

2016 Calendar Magnificent Discoveries in Biology

Great scientists who left their stamp on our world.



2016 Year Planner

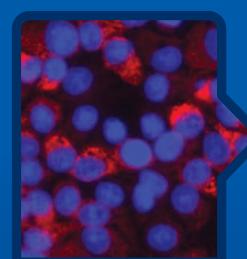
		JANUARY			FEBRUARY			MARCH			APRIL		MAY				JUNE
F	1		М	1	5	Т	1		F	1		S	1		W	1	
S	2		Т	2		W	2		S	2		М	2	18	т	2	
S	3		W	3		т	3		S	3		Т	3		F	3	
М	4	1	Т	4		F	4		М	4	14	W	4		S	4	
Т	5		F	5		S	5		Т	5		Т	5		S	5	
W	6		S	6		S	6		W	6		F	6		М	6	23
Т	7		S	7		М	7	10	Т	7		S	7		Т	7	
F	8		М	8	6	Т	8		F	8		S	8		W	8	
S	9		Т	9		W	9		S	9		М	9	19	Т	9	
S	10		W	10		Т	10		S	10		Т	10		F	10	
М	11	2	Т	11		F	11		М	11	15	W	11		S	11	
т	12		F	12		S	12		Т	12		т	12		S	12	
W	13		S	13		S	13		W	13		F	13		Μ	13	24
Т	14		S	14		М	14	11	Т	14		S	14		Т	14	
F	15		Μ	15	7	Т	15		F	15		S	15		W	15	
S	16		Т	16		W	16		S	16		Μ	16	20	Т	16	
S	17		W	17		Т	17		S	17		Т	17		F	17	
М	18	3	Т	18		F	18		Μ	18	16	W	18		S	18	
Т	19		F	19		S	19		Т	19		Т	19		S	19	
W	20		S	20		S	20		W	20		F	20		Μ	20	25
Т	21		S	21		Μ	21	12	Т	21		S	21		Т	21	
F	22		Μ	22	8	Т	22		F	22		S	22		W	22	
S	23		Т	23		W	23		S	23		М	23	21	Т	23	
S	24		W	24		Т	24		S	24		Т	24		F	24	
Μ	25	4	Т	25		F	25		Μ	25	17	W	25		S	25	
Т	26		F	26		S	26		Т	26		Т	26		S	26	
W	27		S	27		S	27		W	27		F	27		Μ	27	26
Т	28		S	28		Μ	28	13	Т	28		S	28		Т	28	
F	29		М	29	9	т	29		F	29		S	29		W	29	
S	30					W	30		S	30		Μ	30	22	Т	30	
S	31					Т	31					Т	31				

		JULY			AUGUST			SEPTEMBER			OCTOBER		NOVEMBER				DECEMBER
F	1		М	1	31	т	1		S	1		Т	1		Т	1	
S	2		т	2		F	2		S	2		W	2		F	2	
S	3		W	3		S	3		М	3	40	Т	3		S	3	
М	4	27	т	4		S	4		Т	4		F	4		S	4	
т	5		F	5		М	5	36	W	5		S	5		М	5	49
W	6		S	6		т	6		Т	6		S	6		Т	6	
т	7		S	7		W	7		F	7		М	7	45	W	7	
F	8		М	8	32	т	8		S	8		Т	8		Т	8	
S	9		т	9		F	9		S	9		W	9		F	9	
S	10		W	10		S	10		М	10	41	Т	10		S	10	
М	11	28	Т	11		S	11		Т	11		F	11		S	11	
Т	12		F	12		М	12	37	W	12		S	12		М	12	50
W	13		S	13		т	13		Т	13		S	13		Т	13	
Т	14		S	14		W	14		F	14		М	14	46	W	14	
F	15		М	15	33	т	15		S	15		Т	15		Т	15	
S	16		т	16		F	16		S	16		W	16		F	16	
S	17		W	17		S	17		М	17	42	Т	17		S	17	
М	18	29	т	18		S	18		Т	18		F	18		S	18	
Т	19		F	19		М	19	38	W	19		S	19		М	19	51
W	20		S	20		т	20		Т	20		S	20		Т	20	
Т	21		S	21		W	21		F	21		М	21	47	W	21	
F	22		М	22	34	Т	22		S	22		Т	22		Т	22	
S	23		Т	23		F	23		S	23		W	23		F	23	
S	24		W	24		S	24		М	24	43	Т	24		S	24	
М	25	30	Т	25		S	25		Т	25		F	25		S	25	
Т	26		F	26		Μ	26	39	W	26		S	26		М	26	52
W	27		S	27		Т	27		Т	27		S	27		Т	27	
Т	28		S	28		W	28		F	28		М	28	48	W	28	
F	29		Μ	29	35	Т	29		S	29		Т	29		Т	29	
S	30		Т	30		F	30		S	30		W	30		F	30	
S	31		W	31					М	31	44				S	31	



Reput(Ab)le Antibodies We're validated. We're guaranteed. We're published.

We create the antibodies most cited by the research community.



HCV infected HepG2 human hepatoma cells stained with Anti-Hepatitis C Virus, helicase domain NS3 (Catalog No. MAB8691).

Master Master

Antonie van Leeuwenhoek

Dutch cloth merchant who initially developed powerful microscopes for examining fabric. He was the first to describe single-cell organisms, which he called "animalcules" in his letters to the Royal Society of London. Thanks to his many and meticulous reports, Leeuwenhoek's work was widely read and ultimately respected.



'Animalcules' observed by van Leeuwenhoek.

2016

EMD Millipore provides the tools you need to advance your life science research. Rely on us for innovative platforms for protein and cellular analysis:

- Scepter[™] 2.0 Automated Cell Counter
- Muse[®] Cell Analyzer
- guava easyCyte[™] Flow Cytometers
- Amnis[®] Imaging Flow Cytometers
- CellASIC® ONIX Live Cell Analysis Platform
- Luminex[®] Instruments, MILLIPLEX[®] Kits and Software
- Direct Detect® Spectrometer
- SNAP i.d.[®] 2.0 System for Western blotting and IHC
- GyroMark[™] HT Kits
- ELISA kits and RIAs
- Validated Antibodies
- Small Molecule Inhibitors

Died 1723 A.D.



Born 1632 A.D.

