

MARKET UPDATE

HEALTHCARE



HIGHLIGHTS

Dear Reader,

This past month, the gene editing arena has been quite effervescent!

Starting with Bayer's deal with Curevac through Casebia Therapeutics (Bayer-CRISPR Therapeutics joint venture) to develop novel Cas9 mRNA constructs with improved properties for *in vivo* gene-editing liver disease programs. CRISPR-Cas9 has generated a lot of excitement for its use in eliminating disease-causing irregularities in DNA, but other approaches are also explored by scientists.

Novartis renewed its commitment to gene and cell therapies beyond CART & CRISPR by signing a deal with upfront payment and equity investment with Homology Medicines to use its AMEnDR gene-editing technology. The resulting drugs aim for certain ophthalmic and hemoglobinopathy diseases. Lastly Locus Biosciences, armed with \$19m in series A funding, is also moving ahead with a first clinical trial for its CRISPR-based antimicrobial drugs. Locus is the only company using a CRISPR-Cas3 system to tackle multidrug-resistant bacteria, while preserving the rest of the microbiome. On the academic side, the MIT has developed nanoparticles that could eliminate the need for viruses to edit genes. All these advances are very interesting and a promise to keep partnerships well going in the future.

On the public market front, biotech listings on Nasdaq remain strong this month. Denali Therapeutics and Odonate Therapeutics contemplate using the Wall Street's bullish sentiment momentum by filing for two big IPOs. Denali Therapeutics has been founded back in 2015 on a monster \$217 million A round followed up with a \$130 million series B, by a group of high-profile ex-Genentech executives, who held various positions in neuroscience department. The company focuses on neurodegenerative diseases like Alzheimer's disease, Parkinson's disease and ALS. Today it is looking for \$100 million. For its part, Odonate Therapeutics the San Diego-based biotech founded in 2013, envisions pocketing \$173 million for its work on oral chemotherapy drugs.

Last but not least, we are happy that with 24 companies and c. 100 attendees, the Bryan, Garnier & Co. Healthcare conference was, this year again, a great success! We look forward to meeting with you all again in November 2018 for our 6^{th} edition. Thank you!

HERVE RONIN Partner | Bryan, Garnier & Co +6.5% 5Y-CAGR Worldwide prescription drugs expected sales

+**5.3%** 5Y-CAGR Medtech market expected growth

-0.4% / -7.5% Monthly EU Pharma & biotech performance

30 / \$3.6bn Number & total value of US ECM deals priced in November

New record high session on Wall Street Investors reacted to a better-than-expected tech stocks quarterly

earnings releases





- Overall, US healthcare equities showed steady performances while European biotechs plummeted. US and European volatility indexes increased by 11% and 12%, respectively:
- Monthly US / EU Biotech perf.: 0.5% / -7.5%
- Monthly US / EU Pharma perf.: 1.7% / -0.4%



- News of the month: the US-FDA approved Nicox's Vyzulta (latanoprostene bunod) for the treatment of glaucoma and ocular hypertension
- Vyzulta's regulatory approval by the US authorities has not been uneventful, but Nicox and its partner Bausch+Lomb finally got the green light from the FDA. Vysulta's launch in the US is expected by the end of the year



- Raise of the month: Biocartis (oncology IVD) successfully raised €80m on the market, to expand its Idylla platform, and accelerate its sales and marketing activities
- On the private front, Xeltis, a clinical-stage medical device company pioneering a restorative approach in heart valve therapy, closed an oversubscribed €45m series C round of financing, the largest investment round for a European private Medtech company in 2017



- There were no major deals in Europe this month, as M&A activity pauses for breath
- Palatine-backed Vernacare, a company specialized in infection protection, acquired Synergy Health from US medical device company Steris. Synergy Health manufactures wound care and surgery products, as well as hygiene wipes. This acquisition will broaden Vernacare's range of products



- Indian company Intas Pharmaceuticals, to acquire UK-based Mallinckrodt's generic business in the US for \$1.5bn
- **Conference & Events:** the 59th annual ASH meeting will be held in December (12/9-12), the biggest conference for hematology diseases including malignant disorders. In the scientific spotlight session, emerging genomic tools for inherited hematologic diseases, and the impact of the microbiome on the hematologic system

