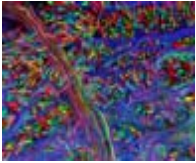

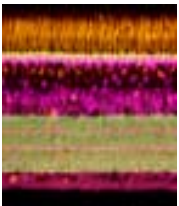
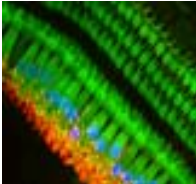
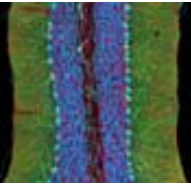

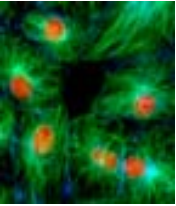
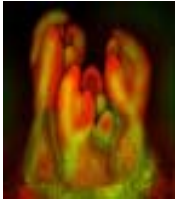

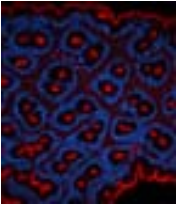
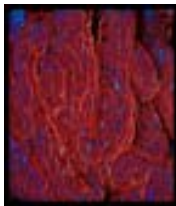



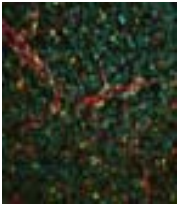
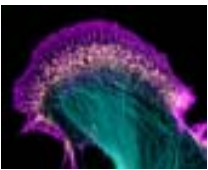
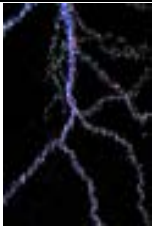

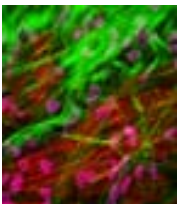
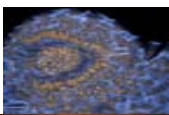
## GUIDE TO 2007 BIOSCAPES IMAGES

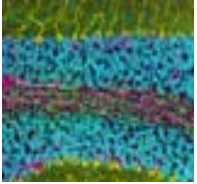
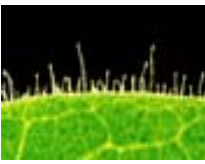
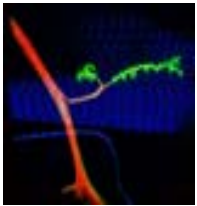
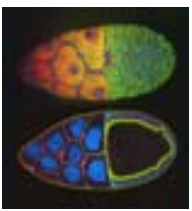

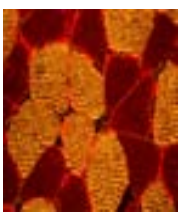
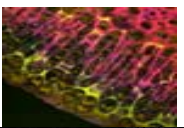
<i>Image</i>	<i>Pri ze</i>	<i>Name with Title</i>	<i>Larges t file</i>	<i>Caption - short form</i>
	1	Dr. Jean Livet	3.86 mb	Mouse brain stem. Montage image from a Brainbow transgenic mouse. In Brainbow mice, neurons randomly choose combinations of red, yellow and cyan fluorescent proteins, so that they each glow a particular color. This provides a way to distinguish neighboring neurons and visualize brain circuits. These are large caliber axons of the auditory pathway. Jean Livet, Harvard University, Cambridge, MA, USA. First Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	2	Mr. Glen MacDonald	30.2mb	Mammalian inner ear. Glen MacDonald, Virginia Merrill Bloedel Hearing Research Center, University of Washington, Seattle, WA, USA. Second Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	3	Mr. Andy Fischer	2.8mb	Chicken retina. Andy Fischer, Ohio State University, Columbus, OH, USA. Third Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	4	Dr. Sonja Pyott	1.4mb	Cochlea, sensory epithelium and hair cells in rat ear. Visualizing certain auditory components is a recent advance essential to research aimed at understanding the cellular and molecular basis of hearing. Dr. Sonja Pyott, UNC Wilmington, NC, USA. Fourth Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	5	Mr. Thomas Deerinck	36.8 mb	Rat cerebellum. Image is part of an ongoing effort to develop methods to enable the creation large-scale digital atlases of the brain. Thomas Deerinck, National Center for Microscopy and Imaging Research, University of California, San Diego, CA, USA. Fifth Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	6	Dr. Pat	8.9mb	Mitotic spindle in a dividing cell. Pat Wadsworth,

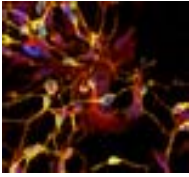
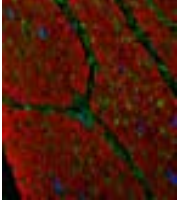
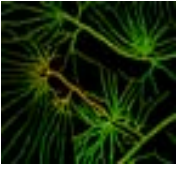