Whenever I found out anything remarkable, I have thought it my duty to put down my discovery on paper, so that all ingenious people might be informed thereof.
-Antonie van Leeuwenhoek

January

► TECHNOLOGY HIGHLIGHT

Scepter[™] 2.0 Portable Cell Counter

Precise, handheld cell counting

While other automated counters consume bench space and rely on object recognition software, manual focusing, and clumsy loading chambers, the Scepter[™] 2.0 portable cell counter provides true automation without the error that accompanies vision-based systems. With its microfabricated, precision-engineered sensor, the Scepter[™] cell counter does all the work and delivers accurate and reliable cell counts in less than 30 seconds.

www.emdmillipore.com/scepter

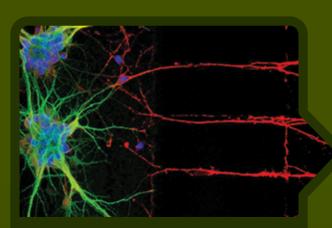


SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
DECEMBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	FEBRUARY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29				New Year's Day	2
		International Conference E	Biomolecular Engineering (IC	BE) • Singapore (5th-7th)		
3	4	5	6	7	8	9
Winter Conference on Plas	ma Spectrochemistry • Tuc	son, AZ, USA (10th-16th)				
					American Society for Perip Scottsdale, AZ, USA (15th-	heral Nerve Annual Mtg. 17th)
10	11	12	13	14	Pongal 15	16
American Society for	CHI PepTalk • San Diego, C	CA, USA (18th-22nd)				Society for Laboratory
Peripheral Nerve Annual Mtg. Scottsdale, AZ, USA (15th-17th)						Automation & Screening (SLAS) Conference & Exhibition San Diego, CA, USA (23rd-27th)
17	Martin Luther King Jr. Day (US)	19	20	21	22	• 23
24 Society for Labor San Diego, CA, L	ratory Automation & Screen JSA (23rd-27th)	ing (SLAS) Conference and E	xhibition	A Matter of Life or Death: Amsterdam, Netherlands		
	14th Cytokines & Inflamm San Diego, CA, USA (25th	ation Conference -26th)				
31	25	26	27	28	29	30



Reput(Ab)le Antibodies We're validated. We're guaranteed. We're published.

We create the antibodies most cited by the research community.



Immunocytochemical staining of mouse Balb/c P3 mixed cortical neuron culture. Somas and dendrites are stained with anti-MAP2 (Catalog No. MAB3418, green), axons are stained using anti-βIII tubulin (Catalog No. AB15708, red), and nuclei are counterstained with DAPI (blue).

Tissue Culture Trailblazer

Ross Granville Harrison

American anatomist who was the first to culture animal tissues. Harrison laid the foundation for modern cell culture by testing the hypothesis that tissues cultured *in vitro* would respond differently depending on the composition of the contacting fluid/medium. Harrison constantly questioned how assembling cells *in vitro* could accurately represent the whole organism, a question we are still trying to answer today.



Outgrowth and defasciculation of axons and growth cones in culture, as drawn by Harrison.

2016

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EMD Millipore provides quality tools to advance your stem cell research. Whether you are culturing stem cells, inducing pluripotency, studying differentiation, or characterizing stem cell populations, you can count on us for the tools you need:

- Antibodies (targets such as Oct-4, TRA, Sox, SSEA, Wnt, Lin-28, Nestin, Nanog, Human Nuclei, Human Mitochondria)
- Inhibitors (for Wnt, Shh, Notch, and TGF- β signaling)
- Characterization Kits (such as those for ES cells, ES/iPS Cells, Neural Stem Cells, Endothelial Cells, Human Mesenchymal Stem Cell, Human Oligodendrocytes, and more)
- Human Cell Systems (Pluripotent Human ES Cells, Neural Stem Cells, Mesenchymal Stem Cells, Primary Human Cells, and more)
- Rodent Cell Systems (Pluripotent Mouse ES Cells, PMEFs, Mouse Embryo Culture, Multipotent Rodent Stem Cells)
- Cellular Reprogramming (Simplicon[™] RNA Reprogramming, STEMCCA[™] Reprogramming Technology, Reprogramming Boost Kits, iPS Cell Characterization)
- Media and Reagents (including Cytokines, Growth Factors, ECM Proteins)
- Cultureware and Coated Plates
- AldeRed[™] ALDH Detection Assay

Died 1959 A.D.

1910 A.D.

Born 1870 A.D.

****** ...we are still confronted [...] with this most significant but perplexing problem of biology: how an organism can be made up of independently working parts, and, at the same time, have the whole represented in each part. ******

-Ross Granville Harrison

February

► TECHNOLOGY HIGHLIGHT

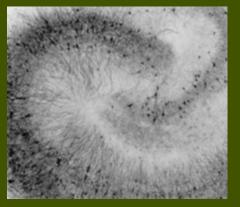
Millicell[®] Cell Culture Inserts

Hanging Millicell[®] inserts provide an additional level of flexibility for users who need to remove inserts for media feeding, changes, and monolayer analysis. Millicell[®] inserts are available in three sizes for 24-, 12- or 6-well plates.

Our patented plate design incorporates unique features meant to optimize your cell culture including an apical assist, access ports for basolateral access, a tear-drop well design, and full ANSI/SBS-automation compatibilities.

Find out how these and other novel plate characteristics contribute to greater convenience and reproducibility and translate into value for your specific application.

www.emdmillipore.com/millicell



Hippocampal explant grown on Millicell® organotypic insert in 1.5 mM Mg Hanks buffer.

SUNDAY		MONDA	١Y	TUESDAY	WEDNESDA	Y	THURSDAY	FRIDAY		SATURDAY
JANUARY S M T W T 3 4 5 6 7 4 10 11 12 13 14 1 17 18 19 20 21 2	1 2 8 9 15 16									
24 25 26 27 28 2 31	29 30		1	Groundhog Day 2		3	4		5	6
International Confe	erence o	n Nanoscience ar	nd Nanotec	hnology (ICONN) • Canberr	a, Australia (7th-11th	n)				
The Cancer Genome	e • Ban	ff, Canada (7th-1	1th)							
				Ageing 2016 • London, Uk	(9th-11th)					
							AAAS Annual Meeting • V	Vashington, D.C., USA (11th-	-15th)
	7	Lunar New Year	8	9	Ash Wednesday	10	11	Lincoln's Birthday	2	13
 AAAS Annual Me Washington, D.C. 	eeting ., USA (11th-15th)								ABRF Ft. Lauderdale, FL, USA (20th-23rd)
valentine's Day	14	Presidents' Day Nirvana Day	15	16		17	18	1	9	20
◀ ABRF ● Ft. Laude	rdale, F	L, USA (20th-23rd	1)							Biophysical Society
										60th Annual Meeting Los Angeles, CA, USA (27th-Mar 2nd)
	21	•	22	23		24	25	2	6	27
 Biophysical Socie 	ety 60t	h Annual Meeting	• Los Ang	eles, CA, USA (27th-Mar 2n	d)					MADOU
	28		29	1		2	3		4	MARCH S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Suit(Ab)le Antibodies

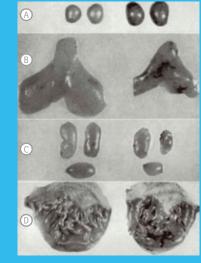
We're selective. We're specific. We're scientists.