CAR-T: NO LONGER SCIENCE FICTION

Bryan, Garnier & Co

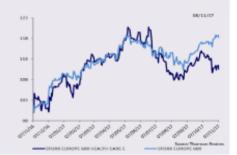
Healthcare

8th November 2017

INDEPENDENT RESEARCH

Healthcare

CELLECTIS		NEUTRAL	FV EUR23
	Resumin	g coverage	
BUY	FV EUR9999	Reuters	ALCUS.PA
Price	EUR24.41	High/Low	EUR23.6
Market cap.	29.61/14.99	Entergrise Val	EUR536m
PE (2017e)	EUR645m NS	EWEBIT (2017e)	NS
CELYAD		BUY	FV EUR68 vs. 61
	I ranaterr	ing coverage	
BUY	EV EURS1	Reuters	CARD BB
Price	EUR36.905	High/Low	EUR45.74
Market Cap.	54.05/14.905	Enterprise Val	EUR451m
PE (2017e)	EUR417m	EV/EBIT (2017e)	z
	NS		
NOVARTI8		BUY	FV CHF82
Bloomberg	NOVN VX	Reuters	NOVN.VX
Price	CHF52.3	High/Low	85.15/68.5
Market Cap.	CHF215,366n	Enterprise Val	CHF209,449m
PE (2017e)	17.2x	EV/EBIT (2017e)	16.7x





CAR-T: no longer Science Fiction

CAR-T therapies have demonstrated some of the highest cure rates in history for late-stage cancer patients. However, they are plagued with controversy because of their early toxicity profile, manufacturing and cost. Hopefully, technology is evolving fast and safety protocols are reducing mortality. We see the next 12 months as data rich and believe investor confidence in this market will increase. Our take is that 2018 will lead to considerably more colour on the improved efficacy and safety of CAR-T. The first two CAR-T cell therapies, namely Novartis' Kymriah and Kite's Yescarta, have been approved for the treatment of ALL and DLBCL respectively, paving the way for additional new entrants. 2018 may be a good entry point for two further CAR-T approvals in DLBCL, such as Novartis' CTL019 and Juno's JCAR017. We are re-initiating Cellectis and Celyad.

- Tumours use many strategies to evade the host immune response, including downregulation or weak immunogenicity of target antigens and creation of an immune-suppressive tumour environment. T-cells play a key role in cell-mediated immunity and, recently, strategies to genetically modify T-cells either through altering the T cell receptor (TCR) specificity or through introducing antibody-like recognition in chimeric antigen receptors (CARs) have made substantial advances. As we believe TCRs are 1/riskier owing to fatal off-target toxicities and 2/too early stage compared with CAR-T, we focused this report on CAR-T cell therapy. After years of raising cash, IFOs, securing licensing rights from academia and starting numerous small studies, the race is on to generate hard clinical data. Moreover the sector has not been sitting on its hands as subsequent technical advances have been investigated to address some current challenges.
- T cells engineered to express CARs by gene transfer technology specifically recognize their target antigen in a simplified manner (antibody scFv-based, MHC independent), resulting in T cell activation. Starting with today's murine containing scFv containing products, future CAR products should feature fully human scFv, optimized to particular T-cell subsets, suicide/control switches and logic gates as well as an armamentarium of strategies that allow T cells to thrive in a hostile tumour environment. Autologous T-cells are the cornerstone of present cell-based cancer immunotherapies, but allogeneic cell sources, possibly including stem cell-deived "off-the-shelf" T-cells, are likely to play an important role in the future.
- Cellectis NEUTRAL FV EUR23: Seems affected by several issues: 1/UCART19 clinical program is progressing slowly and demonstrated disappointed preliminary clinical results; 2/ CD123 might be a dangerous target to use for CAR-T cell therapy; 3/GMP manufacturing problems might explain in part the delays that the company accumulate; 4/Other pre-clinical projects focus on Multiple Myeloma, which in our view is not a strategic indication to address, and these CAR-T product candidates are still too early stage to be included in our valuation model; 5/Lack of clinical data in 2018.
- Celyad EUY FV EUR58: Seems to have everything it takes to succeed.1/Celyad has a very differentiated approach with its autologous NKG2D CART, addressing both liquid (AML); and solid (colorectal) cancers; 2/Celyad is developing both autologous and allogeneic CAR-T cell therapies; 3/Despite its earlier development stage, Celyad has a robust patent estate validated by two structuring deals related to its allogeneic util CAR-T players interested in developing allogeneic CAR-T product candidates; 4/Has its own manufacturing infrastructure.