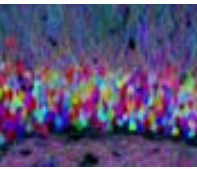


	8	Mr. Earl Nishiguchi	26.8mb	<i>Drosophila melanogaster</i> testis, the sperm-producing organ of the fruitfly. Earl Nishiguchi, University of Hawaii, Lihue, HI, USA. Eighth Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	9	Mr. Jan Schmoranzer	11.7mb	Serum starved fibroblasts. Four images stitched together. Jan Schmoranzer, Columbia University, New York, USA. Ninth Prize, 2007 Olympus BioScapes Digital Imaging Competition.
	10	Dr. M. R. Dadpour	712 kb	Gooseberry leaf primordia. M.R. Dadpour, University of Tabriz, Iran. Tenth Prize, 2007 Olympus BioScapes Digital Imaging Competition.

## HONORABLE MENTIONS IN ALPHABETICAL ORDER


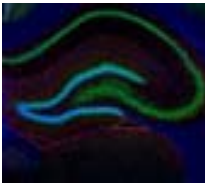

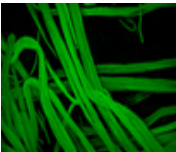



	HM 23	Dr. Hermann Aberle	2mb	<i>Drosophila</i> muscle filaments, confocal image. Hermann Aberle, Institute of Neurobiology, University of Münster, Münster, Germany. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 61	Dr. Paul Appleton	35.9mb	Mouse large intestine. Paul Appleton, University of Dundee, UK. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 67	Dr. Paul Appleton	35.9mb	Mouse bowel. Dr. Paul Appleton, University of Dundee, UK. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM	Dr. Eric Betzig,	1.8mb	VIDEO: Fox lung fibroblast cells. PALM microscopy.



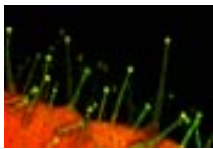
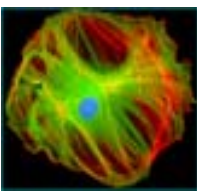
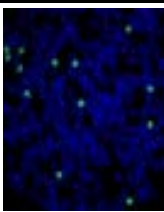
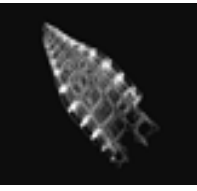


	HM 73	Mr. Roger Bick and Mr. Brian Poindexter	19.2 mb	VIDEO: Calcium fluxes in rat cardiomyocyte. Fluorescence spectrophotometry. Roger Bick and Brian Poindexter, University of Texas, Houston, TX, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 30	Dr. Chris Bjornsson	3mb	Rat cerebral cortex. Chris Bjornsson, Rensselaer Polytechnic Institute, Troy, NY, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 55	Mr. Dylan Burnette	17.4mb	<i>Aplysia californicus</i> snail neuronal growth cone in cell culture, showing the localization of myosin II. Dylan Burnette, Yale University, New Haven, CT, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 51	Dr. Barbara Calabrese	34.9mb	Rat hippocampal neuron, confocal imaging. Barbara Calabrese, The Scripps Research Institute, La Jolla, CA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 32	Mr. James Chell	2.4mb	Fruit fly larval brain. James Chell, The Gurdon Institute, Cambridge, UK. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 22	Dr. Ji-Xin Cheng	772 kb	Guinea pig spinal cord central nervous system depicted using coherent anti-Stokes Raman scattering (CARS) microscopy. Ji-Xin Cheng, Purdue University, West Lafayette, IN, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 25	Dr. Sherry Clendenon	3mb	Zebrafish eye. Confocal and multiphoton imaging combined. Sherry Clendenon, Indiana Center for Biological Microscopy, Department of Medicine, Indiana University, Indianapolis, IN, USA. Honorable

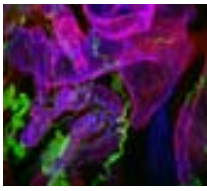

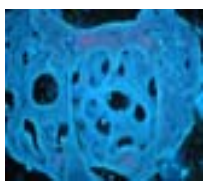
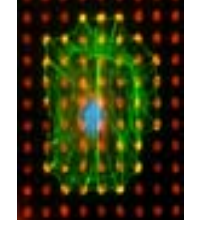
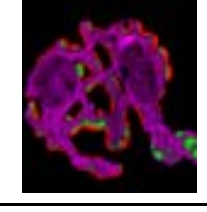
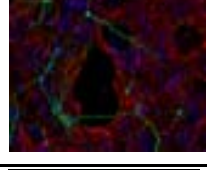

