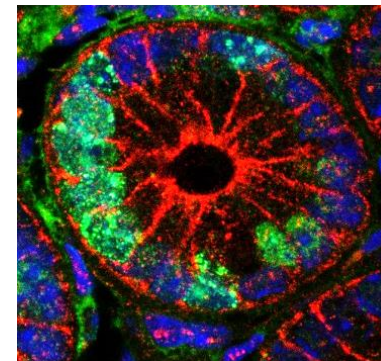
**Enteric glia cells+
Epithel**



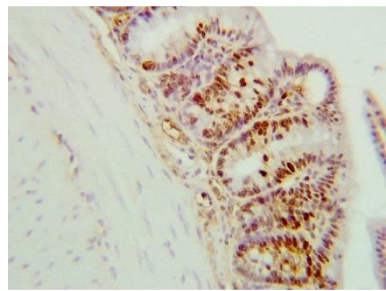
**Proliferation M#2+
Cell-cell adhesion**



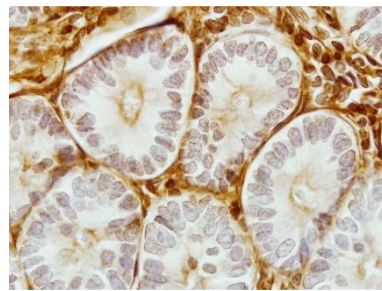
**Proliferation M#2+
Cell-cell adhesion**



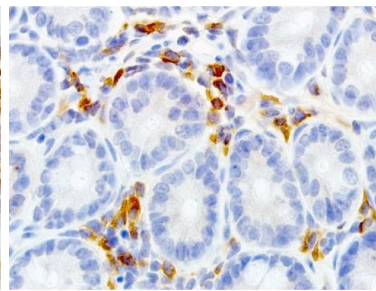
Chromogenic Multiplexing



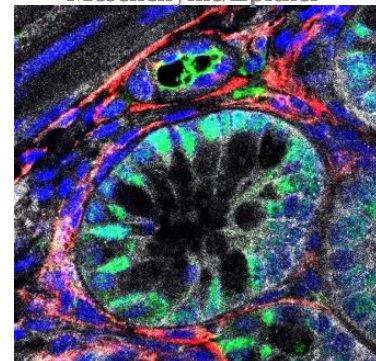
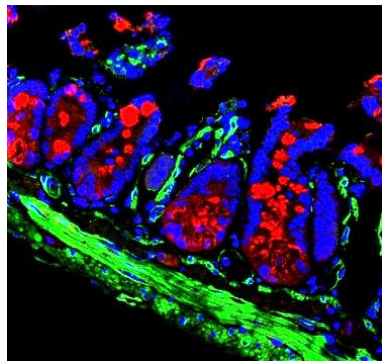
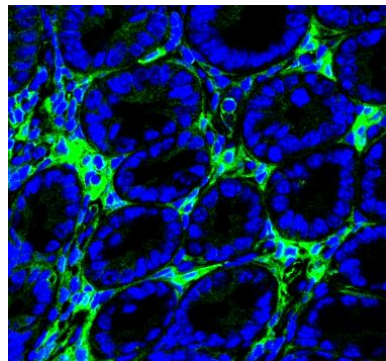
Fibroblasts M#3



**Fibroblasts Marker #1+
ECM Marker #7**



**Proliferation M#2+
Neovascularization +
Mesenchyme/Epithel**

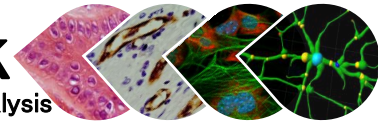


**For details:
Dr. Itay Spektor**

+972-50-4690708

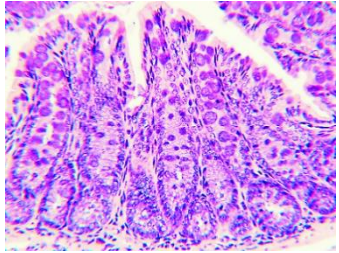
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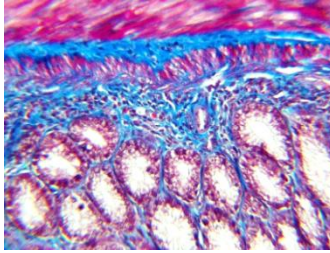
Histospeck now offers: **Large Intestine (Colon) IHC services**

H&E



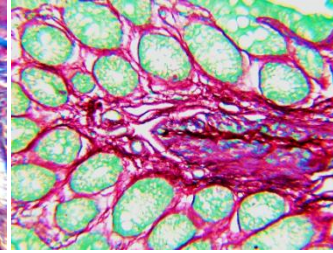
Pro-inflammatory cytokine

Masson Trichrome
(Connective Tissue)