Analyst: Marion Levi 33(0) 1.70.36.57.01 mlevi@bryangamier.com Sector Analyst Team: Jamila El Bougrini Eric Le Berrigaud Hugo Solvet Gary Waanders













3-MONTH PERFORMANCE

- Eurostoxx

+5%

Nasdaq

+8%

110

EURONEXT HEALTHCARE COMPANY PERFORMANCE

Pharmaceuticals 🎽			Perfo	mance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
SANOFI	EN Paris	96 112	2.2%	-5.5%
UCB SA	EN Brussels	12 586	7.9%	4.1%
IPSEN	EN Paris	8 641	51.4%	-1.5%
BOIRON SA	EN Paris	1 471	-8.4%	-2.2%
VIRBAC SA	EN Paris	918	-35.1%	-4.2%
FAGRON	EN Brussels	792	13.6%	-0.6%
STALLERGENES GRE	EN Paris	778	27.2%	-0.0%
VETOQUINOL SA	EN Paris	650	21.2%	-2.0%
VETOQUINUE SA	LINFAILS	050	Z1.Z/0	-2.0%
Biotechs ڬ				mance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
GALAPAGOS NV	EN Amsterdam	3 772	21.5%	-14.5%
ABLYNX NV	EN Brussels	1 463	81.0%	10.6%
DBV TECHNOLOGIES	EN Paris	938	-43.4%	-8.7%
CELLECTIS	EN Paris	735	27.9 %	- 22.9 %
ARGENX SE	EN Brussels	720	67.8%	33.9%
GENFIT	EN Paris	716	9.3%	1.3%
PHARMING GRP NV	EN Amsterdam	679	484.3%	25.9%
ERYTECH PHARMA	EN Paris	428	73.5%	-4.6%
MITHRA PHARM	EN Brussels	372	20.0%	-1.9%
AB SCIENCE SA	EN Paris	361	-35.6%	-3.2%
CELYAD	EN Brussels	356	102.7%	-28.3%
NICOX SA	EN Paris	301	19.7%	15.0%
INNATE PHARMA SA	EN Paris	278	-66.8%	-48.2%
NANOBIOTIX	EN Paris	273	-9.9%	-10.1%
TIGENIX NV	EN Brussels	259	33.6%	-3.2%
VALNEVA SE	EN Paris	229	-5.8%	5.1%
TRANSGENE SA	EN Paris	170	2.2%	-17.5%
THROMBOGENICS NV	EN Brussels	164	79.6%	0.8%
POXEL SA	EN Paris	157	-1.6%	-2.7%
KIADIS PHARM	EN Amsterdam			
		135	-7.5%	-2.9%
GENSIGHT	EN Paris	124	-33.9%	-1.2%
ADOCIA SAS	EN Paris	103	-75.3%	-6.6%
PROBIODRUG AG	EN Amsterdam	98	-33.4%	-12.1%
ABIVAX SA	EN Paris	97	55.9%	-16.8%
INVENTIVA SA	EN Paris	97	n.a	-10.1%
PHARNEXT SA	EN Paris	94	-5.7%	-10.1%
GENEURO SA	EN Paris	85	-43.1%	-13.3%
ONCODESIGN	EN Paris	80	-17.6%	3.2%
BONE THERAPEUTIC	EN Brussels	64	20.7%	-6.0%
BIOPHYTIS	EN Paris	58	11.1%	-18.8%
ONXEO	EN Paris	56	-56.0%	-22.0%
ASIT BIOTECH SA	EN Brussels	53	-35.5%	25.6%
OSE IMMUNO	EN Paris	52	- 48.9 %	-12.8%
LYSOGENE SA	EN Paris	50	n.a	-15.0%
THERANEXUS SADIR	EN Paris	47	n.a	n.a
CERENIS THERAPEU	EN Paris	35	-77.7%	-8.1%
NEOVACS	EN Paris	34	-32.1%	3.8%
QUANTUM GEN-REGR	EN Paris	33	-59.4%	-9.7%
TXCELL	EN Paris	31	-39.7%	-6.4%
VALBIOTIS SAS	EN Paris	25		-0.4%
SENSORION SA		23	n.a	
	EN Paris		-39.9%	-31.7%
	EN Paris	23	31.5%	1.4%
HYBRIGENICS	EN Paris	22	-42.8%	-16.1%
INTEGRAGEN	EN Paris	17	-22.4%	-1.9%
GENOWAY SA	EN Paris	11	5.6%	3.8%
ESPERITE	EN Amsterdam	10	-58.8%	8.9%

