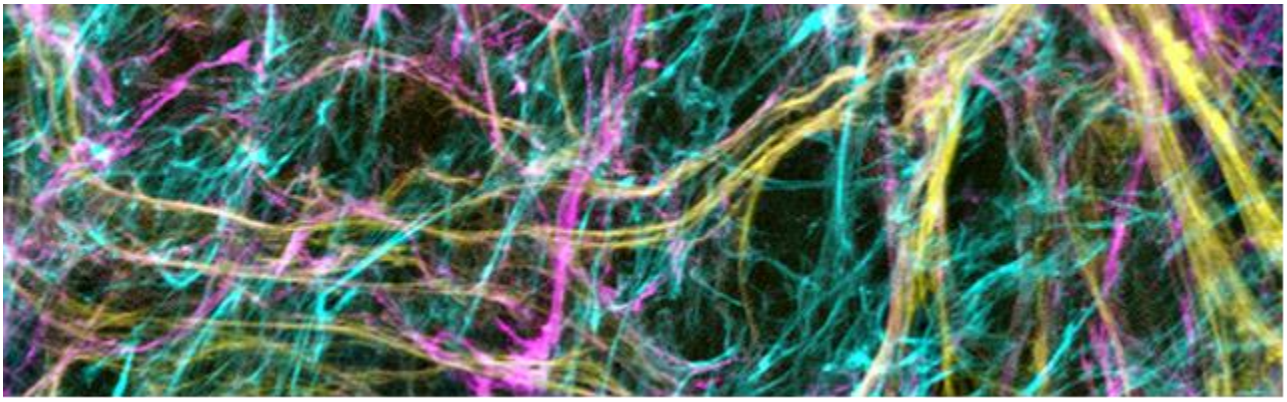
Image Title: **Human Fibroblastic Cell Derived Extracellular Matrix**

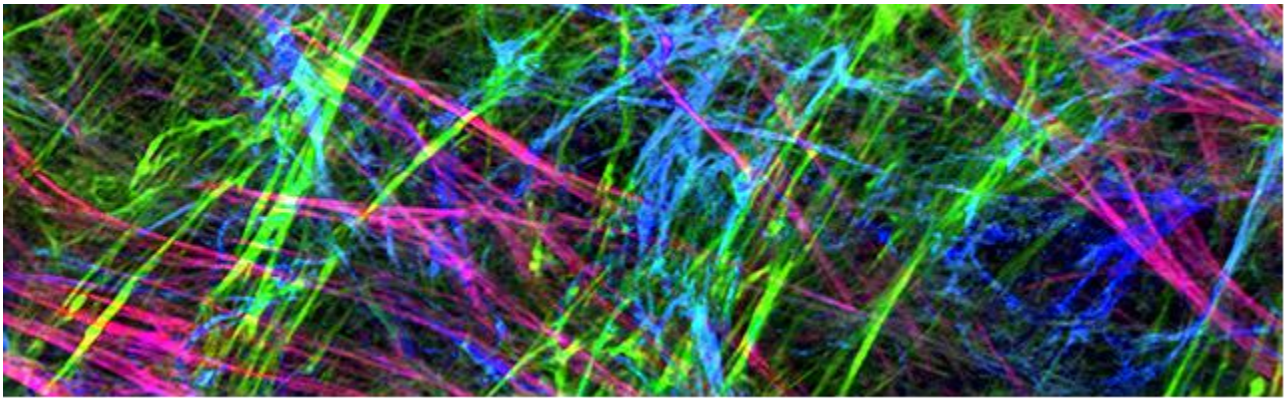
Image Description: Extracellular matrix is the microenvironmental material of a tissue that is produced by local cells. Typically, it is composed of protein polymers enriched with sugary branches (shown here are fibronectin fibers). It is also known for sequestering or storing and then liberating or activating growth, inflammatory and other factors, thus biochemically and/or biophysically affecting local cellular behavior. The confocal generated image shows 6 day chronological matrix deposition by fibroblastic cells. Chronological tagging of the cell-derived matrices (known as CDMs) was achieved by spiking individually colored fibronectin (as raw materials), and altering colors, every other day.