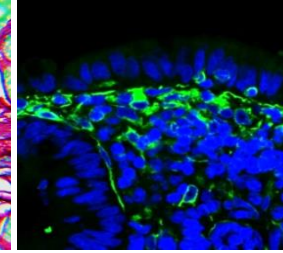
Epithel Marker #4

Sirius Red
(Collagen)

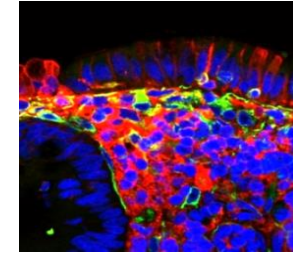
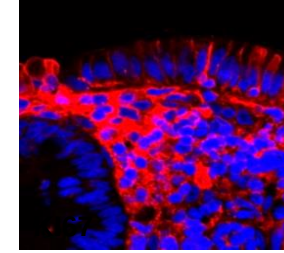


Fibroblasts
Marker #1

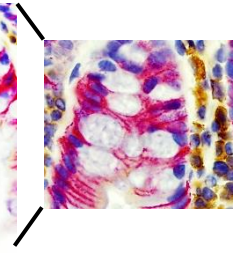
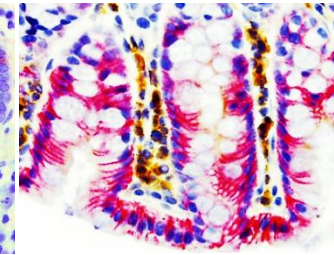
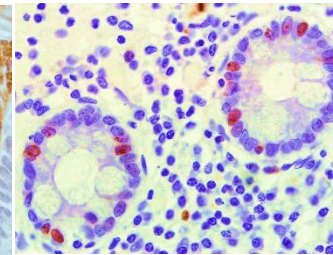
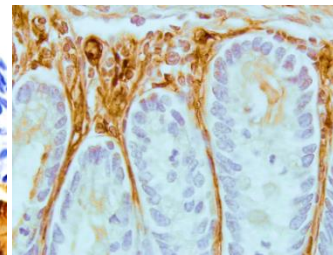
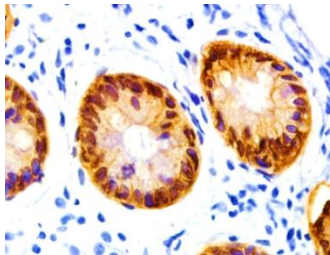
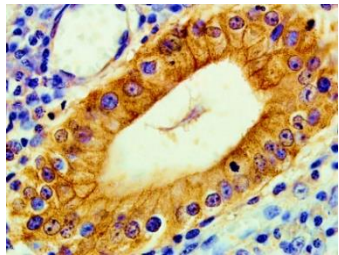
Fibroblasts M#3+ IgG (antibody)



Proliferation M#1

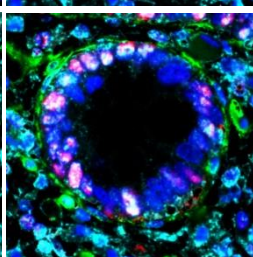
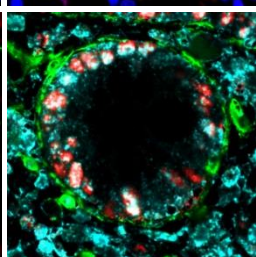
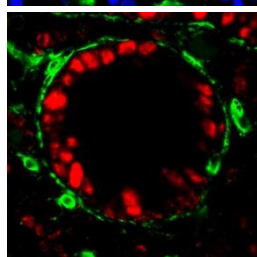
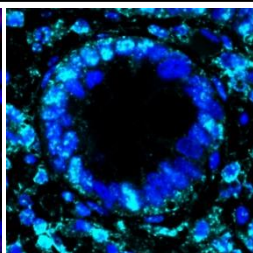
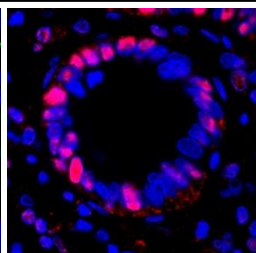
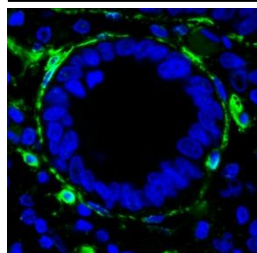


Multiplex IHC (HRP+AP)- Astrocytes M#1
(Enteric glia cells)+ **Astrocytes M#2 (colon)**