We create the antibodies that are most relevant for today's research needs.

Stress Detector

Hans Selye

Endocrinologist of Austro-Hungarian origin and working in Canada, who first described the biological stress response, publishing over 1,000 papers on the topic. His work revealed that, regardless of the specific nature of the stressor, the body responded with the same or similar set of molecular and cellular events. Later researchers showed that psychosocial stress appears to increase oxidative stress and accelerate biological aging.



Hydrogen peroxide-treated HeLa cells stained using Anti-NF-E2-related factor 2 (Catalog No. ABE413, red). Actin filaments

are shown in green. Nuclei are stained with

DAPI (Blue). Cytoplasmic staining is incresed under oxidative stress.

The typical triad of the "general alarm reaction". (A) adrenals, (B) thymus, (C) iliac lymph nodes, and (D). gastric mucosa of a normal rat (left) and one which was exposed to the frustrating mental stress of being immobilized on a metal board for 24 h. (Selye H. 1952).

2016

EMD Millipore provides quality tools to advance your oxidative stress research. Investigate the mechanisms of oxidative stress using validated antibodies, small molecule inhibitors, oxidation detection kits, and more.

Our oxidative stress detection kits provide all chemical and immunological reagents necessary to perform quantitative and qualitative detection of carbonyl groups introduced into proteins by oxidative reactions with oxygen free radicals and other reactive species. These kits enable a simple and sensitive measurement of protein oxidation using various techniques.

Choose from:

- OxyBlot[™] Protein Oxidation Detection Kit (Catalog No. S7150)
- OxyELISA[™] Oxidized Protein Quantitation Kit (Catalog No. S7250)
- OxyICC[™] Oxidized Protein Detection Kit (Catalog No. S7350)
- OxyIHC[™] Oxidized Protein Detection Kit (Catalog No. S7450)

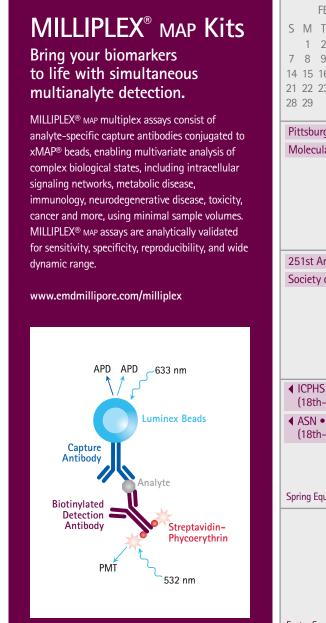
Died 1982 A.D.

1936A.D.

Born 1907 A.D.

March

Adopting the right attitude can convert a negative stress into a positive one.
-Hans Selye



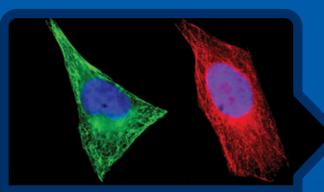
► TECHNOLOGY HIGHLIGHT

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FEBRUARY S M T W T F S		 Biophysical Society 60 Los Angeles, CA, USA (I 				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27						
28 29		Daylight Savings (US)	2	3	4	5
	Analytical Chemistry and Ap		I®) ● Atlanta, GA, USA (6th-	10th)		
	 San Francisco, CA, USA (6th 	1-11th)				
6	7	8	9	10	11	12
	Society National Meeting &				International Conference of Sciences 2016 (ICPHS) • Ig	
Society of loxicology's 55	th Annual Meeting and ToxE 1st International Conferen	ce on Applied Chemistry (IC	1	h–17th)	American Society for Neur	ochemistry (ASN)
					Denver, CO, USA (18th-201	
13	14	15	16	St. Patrick's Day	18	19
◀ ICPHS ● Ipoh, Malaysia (18th-20th)						
 ASN • Denver, CO, USA (18th-20th) 						
Spring Equinox 20	Human Rights Day 21	• 22	Holi 23	24	Good Friday 25	26
						APRIL
						SMTWTFS 12
						3 4 5 6 7 8 9 10 11 12 13 14 15 16
Easter Sunday 27	Easter Monday 28	29	30	31	1	1718192021222324252627282930

Verifi(Ab)le Antibodies

Lot to lot. Experiment to experiment.

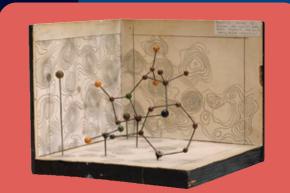
Our Anti-Fail testing guidelines meet your most demanding expectations.



Immunostaining for β -Tubulin in HeLa cells using Anti- β -Tubulin Antibody, clone AA2, conjugated to Alexa Fluor[®] 488 conjugate (Catalog No. 16–230, green) or Alexa Fluor[®] 555 (Catalog No. 16-231, red).

X-ray Crystallography Expert

British biochemist who, together with John Bernal, obtained the first x-ray crystallographic structure of a protein. Hodgkin went on to determine the structures of penicillin, vitamin B12, and insulin. In 1964, she became the third woman to win the Nobel Prize in chemistry (after Marie Curie and Irene Joliot-Curie).



Molecular model of penicillin by Dorothy Hodgkin, c. 1945. Science Museum London.

2016

EMD Millipore provides quality tools to advance your cell structure research. Just as X-ray crystallography has served as an excellent tool to study molecular structure, antibodies are the perfect tool to study cellular structure.

Advance your cell structure research with validated antibodies and potent small molecules to targets such as:

- Cytoskeletal proteins (such as Actin, Tubulins, Microfilaments)
- Cell Adhesion proteins (such as α Integrins, β integrins)
- Extracellular Matrix elements (such as Collagen, Fibronectin, Laminin, Tenascin)
- Matrix Metalloproteinases and Proteases (such as MMPs, TIMPs, ADAMs)

EMD Millipore also offers a range of research products for your cell structure studies, including proteins, enzymes, migration and invasion assays, cultureware, media, and more.

Died 1994 A.D.

1945 A.D.

Born 1910 A.D.