	HM 44	Mr. Thomas Deerinck	37.8mb	Rat cerebellum. Thomas Deerinck, National Center for Microscopy and Imaging Research, University of California, San Diego, CA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 27	Mr. Stefan Eberhard	11.2mb	Tobacco leaf with trichomes. Stefan Eberhard, The University of Georgia, Athens, GA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 33	Dr. Karin Edoff	1.2mb	Neuromuscular junction in <i>Drosophila</i> larvae. Karin Edoff, The Gurdon Institute, Cambridge, UK. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 48	Dr. Kevin Edwards	8.7 mb	Motile cells in a fly egg chamber. Kevin Edwards, Illinois State University, Normal, IL, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 59	Dr. Rachel Fink	344mb	Killifish ( <i>Fundulus heteroclitus</i> ) embryos at the four-cell stage. Rachel Fink, Mount Holyoke College, South Hadley, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 58	Ms. Irmgard Fischer	3mb	Skeletal muscle. Irmgard Fischer, Vienna, Austria. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 68	Dr. Jim Haseloff	3mb	Section through a frond on a brown alga fucus, confocal image. Jim Haseloff, University of Cambridge, Cambridge, UK. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.

	HM 37	Dr. Eric Hwang	3.8mb	Neuronally differentiated mouse embryonal carcinoma cells. Eric Hwang, The Scripps Research Institute, La Jolla, CA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 13	Dr. Nadia Jaafari	2.2mb	Smooth muscle cells of the human colon. Nadia Jaafari, University of Provence, Marseille, France. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 52	Dr. Eric Kalkman	3.8 mb	<i>N. crassa</i> , exhibiting hyperbranching, confocal image. Eric Kalkman, Wageningen University, Wageningen, The Netherlands. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 15	Dr. Jean Livet	952kb	"Brainbow" mouse brain, with each neuron expressing a distinct color. These are oculomotor nerve motor axons. Jean Livet, Harvard University, Cambridge, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 16	Dr. Jean Livet	1.9mb	"Brainbow" mouse brain, with each neuron expressing a distinct color. These are neurons of the hippocampus. Jean Livet, Harvard University, Cambridge, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 31	Mr. Mark Lloyd and Mr. Noel Clark	35.9mb	Bone density variation. Mark Lloyd and Noel Clark, Moffitt Cancer Center, Tampa, FL, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 20	Dr. Steve Lowry	12.9mb	Hen's tongue. Steve Lowry, University of Ulster, Coleraine, Northern Ireland, UK. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM	Dr. Steve	8.3mb	Scales from an oleaster leaf. Steve Lowry, University

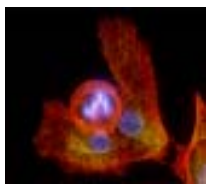

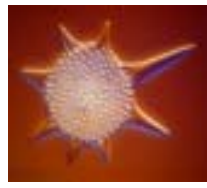
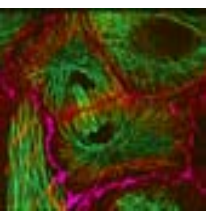

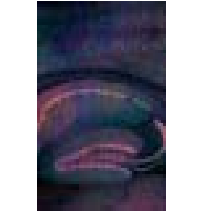
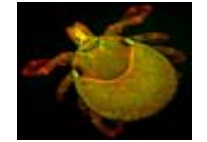


	HM 21	Dr. Jeffrey Mellott	7.4mb	Cat auditory cortex. Jeffrey Mellott, University of Western Ontario, London, Canada. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 18	Mr. Neal Melvin	1mb	Adult rat hippocampus. Neal Melvin, University of Lethbridge, Alberta, Canada. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 35	Dr. Marian Miller	3.4mb	Mouse glandular gastric mucosa. Confocal image. Marian Miller, University of Cincinnati College of Medicine, Cincinnati, OH, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 38	Dr. Carlos Alberto Muñoz	2.3mb	Microcoleus, a cyanobacteria. Carlos Alberto Muñoz, University of Puerto Rico, Mayaguez Campus, Puerto Rico. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 11	Dr. Stephen Nagy	8.7mb	Diatom exhibition by Klaus Kemp, 471 forms. Stephen Nagy, Helena, Montana, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 45	Mr. Earl Nishiguchi	9.3mb	<i>Drosophila melanogaster</i> testis and sperm, darkfield illumination. Earl Nishiguchi, University of Hawaii, Lihue, HI, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 69	Mrs. Margaret Oechsli	8.5 mb	Niacinamide. Polarized light image. Margaret Oechsli, Heart & Lung Institute, Jewish Hospital, Louisville, KY, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM	Dr. Ochsli	4.4mb	Confocal image of a testis from a <i>Drosophila</i> sp.