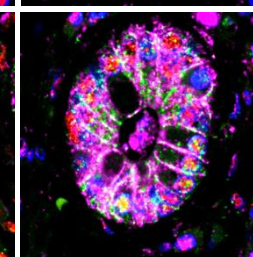
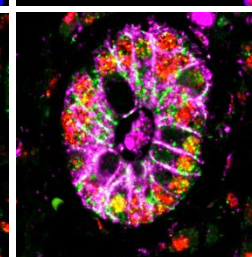
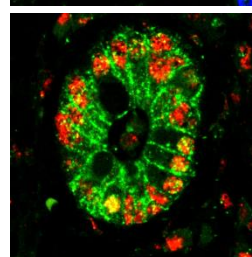
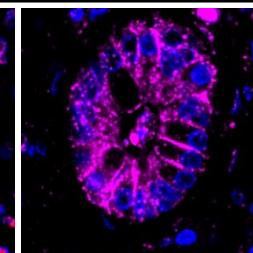
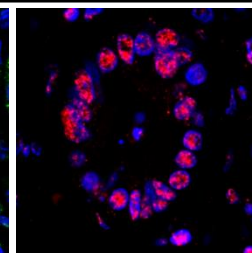
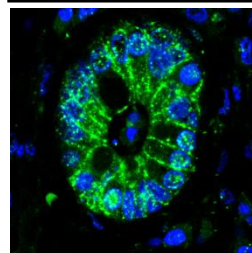


OPAL Multiplex Immunohistochemistry

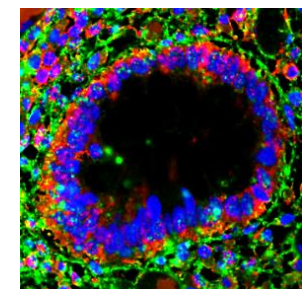
Fibroblasts M#1+ Proliferation M#2+ Cell signaling M#1



Cell-cell adhesion+ Hu cell Marker #1+ Epithel Marker #4



Astrocytes M#2+ ECM M#2



For details: Dr. Itay Spektor
+972-50-4690708
Itay@histospeck.com
www.histospeck.com

Histospeck now offers: **Ovary IHC Services**

Cells: Mesenchyme

M#1 + M#2 + M#3

For details:
Dr. Itay Spektor

+972-50-4690708

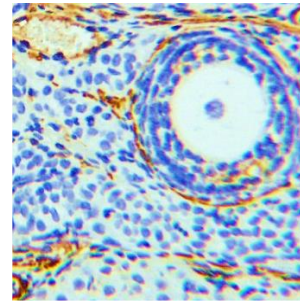
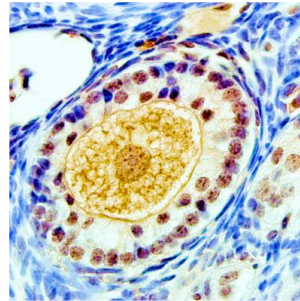
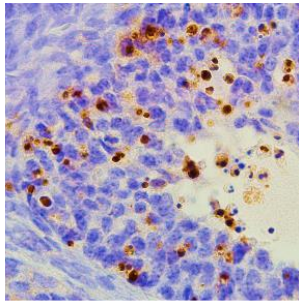
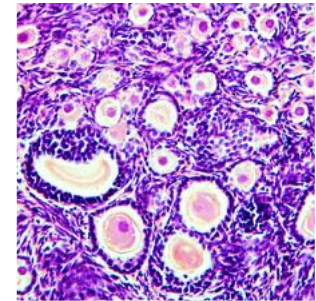
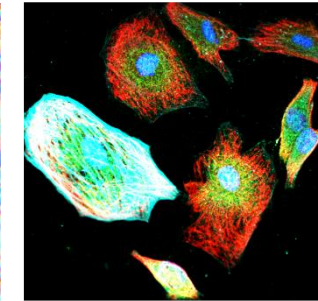
Itay@histospeck.com

www.histospeck.com

H&E (Morphology) **TUNEL (apoptosis)**

FOXO3A

Fibroblasts M#1



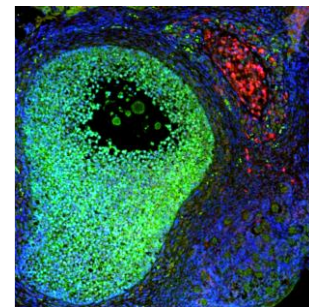
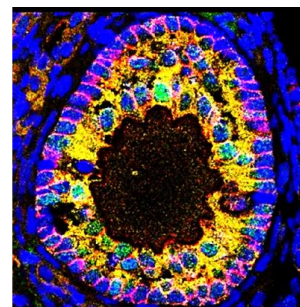
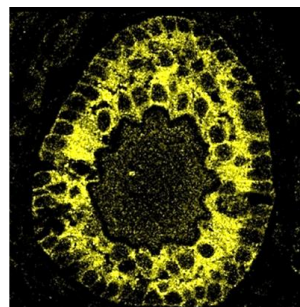
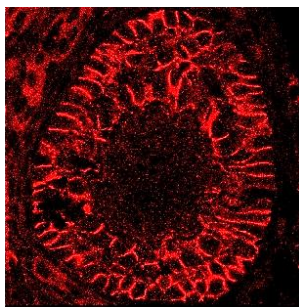
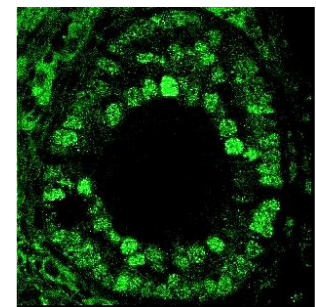
Proliferation M#2