⁶ There's the moment when you know you can find out the answer and that's the period you are sleepless before you know what it is. When you've got it and know what it is, then you can rest easy. **-Dorothy Crowfoot Hodgkin**



► TECHNOLOGY HIGHLIGHT

Antibodies

EMD Millipore develops monoclonal and polyclonal antibodies for major research areas including Neuroscience, Epigenetics, Cell Signaling, Cancer, and Cellular Structure. With the expertise of Calbiochem®, Upstate® and Chemicon®, EMD Millipore provides extensive, focused portfolios of multi-application validated antibodies and assays backed by excellent service and support.

www.emdmillipore.com/antibodies

Verifi(Ab)le Suit(Ab)le Reput(Ab)le

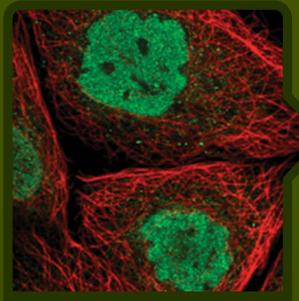
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1	

Cultured neonatal rat forebrain stained with Anti-GFAP (Catalog No. AB5804, green) and Anti-Neurofilament-H (Catalog No. AB5539, red). Nuclei are stained blue with Hoechst DNA stain.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
MARCH S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	MAY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31				April Fool's Day	Experimental Biology (EB 2016) • San Diego, CA, USA (2nd-6th) 18th International Neuroscience Winter Conference • Soelden, Austria (2nd-6th) 2
	3 2016) • San Diego, CA, US/					
18th International Neuro	oscience Winter Conference					
	Pichia 2016 Protein Expres	sion Conference • Antalya, RNAi 2016:	urkey (4th–6th)			
		RNA Therapeutics Oxford, UK (5th)				
3	4	5	6	7	8	9
10	11	12	Vaisakhi 13	14	15	16
17	18	19	20	• 21	Earth Day 22	Passover Begins 23
24	25	26	27	28	29	Last Day of Passover 30

Reput(Ab)le Antibodies We're validated. We're guaranteed. We're published.

We create the antibodies most cited by the research community.



A431 cells were stained using Anti-XRCC1 (Catalog No. ABC738, green). Microtubules are shown in red.

Vaccine Vanguard

Edward Jenner

Although "variolation" (applying subcutaneous smallpox virus to unaffected individuals) was a long-established method of conferring immunity in Africa, India, and China, it was not introduced to Europe until the 1700s. British surgeon Edward Jenner discovered that vaccination (using cowpox, or vaccinia, instead of smallpox virus) was equally effective with fewer side effects. Jenner personally vaccinated as many people as he could, many for no charge. His generosity earned him fame, if not fortune.



Cowpox sores on the hand of dairymaid, Sarah Nelmes as observed by Jenner.

2016

EMD Millipore provides quality tools to advance your cancer research, with validated antibodies, small molecule inhibitors, and kits and assays to investigate:

- Caspase Activation
- Mitochondrial Pathways
- Phosphatidylserine Translocation
- Annexin V Binding
- Autophagy Modulation
- Angiogenesis Induction and Inhibition
- Cell Proliferation
- Telomeres and Telomerase Activity
- DNA Damage
- Pro-inflammatory Cytokines
 - Invasion, Migration, and Metastasis Mechanisms

Died 1823 A.D.

1798A.D.

Born 1749 A.D.

66 The deviation of man from the state in which he was originally placed by nature seems to have proved to him a prolific source of diseases.

-Edward Jenner

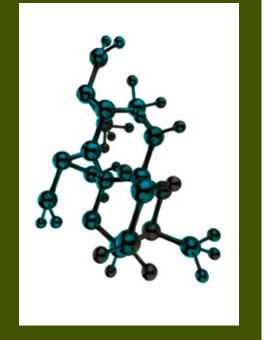
May

► TECHNOLOGY HIGHLIGHT

Small Molecules

EMD Millipore's pure, potent, preferred Small Molecules can advance your life science research. We offer the Calbiochem® brand of high quality small molecules, including inhibitors, activators, agonists, antagonists, and other modulators. These chemical compounds allow you to study mechanisms that control cellular signaling, protein function, cell fate, and phenotype. We offer the widest and most cited selection of inhibitors and activators worldwide.

www.emdmillipore.com/inhibitors

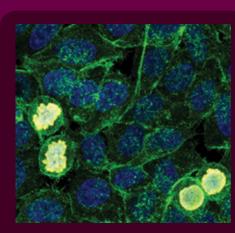


SUND	AY	MONDAY	TUESDAY	WEDNESI	DAY	THURSDAY		FRIDAY	SATURDAY
May Day	1	2	3	Greenery Day	4	Cinco de Mayo	5	6	7
								The American Association Seattle, WA, USA (13th-17	
Mother's Day	8	9	10		11	1.	2	13	14
	Association	-	eattle, WA, USA (13th-17th) Stress and Behavior Neuroso leration (16th-19th)	cience and Biopsyc	hiatry Cor	nference			
	15	16	17		18	1	9	20	Armed Forces Day 21
		10th Congress of the Inter Tel Aviv, Israel (23rd-26th)	national Society of Nutrigen	etics & Nutrigenoi	mics (ISNN	l)			19th International Congress of Cytology
				Biosensors 2016	• Gothen	burg, Sweden (25th-27t	:h)		(ICC 2016) • Yokohama, Japan (28th-Jun 1st)
	22	23	24	National Missing Children's Day	25	2	6	27	28
◀ 19th Internat	tional Congr	ess of Cytology (ICC 2016)	Yokohama, Japan (28th-Ju	n 1st)				APRIL SMTWTFS 12	JUNE SMTWTFS 1234
	29	Memorial Day 30	31		1		2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Suit(Ab)le Antibodies

We're selective. We're specific. We're scientists.

We create the antibodies that are most relevant for today's research needs.



Confocal fluorescent analysis of HeLa cells using Anti-phospho Histone H3 (Ser10), Alexa Fluor® 647 Conjugate (Catalog No. 06–570–AF647, yellow). Actin filaments have been labeled with Phallodin–Alexa Fluor® 488 dye (green) and nuclei are stained with DAPI (blue).

Godfather of Genetics

Gregor Johann Mendel

Austro-Hungarian scholar and abbot who characterized seven traits across 29,000 pea plants and derived the Laws of Inheritance. Only when botanist Carl Correns discovered Mendel's paper in the early 1900s and confirmed Mendel's results were the principles of chromosomal inheritance widely accepted.



Mendel discovered the basic principles of heredity through experiments using pea plants grown in his garden.