	HM 26	Dr. Shirley Owens	3mb	Chickory pollen grains sticking to the stigma. Shirley Owens, Flushing, MI, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 57	Dr. Heiti Paves	21.1mb	Oat trichomes with leaf hairs. Confocal image. Heiti Paves, Tallinn, Estonia. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 66	Dr. Heiti Paves	17.5mb	<i>Nicotiana benthamiana</i> (tobacco) trichomes. Heiti Paves, Tallinn, Estonia. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 36	Mr. Donald Pottle	1.1mb	Normal endothelial cell. Donald Pottle, Schepens Eye Institute, Boston, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 49	Mr. Tobias Ragoczy	9.7 mb	Erythroleukemia cells in metaphase, an example of aberrant polyploid cells. Tobias Ragoczy, Fred Hutchinson Cancer Research Center, Seattle, WA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 50	Mr. Piotr Rotkiewicz	316 kb	Fossil skeleton of a polycystine radiolaria. Darkfield, stack of 30 images. Piotr Rotkiewicz, San Diego, CA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 47	Dr. Greg Rouse	1.8mb	Darkfield image of a live syllid polychaete in sediment. Greg Rouse, Scripps Institution of Oceanography, La Jolla, CA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 70	Dr. Glaucia M. Machado-	4.7mb	Insect salivary gland chromosomes. Glaucia M. Machado-Santelli, University of Sao Paulo, Brazil.

	HM 60	Dr. Mona Selim	4mb	Submucosa of normal human small intestine. Red and purple are blood vessels and very large lymphatics; nerves are green. Mona Selim, University of Minnesota, Minneapolis, MN, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 54	Mr. Shamuel Silberman	9 mb	Bones inside the fin of a very small fish. Fiber optic illumination. Shamuel Silberman, Ramat Gan, Israel. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 24	Mr. Pavel Škaloud	3mb	<i>Microcystis aeruginosa</i> , confocal image. Pavel Škaloud, Department of Botany, Faculty of Sciences, Charles University in Prague, Czech Republic. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 28	Dr. Nathan Sniadecki	640 kb	Mouse 3T3 fibroblast, epi-fluorescence image. Nathan Sniadecki, University of Washington, Seattle, WA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 64	Dr. Young-Jin Son	412 kb	Mouse neuromuscular junction. Confocal image. Young-Jin Son, Drexel University, Philadelphia, PA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 39	Mr. James Striebel and Ms. Melissa Pathmajeyan	1.6 mb	Mouse neurons and astrocytes. James Striebel and Melissa Pathmajeyan, National Institutes of Health, Corvallis, MT, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 19	Mr. Victor Sýkora	19.1mb	<i>Clematis</i> flower. Viktor Sýkora, Hyskov, Czech Republic. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.



	HM 40	Dr. U. Serdar Tulu	6.4mb	One dividing cell surrounded by two cells at interphase. U. Serdar Tulu, Duke University, Durham NC, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 43	Mr. Wim van Egmond	6.6mb	Comet moth wing scales. Wim van Egmond, Rotterdam, The Netherlands. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 65	Mr. Wim van Egmond	2.3mb	Heliodiscus, a radiolarian. Wim van Egmond, Rotterdam, The Netherlands. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 62	Dr. Pat Wadsworth	8.9mb	Cultured cell in anaphase. Confocal image. Pat Wadsworth, University of Massachusetts, Amherst, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 14	Dr. Family Weissman	49.8mb	"Brainbow" mouse cerebral cortex. Family Weissman, Harvard University, Cambridge, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 17	Dr. Family Weissman	50mb	"Brainbow" mouse hippocampus and cerebral cortex neurons, with several fields montaged together. Family Weissman, Harvard University, Cambridge, MA, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.
	HM 46	Mr. Robert Zucker	7.8mb	Tick stained with propidium iodide, imaged with 2 lasers; images merged. Robert Zucker, Environmental Protection Agency, Research Triangle Park, North Carolina, USA. Honorable Mention, 2007 Olympus BioScapes Digital Imaging Competition.