Cell-cell adhesion

Hormone

Merged

SMAD3+SMAD 1/5/9

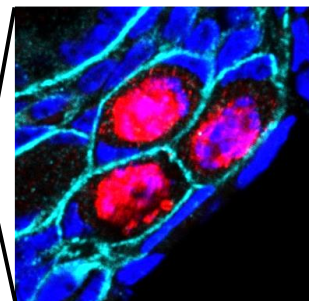
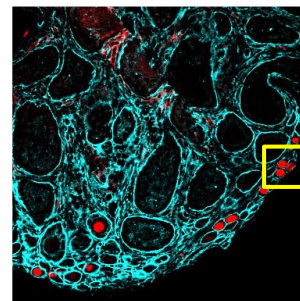
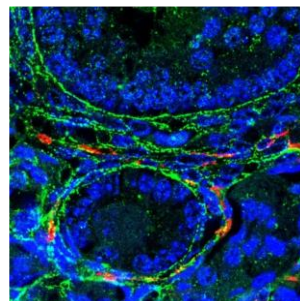
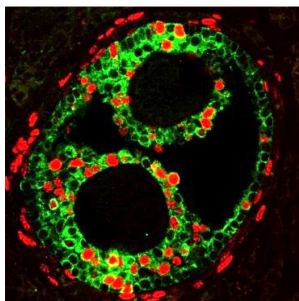
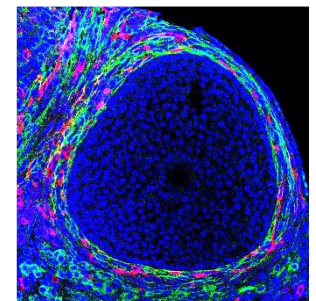


Neovascularization + Mesenchyme/Epithel

Proliferation M#1 + Hormone

Fibroblasts M#1 + Fibroblasts M#2

Germ Cells + ECM (marker#1)



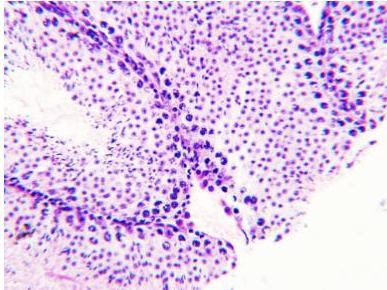
Histospeck now offers: **Testis IHC services**

H&E (Morphology)

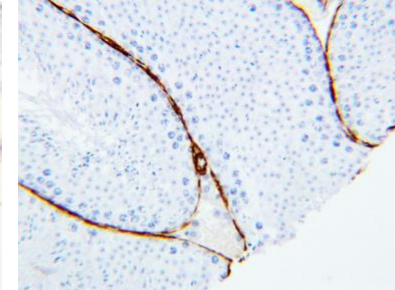
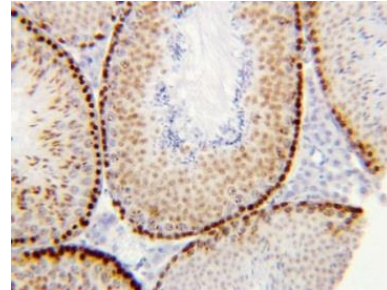
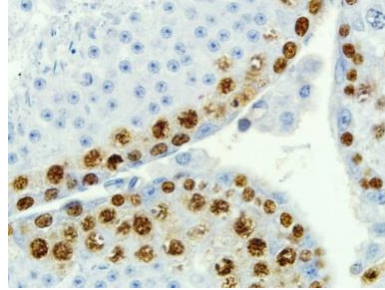
Proliferation