2016

EMD Millipore helps you advance your genomic analysis with the right solutions for effective:

- DNA Preparation, Extraction, and Purification
- Cloning and Transfection
- Use of Plasmid Vectors and Competent Cells
- PCR, qPCR and DNA Marker Analysis
- Next Generation Sequencing
- Protein Expression
- Live Cell RNA Detection using SmartFlare[™] Probes
- Chromatin, Histone, DNA, and RNA Analysis
- Transcription Factor Assays, ChIP, RIP
- Epigenetics analysis
- DNA Methylation Analysis
 - DNA Structure, Damage, Repair Analysis

Died 1905 A.D.

1886 A.D.

Born 1822 A.D.

The value and utility of any experiment are determined by the fitness of the material to the purpose for which it is used, and thus in the case before us it cannot be immaterial what plants are subjected to experiment and in what manner such experiment is conducted.
-Gregor Johann Mendel

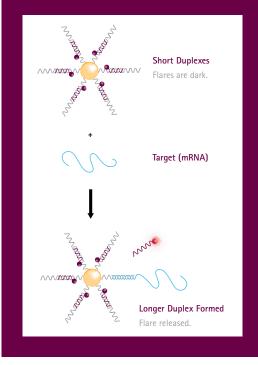
June

► TECHNOLOGY HIGHLIGHT

SmartFlare[™] Live Cell Biomarker Detection Probes

Instead of lysed cells, switch to live cells. And while you're at it, eliminate transfection steps all together. Live cell biomarker detection is now possible, in a single incubation step using inert nanoparticle technology to specifically detect native RNA. And when you're done, the probes exit the cells allowing you to perform downstream analyses with the same, unperturbed cells. Make the smart change!





SUNDAY	MONDAY	TUESDA	Y	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
MAY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	JULY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16			 19th International Congress of Cytology (ICC 2016) Yokohama, Japan (May 28th-Jun 1st) 			
22 23 24 25 26 27 28 29 30 31	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			1	2	3	4
American Society for Mas	s Spectrometry Annual Confe	erence • San Anton	io, TX, US/	A (5th-9th)			CYTO 2016
							Seattle, WA, USA (11th-15th)
5	6	Ramadan Begins	7	8	Dragon Boat Festival	10	11
♦ CYTO 2016 • Seattle, V	/A USA (11th-15th)				ASM Microbe 2016 • Bost	on MA USA (16th-20th)	
							American Society for Virology 2016 Annual Meeting Blacksburg, VA, USA (18th-22nd)
12	13	Flag Day	14	15	16	17	18
▲ASM Microbe 2016 • Be	oston, MA, USA (16th-20th)						
	rology 2016 Annual Meeting	• Blacksburg, VA,	USA (18th	-22nd)			
15th International Congre	ss of Histochemistry and Cyt	ochemistry (ICHC 2	2016) • Ist				
				International Society for S	tem Cell Research (ISSCR) •	San Francisco, CA, USA (22r	id-25th)
Father's Day 19	20	Summer Solstice	21	22	23	24	25
Metabolic Engineering • I	Kōbe, Japan (26th-30th)						
26	27		28	29	30	1	2
20	∠ /		20	23	50		

Verifi(Ab)le Antibodies

Lot to lot. Experiment to experiment.

Our Anti-Fail testing guidelines meet your most demanding expectations.

Staining of a mixed population of neural cells from rat cerebral cortex using anti-Vimentin (Catalog No. AB5733, green) and anti-GFAP (Catalog No. AB5408, red). Nuclei are stained blue. Photo courtesy of EnCor Biotechnology, Inc.

Maestro

Robert Hooke

British scientist who first used the word "cell" to describe a unit of life. Robert Hooke was an avid physicist, discovering the law of elasticity, astronomer, and microscopist—he authored the multidisciplinary book, "Micrographia". Hooke also made the prescient assertion that memories were physically created in the brain. It is fitting that modern studies of memory benefit from microscopy of neural cells. Microscopic structure of cork "cells" by Hooke.

2016

EMD Millipore provides the biochemicals and reagents you need to advance your life science research. Lay the foundation for publication quality results by using high quality reagents from the start.

Research essential biochemicals offered by EMD Millipore include:

- Antibiotics, Antifungals, and Antivirals
- Buffers
- Detergents
 - Dyes and Stains
 - Fluorescent Conjugated Antibodies
 - Substrates
 - Essential Proteins (such as Albumins, Lysozyme)
 - Amino Acids
 - Chelating Agents, Denaturants, Ionophores
 - Nucleotides, Nucleosides, Purines, Pyrimidines
 - Reducing Agents, Salts, Acids, and Bases, Solvents
 - Vitamins, Coenzymes, and Cofactors

Died 1703 A.D.

1665A.D.

Born 1635 A.D.

⁶ The truth is, the Science of Nature has been already too long made only a work of the Brain and the Fancy: It is now high time that it should return to the plainness and soundness of Observations on material and obvious things. **-Robert Hooke**



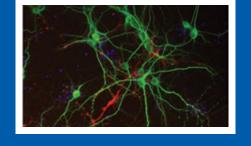
► TECHNOLOGY HIGHLIGHT

CellASIC[®] ONIX Microfluidic Platform

The CellASIC® ONIX Microfluidic Platform delivers breakthrough control for live cell analysis experiments by combining the highest precision controls, maximum functionality, and simplified user operation for demanding long-term perfusion experiments. The system enables dynamic time-lapse experiments never before possible. Cutting-edge microfluidics technology provides an improved cell culture microenvironment, exceptional quality for high magnification microscopy, and superior media switching capabilities.

www.emdmillipore.com/cellasic



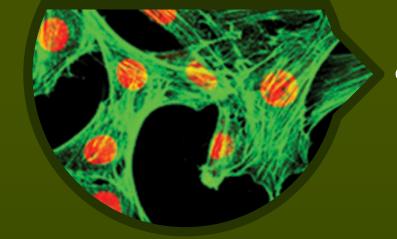


SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
JUNE SMTWTFS	AUGUST SMTWTFS					FENS Forum 2016 Copenhagen, Denmark (2nd-6th)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27					Nanotexnology 2016 Thessaloniki, Greece (2nd-9th)
19 20 21 22 23 24 25 26 27 28 29 30	21 22 23 24 25 26 27 28 29 30 31				1	2
	enhagen, Denmark (2nd-6th					
■ Nanotexnology 2016 ● II	hessaloniki, Greece (2nd-9th) 		The Pathobiology of the Lys	sosome and Lysosomal Disea	ses Conference 2016
				Cambridge, UK (7th-10th)		
	4	-	0	_		
3	Independence Day (US)	5	Eid ul-Fitr 6		8	9
 The Pathobiology of the Lysosome and Lysosomal Diseases Conference 2016 Cambridge, UK (7th-10th) 						Cell Symposia: Transcriptional Regulation in Development and Disease Chicago, IL, USA (16th-18th)
10	11	12	13	Bastille Day 14	15	16
 Cell Symposia: Transcripti Development and Disease (16th-18th) 	onal Regulation in • Chicago, IL, USA					Stress and Behavior: 2016 Yokohama, Japan (23rd-24th)
17	18	Dharma Day 19	20	21	22	23
24 Stress and Behavior: 2016 Yokohama, Japan (23rd-24th)						
Am Assoc Clinical Chem Philadelphia, PA, USA (31st-Aug4th) 31	25	26	27	28	29	30

Reput(Ab)le Antibodies We're validated. We're guaranteed. We're published.