EURONEXT HEALTHCARE COMPANY PERFORMANCE

Company Exchange Mkt Cap (€m) YTD 1 Month EUROFINS SCIEN EN Paris 9 046 27.4% -3.9% BIOMERIEUX EN Paris 8 275 48.6% -3.3% SARTORIUS STEDIM EN Paris 8 275 48.6% -3.3% GUERBET EN Paris 8 275 48.6% -2.3% ION BEAM APPLICA EN Naxsels 718 -42.2% -6.8% BIOCARTIS NV EN Brussels 638 14.0% -2.7% MDXHEALTH EN Brussels 189 -20.8% -20.5% GARMAT EN Paris 173 -5.2% 9.9% CARMAT EN Paris 111 -14.6% -8.3% IOMUP SACA EN Paris 101 97.5% -0.0% MAGING SA EN Paris 101 97.5% -0.0% MAUNA KEA TECHNO EN Paris 101 97.5% -0.0% GUELLINOVO GROUP S EN Paris 49 -59.4% -21.1% SUPERSONIC	Medical Products & Devices 🔰			Perfor	mance
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QUANTEL EN Paris 101 97.5% 0.0% MAUNA KEA TECHNO EN Paris 99 56.0% -7.6% CURETIS AG EN Amsterdam 62 -38.5% -19.2% CELLNOVO GROUP S EN Paris 49 -59.4% -21.1% SUPERSONIC EN Paris 45 -6.5% 5.4% DIAXONHIT EN Paris 45 -22.0% -9.4% I CERAM EN Paris 41 14.9% 10.2% MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 37 8.5% 3.5% BIOCORP EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -11.7% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 26 -50.7% -51.8% DMS EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25	MEDIAN TECHNOLOG	EN Paris	111	-14.6%	-8.3%
MAUNA KEA TECHNO EN Paris 99 56.0% -7.6% CURETIS AG EN Amsterdam 62 -38.5% -19.2% CELLNOVO GROUP S EN Paris 49 -59.4% -21.1% SUPERSONIC EN Paris 45 -6.5% 5.4% DIAXONHIT EN Paris 45 -25.0% -9.4% I CERAM EN Paris 41 14.9% 10.2% REDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 31 -31.9% -4.9% STENTYS EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 26<	EOS IMAGING SA	EN Paris	109	16.7%	-1.0%
CURETIS AG EN Amsterdam 62 -38.5% -19.2% CELLNOVO GROUP S EN Paris 49 -59.4% -21.1% SUPERSONIC EN Paris 45 -6.5% 5.4% DIAXONHIT EN Paris 45 -25.0% -9.4% I CERAM EN Paris 41 14.9% 10.2% MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 21 <td>QUANTEL</td> <td>EN Paris</td> <td>101</td> <td>97.5%</td> <td>0.0%</td>	QUANTEL	EN Paris	101	97.5%	0.0%
CELLNOVO GROUP S EN Paris 49 -59.4% -21.1% SUPERSONIC EN Paris 45 -6.5% 5.4% DIAXONHIT EN Paris 45 -25.0% -9.4% I CERAM EN Paris 41 14.9% 10.2% MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 22	MAUNA KEA TECHNO	EN Paris	99	56.0%	-7.6%
SUPERSONIC EN Paris 45 6.5% 5.4% DIAXONHIT EN Paris 45 -25.0% -9.4% I CERAM EN Paris 41 14.9% 10.2% MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 25 18.4% -2.4% GENOMIC VIS EN Paris 20 -22.6%	CURETIS AG	EN Amsterdam	62	-38.5%	-19.2%
DIAXONHIT EN Paris 45 -25.0% -9.4% I CERAM EN Paris 41 14.9% 10.2% MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 18.4% -2.4% NOVACYT EN Paris 25 18.4% -2.4% NOVACYT EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 20 -22.6% </td <td>CELLNOVO GROUP S</td> <td>EN Paris</td> <td>49</td> <td>-59.4%</td> <td>-21.1%</td>	CELLNOVO GROUP S	EN Paris	49	-59.4%	-21.1%
I CERAM EN Paris 41 14.9% 10.2% MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4%	SUPERSONIC	EN Paris	45	-6.5%	5.4%