DS DNA Damage

Fibroblasts Marker #1



HRP



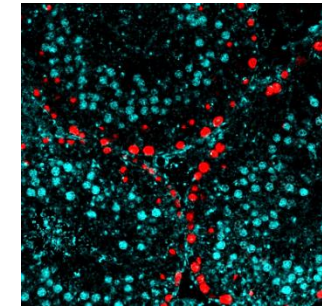
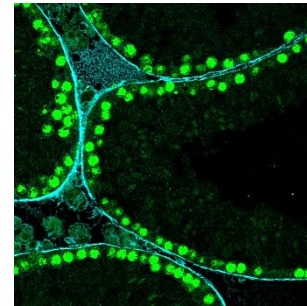
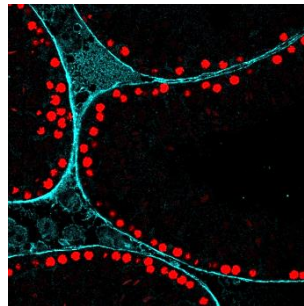
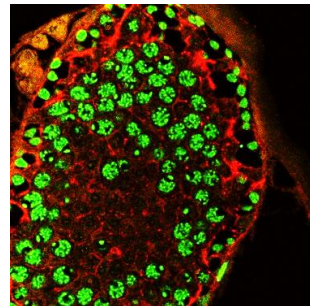
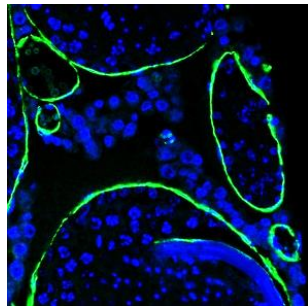
Fibroblasts M#1

**Proliferation M#2+
Cell-cell adhesion**

**Germ cells+
ECM Marker #1**

**Proliferation M#2+
ECM Marker#1**

**DS DNA Damage+
ECM Marker#2**



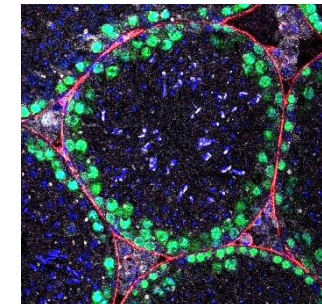
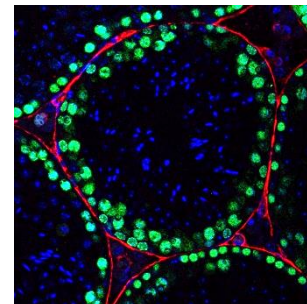
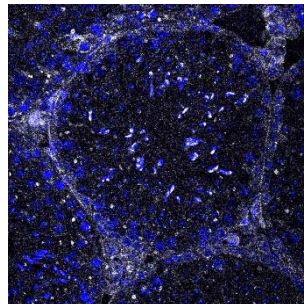
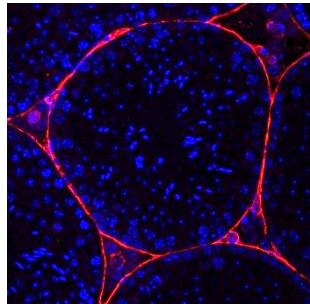
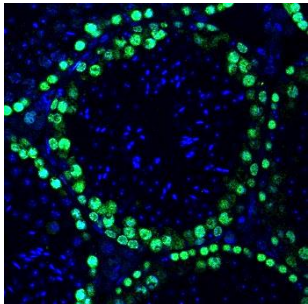
Proliferation M#2

**Neovascularization
Marker**

**Mesenchyme/
Epithel**

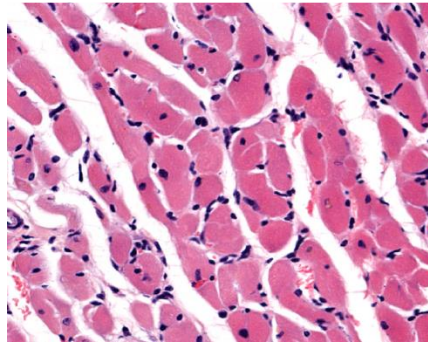
**Proliferation M#2+
Neovascularization**

Merged

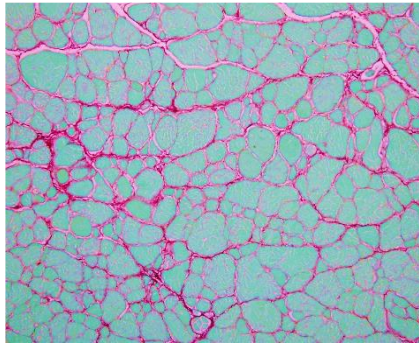


Histospeck now offers: **Muscle IHC services**

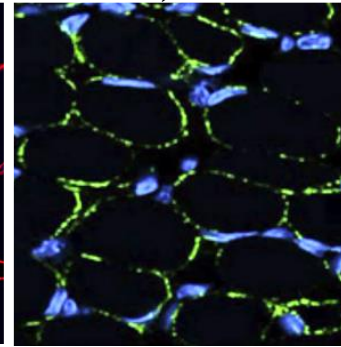
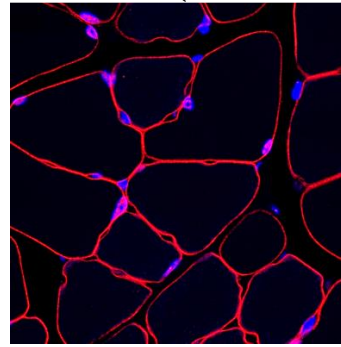
H&E
(Morphology)