Edna Cukierman, *Fox Chase Cancer Center*

Image Title: **The Fabric of Life- Human Fibroblastic Cell Derived Extracellular Matrix**

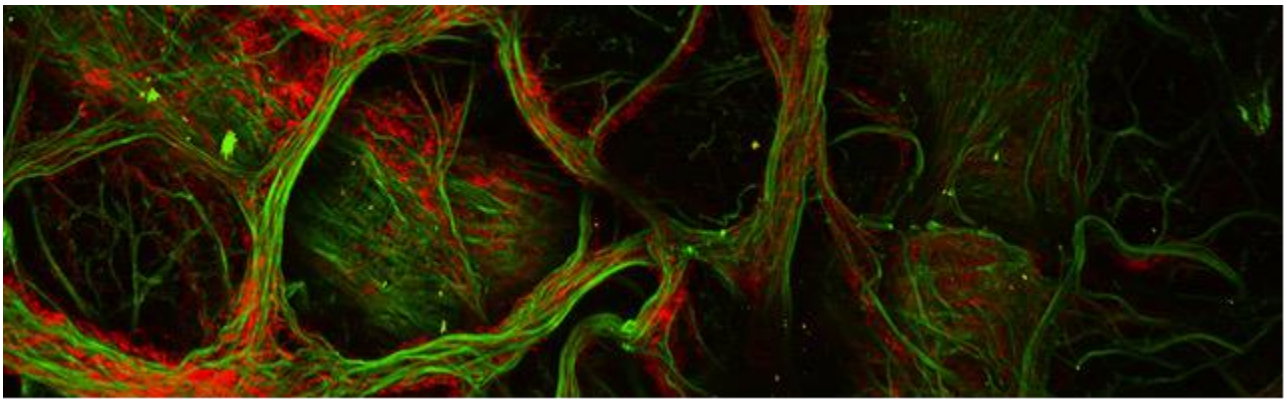
Image Description: Extracellular matrix is the microenvironmental material of a tissue that is produced by local cells. Typically, it is composed of protein polymers enriched with sugary branches (shown here are fibronectin fibers). It is also known for sequestering or storing and then liberating or activating growth, inflammatory and other factors, thus biochemically and/or biophysically affecting local cellular behavior. The confocal generated image shows 6 day chronological matrix deposition by fibroblastic cells. Chronological tagging of cell-derived matrices (or CDMs) was achieved by spiking individually fluorescently tagged fibronectin (as raw materials), and altering fluorophores every other day.



Edna Cukierman, *Fox Chase Cancer Center*

Image Title: **The Beauty in Disease**

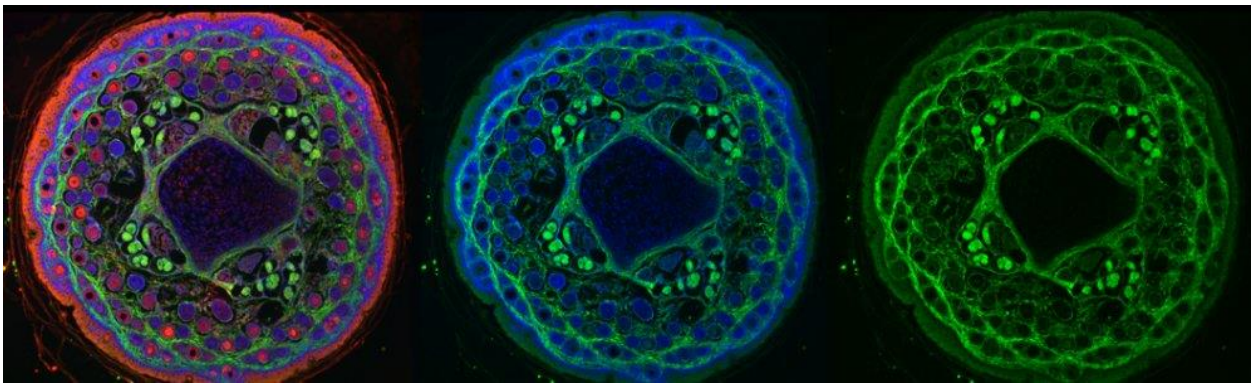
Image Description: Second harmonic imaging and 3D reconstruction of Collagen and Elastin in fibrotic lung disease