MEDICREA INTERNA EN Paris 41 -40.7% -20.0% CROSSJECT EN Paris 40 0.2% 12.2% BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 <td< td=""><td>DIAXONHIT</td><td>EN Paris</td><td>45</td><td>-25.0%</td><td>-9.4%</td></td<>	DIAXONHIT	EN Paris	45	-25.0%	-9.4%
CROSSJECTEN Paris400.2%12.2%BIOCORPEN Paris378.5%3.5%PIXIUM VISIOEN Paris36-56.6%-11.7%BIOSYNEXEN Paris3361.5%-1.1%STENTYSEN Paris31-31.9%-4.9%THERACLIONEN Paris30-23.5%-6.5%DMSEN Paris27-17.3%-5.1%VISIOMED GROUPEN Paris26-50.7%-15.2%BLUELINEAEN Paris254.4%3.1%EUROMEDIS GROUPEEN Paris2518.4%-2.4%NOVACYTEN Paris22-32.9%3.7%SPINEGUARDEN Paris20-22.6%-11.6%GENOMIC VISEN Paris18-26.3%15.4%SPINEWAYEN Paris1519.4%-11.2%IMPLANETEN Paris14-37.5%-15.3%	I CERAM	EN Paris	41	14 .9 %	10.2%
BIOCORP EN Paris 37 8.5% 3.5% PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5%	MEDICREA INTERNA	EN Paris	41	-40.7%	-20.0%
PIXIUM VISIO EN Paris 36 -56.6% -11.7% BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	CROSSJECT	EN Paris	40	0.2%	12.2%
BIOSYNEX EN Paris 33 61.5% -1.1% STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	BIOCORP	EN Paris	37	8.5%	3.5%
STENTYS EN Paris 31 -31.9% -4.9% THERACLION EN Paris 30 -23.5% -6.5% DMS EN Paris 30 -23.5% -6.5% DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 21 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	PIXIUM VISIO	EN Paris	36	-56.6%	-11.7%
THERACLIONEN Paris30-23.5%-6.5%DMSEN Paris27-17.3%-5.1%VISIOMED GROUPEN Paris26-50.7%-15.2%BLUELINEAEN Paris254.4%3.1%EUROMEDIS GROUPEEN Paris2518.4%-2.4%NOVACYTEN Paris24-42.9%-5.9%THERADIAGEN Paris22-32.9%3.7%SPINEGUARDEN Paris20-22.6%-11.6%GENOMIC VISEN Paris18-26.3%15.4%SPINEWAYEN Paris1519.4%-11.2%IMPLANETEN Paris14-37.5%-15.3%	BIOSYNEX	EN Paris	33	61.5%	-1.1%
DMS EN Paris 27 -17.3% -5.1% VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	STENTYS	EN Paris	31	-31.9%	-4.9%
VISIOMED GROUP EN Paris 26 -50.7% -15.2% BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	THERACLION	EN Paris	30	-23.5%	-6.5%
BLUELINEA EN Paris 25 4.4% 3.1% EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 25 18.4% -2.4% THERADIAG EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	DMS	EN Paris	27	-17.3%	-5.1%
EUROMEDIS GROUPE EN Paris 25 18.4% -2.4% NOVACYT EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	VISIOMED GROUP	EN Paris	26	-50.7%	-15.2%
NOVACYT EN Paris 24 -42.9% -5.9% THERADIAG EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	BLUELINEA	EN Paris	25	4.4%	3.1%
THERADIAG EN Paris 22 -32.9% 3.7% SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	EUROMEDIS GROUPE	EN Paris	25	18.4%	-2.4%
SPINEGUARD EN Paris 20 -22.6% -11.6% GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	NOVACYT	EN Paris	24	-42.9%	- 5.9 %
GENOMIC VIS EN Paris 18 -26.3% 15.4% SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	THERADIAG	EN Paris	22	-32.9%	3.7%
SPINEWAY EN Paris 15 19.4% -11.2% IMPLANET EN Paris 14 -37.5% -15.3%	SPINEGUARD	EN Paris	20	-22.6%	-11.6%
IMPLANET EN Paris 14 -37.5% -15.3%	GENOMIC VIS	EN Paris	18	-26.3%	15.4%
	SPINEWAY	EN Paris	15	19.4%	-11.2%
SAFE ORTHOPAEDIC EN Paris 13 -51.4% -6.9%	IMPLANET	EN Paris	14	-37.5%	-15.3%
	SAFE ORTHOPAEDIC	EN Paris	13	-51.4%	-6.9%