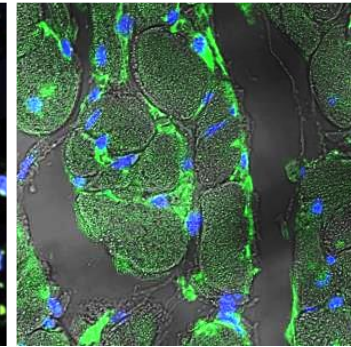
Sirius Red
(Collagen I+III)



Dystrophin
β- Dystroglycan
(Muscle-ECM connection)



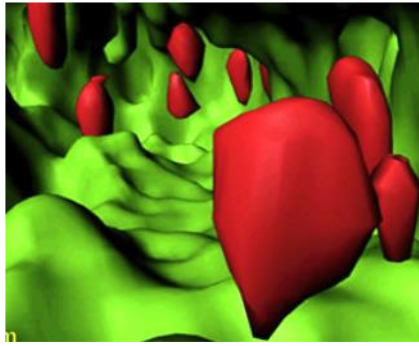
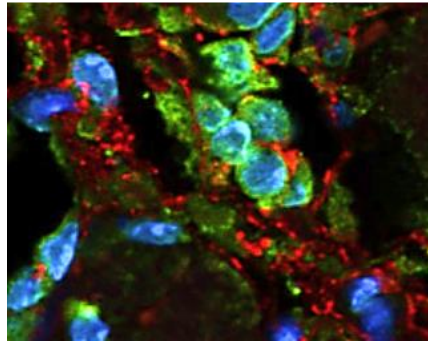
Fibroblasts M#1-
Heart Muscle