We create the antibodies most cited by the research community.

NIH/3T3 cells were stained using Anti-HuR (Catalog No. 03-102, red). Actin filaments are shown in green.



Cytogenetics Innovator

Barbara McClintock

American geneticist who first provided evidence that genes were linked because they were physically close to each other in the context of a chromosome. She was the first to show that homologous chromosomes interacted to form a crossover complex during meiosis. McClintock's discovery of transposable elements earned her the Nobel Prize in 1983.



2016

EMD Millipore provides quality tools to advance your epigenetics research. Epigenetics can help describe how the environment influences gene expression, and has become an area of great interest and research. EMD Millipore is helping scientists understand epigenetic mechanisms by offering solutions to advance research with validated antibodies, potent small molecules, kits and assays to study:

- Histones and modified Histones
- Chromatin Associated Proteins
- Transcription Factors
- RNA Binding Proteins
- DNA Methylation
- DNA Structure
- DNA Damage and Repair
- Cell Cycle Proteins

Died 1992 A.D.



Born 1902 A.D.

If you know you are on the right track, if you have this inner knowledge, then nobody can turn you off... no matter what they say.

-Barbara McClintock

August

► TECHNOLOGY HIGHLIGHT

Signaling Antibodies

EMD Millipore's validated antibodies for proteins and their specific post-translational modifications (PTMs) give you the assurance you require for your Signaling research.

Our Clone 4G10[®] has been the gold-standard for phosphotyrosine detection. Now, we bring you new antibodies that let you detect phospho-Histidine. These new antibodies not only let you detect pHis, they allow you to differentiate between the N1 and the N3 histidine phosphorylation. Developed by Dr. Tony Hunter and his team at the Salk Institute for Biological Studies, EMD Millipore has licensed the technology and has made these antibodies available to the research community.

www.emdmillipore.com/signaling

 $O = \begin{bmatrix} P \\ P \\ HO \end{bmatrix} = \begin{bmatrix} N \\ N \\ P \\ HO \end{bmatrix} = \begin{bmatrix} N \\ P \\ HO \end{bmatrix} = \begin{bmatrix} N \\ P \\ HO \end{bmatrix}$

Detect N1 and the N3 histidine phosphorylation with our new Anti-phosphohistidine Antibodies!

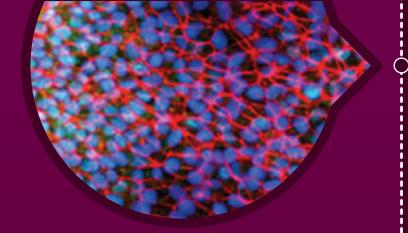
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
JULY S M T W T F S 1 2 1 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1	2	3	4	5	6
7	8	9	10	Mountain Day 11	12	13
7th International Crop Sci	ence Congress • Beijing, Chir					
	45	10	47	10	10	00
14	15	16	• 17	Raksha Bandhan 18	19	20
	al Symposium on Microbial Immunology (ICI) 2016 ● Me					
International congress of			IJ			
21	22	23	24	25	26	27
16th European Microscopy	Congress • Lyon, France (28					SEPTEMBER
			18th World Congress of P	sychophysiology • Havana, (Cuba (31st-Sept4th) 🕨 🕨	S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
28	29	30	31	1	2	18 19 20 21 22 23 24 25 26 27 28 29 30

Suit(Ab)le Antibodies

We're selective. We're specific. We're scientists.

We create the antibodies that are most relevant for today's research needs.

Epifluorescent analysis of undifferentiated H9 human embryonic stem cells using Anti-Rex-1 (Catalog No. ABD99, green). Nuclei are stained with DAPI (blue) and actin is shown in red.



Founder

Louis Pasteur

French microbiologist who advanced vaccine science and also unequivocally proved that microorganisms could not proliferate in a sterile, uninoculated solution. As a corollary, he proved that destroying microorganisms (by "Pasteurization") could prevent spoiling of beverages and other products. His work saved wine, beer, and silk industries in France and saved lives around the world. Bottle en col de cygne (swan neck duct) used by Pasteur that allowed him to refute the theory of spontaneous generation.

2016

EMD Millipore provides effective solutions to enable your cell culture and analysis efforts. From cell cultureware to media and supplements, from validated antibodies and potent small molecules to biochemicals and reagents, from kits and assays to platforms that make analysis easy—everything you need to advance your life science research is here.

Cell culture and analysis solutions to transform your research:

- Stericup® Vacuum Driven Sterile Filters
- Sterile Millex® Syringe Filters
- Millicell[®] Inserts, Plates, EZ SLIDES
- MultiScreen® Plates
- Tissue Culture Treated Plates
- Millicell[®] µ-Angiogenesis Assay Kits
- Millicell® µ-Migration Assay Kit
- AXIS[®] Axon Isolation Device
- Human and Rodent Cells
- Stem Cells (Human and Rodent)
- Cell Culture Media, Supplements, and Reagents

Died 1895 A.D.

1857a.d.

Born 1822 A.D.

G Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world.

-Louis Pasteur

September

► TECHNOLOGY HIGHLIGHT

Amnis[®] Imaging Flow Cytometers



Amnis[®] imaging flow cytometers (IFC) are the first instruments to integrate microscopy into flow, combining the advantages of visual data and morphological quantitation with unparalleled sensitivity in cytometry. With up to 12 channels for every cell or event acquired, Amnis[®] instruments provide stunning images with the statistical robustness from sampling thousands of cells that only flow cytometry can offer. To date, nearly 600 papers have been published on the strength of IFC data generated on the FlowSight[®] and ImageStream^{®X} instruments, in publications as diverse as Cell, Nature, Science, and Blood.

www.emdmillipore.com/flowcytometry



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
AUGUST S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	OCTOBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15			▲18th World Congress of	Psychophysiology • Havana	, Cuba (31st-Sept4th) 🕨
21 22 23 24 25 26 27 28 29 30 31	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			1	2	3
 18th World Congress of Psychophysiology Havana, Cuba (31st-Sept4th) 			EMBO EMBL Symposium (7th-10th)	: Actin in Action: From Mole	cules to Cellular Functions •	Heidelberg, Germany
4	Labor Day (US)	6	7	8	9	10
					National Society of Histote (42nd Annual Symposium) (16th-21st)	
11	Eid ul-Adha 12	13	14	Mid-Autumn Festival 15	• 16	17
		ymposium) • Long Beach, CA s • Taipei, Taiwan (18th-22nd				
18	19	20	21	Fall Equinox 22	23	24
Cell Symposium: 10 years	of iPSCs • Berkeley, CA, USA	(25th-27th)				
25	26	27	28	29	30	1

Verifi(Ab)le Antibodies

Lot to lot. Experiment to experiment.