Anne Karina Perl, *Cincinnati Children's Hospital*

Image Title: **Stained Glass Collagen**

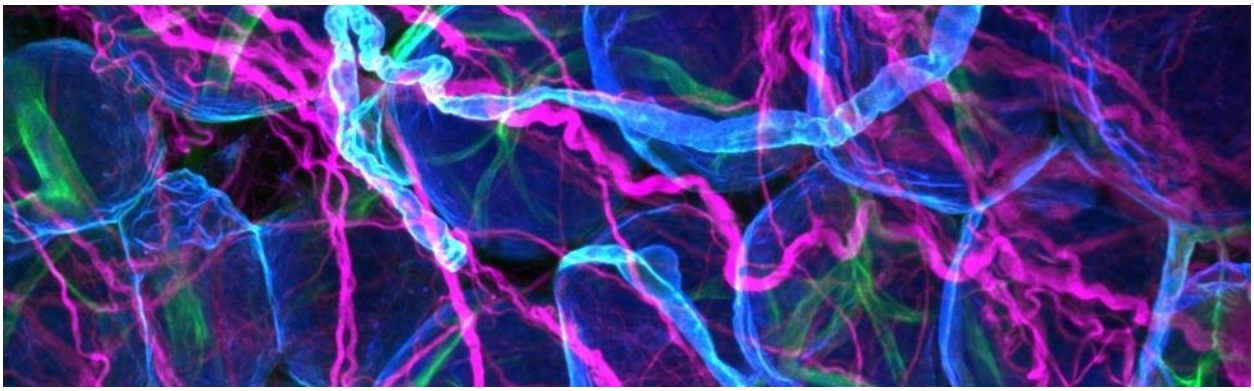
Image Description: Whole cross-section of mouse tail showing organisation of type 1 collagen (green), cells are stained with the protein chaperone Bip (red)



Adam Pickard, *University of Manchester*

Image Title: **The Matrix of the Fat**

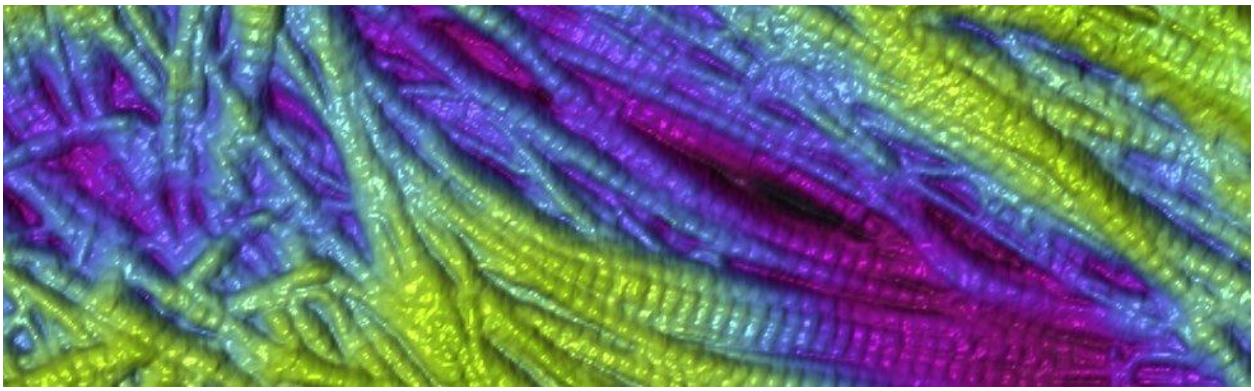
Image Description: 3D projection of the whole mount staining of fat associated with the lymph node for basement membrane components (pan-laminin in blue and perlecan in green) and collagen type III as part of interstitial matrix (magenta).



Eva Korpos, *Institute of Physiological Chemistry and Pathobiochemistry, University of Muenster*

Image Title: **Collagen Fibril Organisation within the Mouse Intervertebral Disc as Imaged by Atomic Force Microscopy**

Image Description: 3D rendering of height map data generated by AFM imaging of collagen fibrils within the annulus fibrosus of the mouse intervertebral disc. Image area 5x5 microns.



Honor Morris, *University of Manchester*