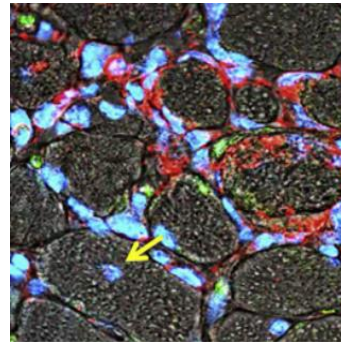
ECM marker#6+ ECM marker#2

IHC-F

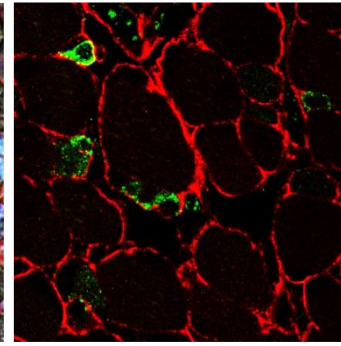
3D Reconstruction



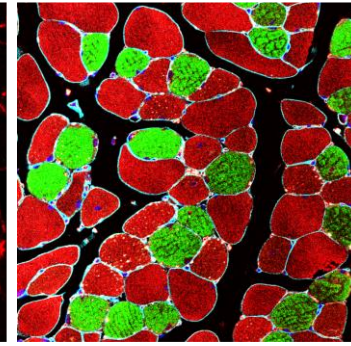
M0-M1 Macrophages M#5-
+Fibroblasts M#5



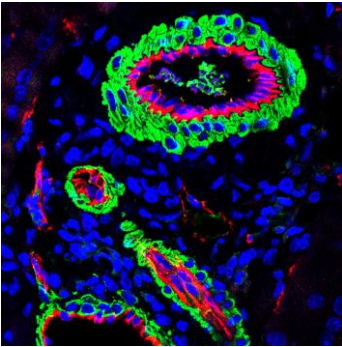
ECM Marker#4+
Fibroblasts M#1



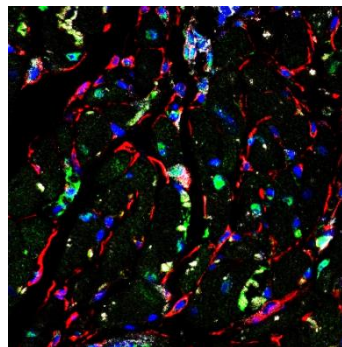
ECM M#1+ Slow
Muscle+ Fast Muscle



Gastrocnemius Muscle
Endothel Marker #1-
Fibroblasts M#1



Neo-vascularization M.+
Proliferation M#2+
Mesenchyme/Epithel



For details: Dr. Itay Spektor



+972-50-4690708

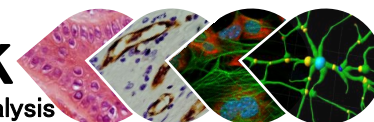


Itay@histospeck.com

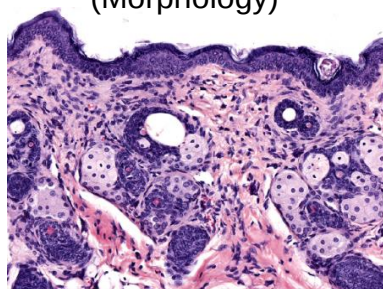


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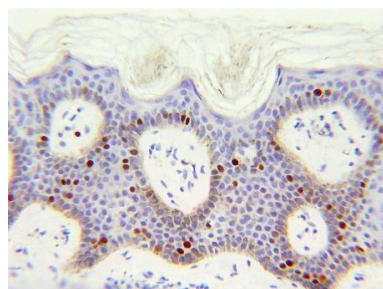
Histospeck now offers: **Skin IHC services**



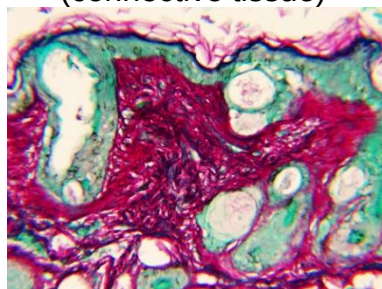
H&E
(Morphology)



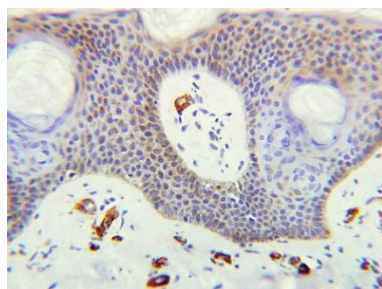
Proliferation Marker #1



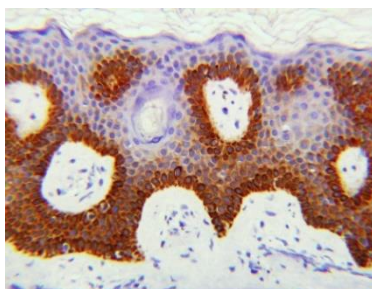
Picro-Sirius Red
(connective tissue)



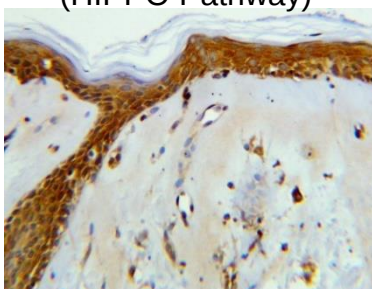
Fibroblasts Marker #1



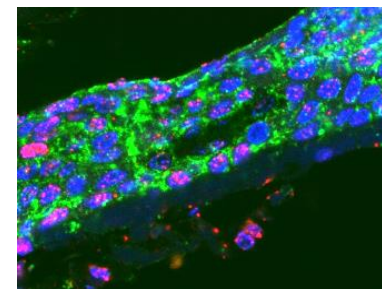
Epithel Marker #1



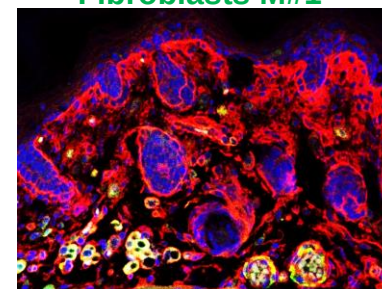
Cell signaling Marker #1
(HIPPO Pathway)



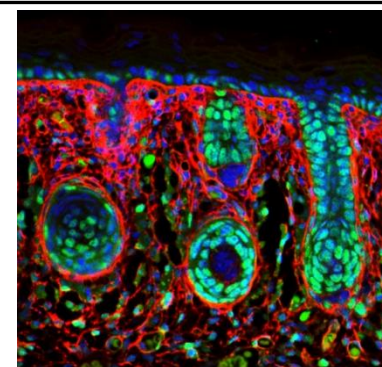
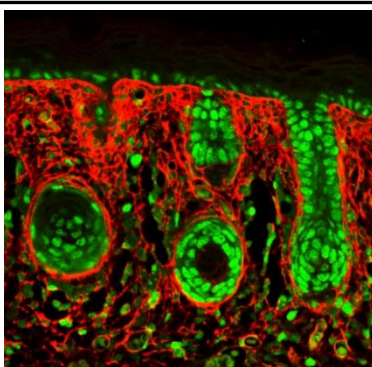
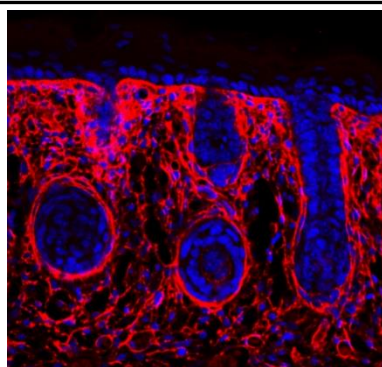
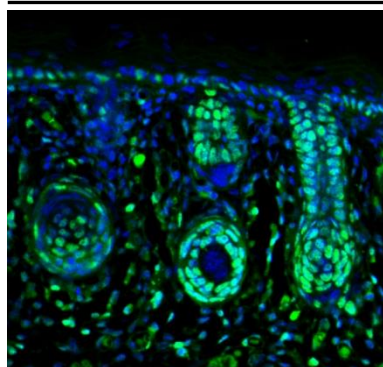
OPAL- DS DNA Damage+
Cell-cell adhesion