Our Anti-Fail testing guidelines meet your most demanding expectations.

Research essential biochemicals, such as buffers, detergents, stains, and substrates, are indispensable for any life science research laboratory. EMD Millipore provides well-documented, well-characterized, and highly cited reagents, such as our most popular selection agen<u>t, G418 Sulfate.</u>

Antibiotics Ambassador

Alexander Fleming

Scottish scientist who helped launch the modern use of antibiotics when he accidentally discovered penicillin. Undiscouraged by how difficult it was to mass-produce, Fleming cultured the Penicillium mold himself for 12 years before chemists could develop a production scheme. Today, penicillin is an essential component of many tissue cultures, to prevent mold contamination. The dissolution of staphylococcal colonies in the neighborhood of a penicillium colony, as observed by Fleming.

2016

EMD Millipore is your go-to source for pure, potent, preferred Small Molecules and Biochemicals to advance your life science research. Our Calbiochem® brand of high quality small molecules, including inhibitors, activators, agonists, antagonists, enable you to study cell signaling and other mechanisms that control cell fate, function, and phenotype. Our small molecules have been cited in thousands of peer-reviewed publications.

Choose from a wide selection, including small molecules for:

- Kinases and Phosphatases
- Cell Health
- Proteases

 \bigcirc

- Neurodegeneration
- Oxidative Stress and much more.

In addition we offer:

- InhibitorSelect[™] Libraries
- InSolution[™] Inhibitors
- InhibitorSelect[™] Signaling Pathway Panels
- Protease Inhibitor Cocktails
- Phosphatase Inhibitor Cocktails

Died 1955 A.D.



Born 1881 A.D.

⁶⁶I have been trying to point out that in our lives chance may have an astonishing influence and, if I may offer advice to the young laboratory worker, it would be this – never to neglect an extraordinary appearance or happening. -Alexander Fleming

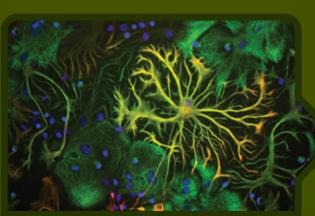
October

► TECHNOLOGY HIGHLIGHT	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Stericup [®] filter	SEPTEMBER SMTWTFS 123	NOVEMBER S M T W T F S 1 2 3 4 5					
There's only one. Don't be fooled. CAUTION!	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30					1
 Sterile filters are posing as high-quality Stericup[®] filters, but are rather thinly disguised. These filters may exhibit clogging, loss of 				EMBO EMBL Symposium	: Complex Life of mRNA • H	eidelberg, Germany (5th-8th)
 volume and unwanted binding of serum proteins and other additives. Victims report anxiety due to potential damage to cell health. 	2	Rosh Hashana 3	4	5	6	7	8
Don't be fooled—EMD Millipore's history of membrane technology and filter device engineering is unmatched.							
View performance data and place an order for the one and only true Stericup [®] filter at: www.emdmillipore.com/oneStericup	9	Columbus Day (US) Thanksgiving Day (CAN)	11	Yom Kippur 12	13	14	• 15
				6th European Congress of	Virology • Hamburg, German	ny (19th-22nd)	
* *	16	17	18	19	20	21	22
	23	24					
	Diwali 30	Halloween 31	25	26	27	28	29



Reput(Ab)le Antibodies We're validated. We're guaranteed. We're published.

We create the antibodies most cited by the research community.



Hippocampal rat glial cells stained with Anti-GFAP (Catalog No. AB5541, red) and Anti-Vimentin (Catalog No. AB5733, green). Nuclei are stained blue.

Father of **Neuroscience**

Santiago Ramón y Cajal

Spanish pathologist and neuroscientist who is best known for his detailed drawings of brain structures. Using advanced staining methods, Ramón y Cajal was able to discern previously unresolved structures, such as the axonal growth cone and interstitial cells. Less known are his works on parapsychology and hypnosis. Ramón y Cajal won the Nobel Prize in 1906.



Drawing of pyramidal neurons in the hippocampus of a small mammal by Santiago Ramón y Cajal, c1901.

2016

EMD Millipore provides quality tools to advance your neuroscience research. Whether you are studying development, differentiation, or degeneration, look to us for the right tools, including antibodies, small molecule inhibitors, agonists and antagonists, characterization kits, outgrowth assays, growth factors, cultureware and media, and much more.

Advance your neuroscience research with validated antibodies and potent small molecules to targets such as:

- Differentiated Neurons
- Astrocytes and Microglia
- Synapse and Structure proteins
- Neural Stem Cells
- Transmitters, Ion Channels, Receptors, and Transporters
- Neurotrophic Factors, such as NGF
- Sensory Systems, including Pain and Vision
- Neurodegenerative Disease markers
- Oxidative Stress proteins and molecules

Died 1934 A.D.

1901A.D.

Born 1852 A.D.

66 Any man could, if he were so inclined, be the sculptor of his own brain. -Santiago Ramón y Cajal

November

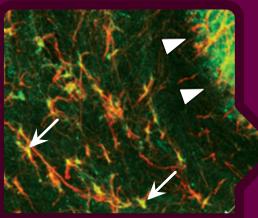
► TECHNOLOGY HIGHLIGHT	SUNDAY		MONDAY	TUESDA	Y	WEDNESDAY	THURSDA	Y	FRIDA	Y	SATURDAY
	OCTOBER										
Neuroscience	SMTWT	F S									
Antibodies		7 8									
Antroomes	9 10 11 12 13 1 16 17 18 19 20 2										
EMD Millipore's solutions for neuroscience	23 24 25 26 27 2				1	2		3		4	5
research include specific, validated, published antibodies for targets related to:	30 31					Bacterial Protein Secretion Conference • Tampa, Florid		-		<u> </u>	
• Synapses, Neurons, and Glia						Bacterial Protein Secretion		pa, rionu	a, USA (Stri-Stri)		Society for
Neural Stem Cell Markers											Neuroscience 2016 Annual Meeting (SFN)
Neurotrophic FactorsNeurite Outgrowth											San Diego, CA, USA
Transmitters and Receptors											(12th-16th)
 Ion Channels and Transporters Sensory Systems and Control 	Daylight Savings Time Ends (US)	6	7	Election Day (US)	8	9		10	Veteran's Day	11	12
Oxidative Stress	✓ Society for Neuro	oscience	ce 2016 Annual Meeting (SFN) ● San Diego, CA, USA (12th			1-16th)					
 Neurodegenerative Disease and more. 											
EMD Millipore has the antibodies you need to											
potentiate your neuroscience research.		13	1/		15	16		17		18	19
www.emdmillipore.com/antibodies		IJ	Guru Nanak Birthday 14					1/		10	19
			2016 Sleep Summit • Londo			Ion, UK (22nd-24th)					
2000											
alita											
		20	21		22	23	Thanksgiving Day (US)	24		25	26
	Materials Res. Society Fall Meeting Boston, MA, USA (27th-Dec2nd)								1		
and the second second		, -									DECEMBER SMTWTFS
											1 2 3
- I											4 5 6 7 8 9 10 11 12 13 14 15 16 17
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		27	28		29	30					25 26 27 28 29 30 31

4D MILLIPORE

Suit(Ab)le Antibodies

We're selective. We're specific. We're scientists.

We create the antibodies that are most relevant for today's research needs.

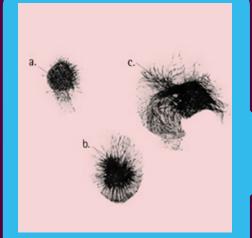


Anti-Nerve Growth Factor, pro (Catalog No. AB5583, green) reveals staining in astrocytes of the upper corpus callosum (arrows) and in periventricular cells (white triangles) in rat brain sections.

Neurobiology Advancer

Rita Levi-Montalcini

Italian-American neurologist who discovered nerve growth factor (NGF), a small secreted protein that regulates neuron survival. In spite of World War II-era anti-Semitic policies that barred her from university employment, Levi-Montalcini conducted chicken embryo studies in her bedroom, and eventually ended up at Washington University in St. Louis, MO, USA, where she isolated NGF and studied its effects on tumors. She was awarded the Nobel Prize in 1986.



Levi-Montalcini's drawings illustrating the in vitro "halo" effect on 8-day chick embryo sensory ganglia cultured in the presence of fragments of mouse sarcoma 180 for 24 hours (b) or 48 hours (c).

2016

EMD Millipore provides quality tools to advance your signaling research, whether you are studying the role of growth factors on neuronal development or the influence of phosphorylation on receptors. We offer a wide selection of antibodies, small molecule inhibitors, kinases, phosphatases, ELISA kits, activity assays, and much more.

Advance your signaling research with validated antibodies and potent small molecules to targets such as:

- GPCRs
- Growth Factors and Receptors
- Cytokines
- Chemokines
- Protein Kinases
- Lipid Signaling proteins
- Calcium Signaling proteins
- G-proteins
- Small GTPases
- Nuclear Signaling proteins
- Transcriptional and Post-transcriptional Regulators
- Post Translational Modifications (PTMs)

Died 2012 A.D.

1952 A.D.

Born 1909 A.D.

66 Above all, don't fear difficult moments. The best comes from them. **99** -**Rita Levi-Montalcini**

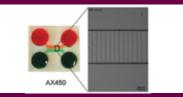
December

► TECHNOLOGY HIGHLIGHT

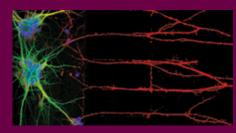
AXIS[®] Axon Isolation Device

The AXIS® device is a unique, easy to use, slide-mounted microfluidic platform that allows culture, regulation, and directional differentiation of neuronal cells via a system of growth chambers and interconnected channels. AXIS® devices physically isolate developing neurites from each other and their respective neural cell bodies.

www.emdmillipore.com/axis



AXIS[®] device with colored dyes added to the wells. A higher magnification image of a portion of the microgroove area is shown to the right. Devices are available with 150 μ m and 450 μ m (shown) long microgrooves.



Confocal micrograph of immunocytochemistry staining of mouse Balb/c P3 mixed cortical neuron culture grown on 150 µm Plasma Bonded AXIS[®] device (Catalog No. AX15005PBC).

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
NOVEMBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2 2 2 2 10 11 12 13 14 15 16 17 18 19	JANUARY 2017 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21			 Materials Res. Society Fa Boston, MA, USA (Nov27 	ll Meeting (th-2nd)	2016 American Society ► for Cell Biology Annual Meeting (ASCB) San Francisco, CA, USA (3rd-7th)
20 21 22 23 24 25 26 27 28 29 30	22 23 24 25 26 27 28 29 30 31			1	2	3
◀ 2016 American Society	for Cell Biology Annual Mee	ting (ASCB) • San Francisco,	CA, USA (3rd-7th)			
	Memory Mechanisms in H					
1		6	7	0	0	10
4	5	6	/	8	9	10
11	Eid Milad-un-Nabi 12	• 13	14	15	16	17
10	10	0.0	0.1	0.0	0.0	0.4
18	19	20	Winter Solstice 21	22	23	Christmas Eve 24
Christmas Day						
First day of Hanukkah 25	Boxing Day 26	27	28	29	30	New Year's Eve 31



Verifi(Ab)le Antibodies

Lot to lot. Experiment to experiment.

Our Anti-Fail testing guidelines meet your most demanding expectations.

Great scientists to inspire you throughout the year!



www.emdmillipore.com

EMD Millipore, the M logo, Chemicon, Upstate, Calbiochem, 4G10, Amnis, AXIS, CellASIC, Direct Detect, FlowSight, ImageStreamx, Luminex, Millex, Millicell, Milliplex, MultiScreen, Muse, SNAP i.d., Stericup, and xMAP are registered trademarks of Merck KGaA, Darmstadt, Germany. AldeRed, easyCite, GyroMark, inhibitorSelect, InSolution, OxyBlot, OxyELISA, OxyICC, OxyIHC, Scepter, Simplicon, SmartFlare, and STEMMCA are trademarks of Merck KGaA, Darmstadt, Germany.All other trademarks belonging to third parties are the properties of their respective owners. Lit No. PB6844EN00 BS-GEN-15-11706 9/2015 © 2015 EMD Millipore Corporation, Billerica, MA USA. All rights reserved.