ECM Marker#1+
Fibroblasts M#1



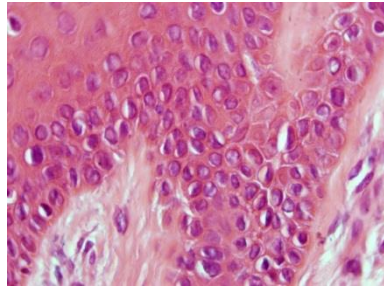
ECM Marker#4+ Proliferation Marker #2



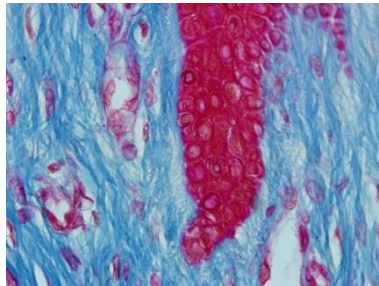
Histospeck now offers: **Peripheral Ossifying Fibroma IHC services**

Peripheral Ossifying Fibroma

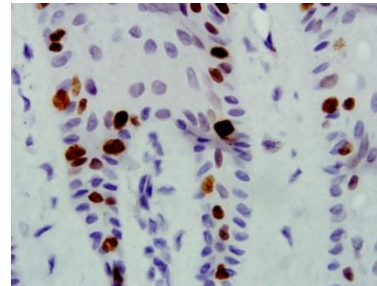
H&E
(Morphology)



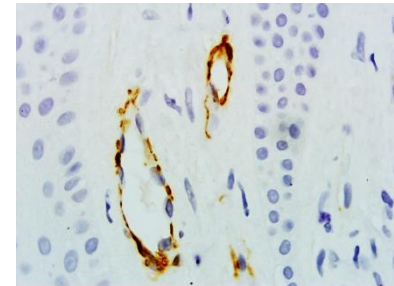
Masson Trichrome
(connective tissue)



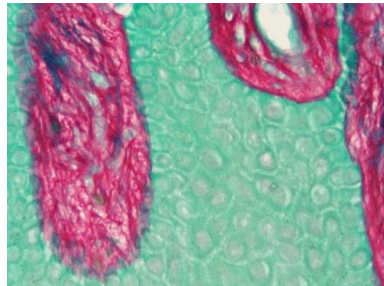
Proliferation Marker #1



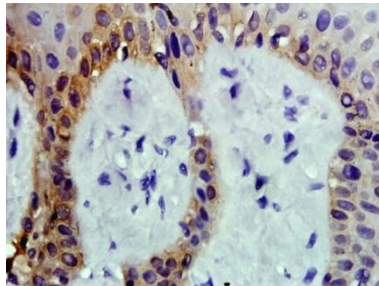
Fibroblasts Marker #1



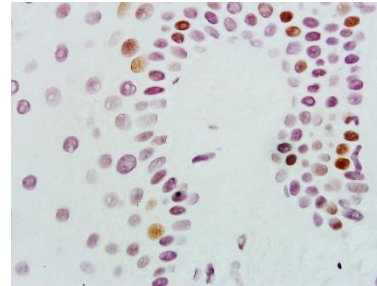
Picro Sirius Red (collagen)



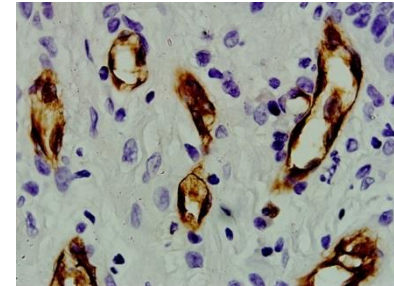
Epithel Marker #1



Apoptosis Marker #2



Endothel Marker #2



For details: Dr. Itay Spektor ☎ +972-50-4690708 ✉ Itay@histospeck.com 🌐 www.histospeck.com

Histospeck now offers: **Intestinal Disease IHC services**

Intestinal Disease