Healthcare Services 🔰			Performance	
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
ESSILOR INTL	EN Paris	23 636	1.9%	0.4%
ORPEA	EN Paris	6 542	33.4%	-0.9%
KORIAN	EN Paris	2 362	6.9 %	6.0%
RAMSAY GENERALE	EN Paris	1 147	-4.1%	-2.1%
LNA SANTE	EN Paris	563	64.7%	-3.9%
BASTIDE	EN Paris	330	89.4%	-1.3%

LONDON HEALTHCARE COMPANY PERFORMANCE

Company Exchange Mkt Cap (Em) YTD 1 Month GLAXOSMITHKLINE London 63 574 -12.8% -3.0% STRAZENECA PLC London 63 061 -21.9% -0.6% SHIRE PLC London 33 061 -21.9% -0.6% INDIVIOR PLC London 2898 35.6% 0.3% BTG PLC London 2970 22.4% -40.0% HIKMA PHARMACEUT London 2021 62.6% 3.0% BCACAR PLC London 2021 62.6% 3.0% BCACAR PLC London 6777 -27.2% 0.2% VECTURA GROUP London 391 19.3% 0.0% CORpany Exchange Mkt Cap (Em) YTD 1 Month ECO ANIMAL HEALT London 391 19.3% 0.0% CARDA PHARMA London 281 27.5% 0.0% CIRACASJA PH London 281 22.7% 0.0% LIANCE PHARMA London	Pharmaceuticals 🔰			Perfor	mance
ASTRAZENECA PLC London 60 044 12.2% -8.0% SHIRE PLC London 33 061 -2.1% -0.6% HUTCHISON CHINA London 2898 35.6% 0.3% BTG PLC London 2790 22.4% -0.0% HIKMA PHARMACEUT London 2 071 62.6% 3.0% ABCAM PLC London 1 980 27.5% VECTURA GROUP London 0 201 62.6% 3.0% ABCAM PLC London 1 980 27.5% -4.9% VECTURA GROUP London 677 -27.2% 0.2% Biotechs → Company Exchange Mkt Cap (cm) VTD 1 Month ECO ANIMAL HEALT London 281 122.1% -2.2% CIRCASSIA PH London 281 122.1% -7.5% BENCHMARK HOLDIN London 244 216.00% 40 PHARMA PLC London 241 21.5% -0.0% FARON PHARMACEUT London 241 21.5% -7.5% BENCHMARK HOLDIN London 244 216.0.3% 40 PHARMA PLC London 241 4216.0.3% 40 PHARMA PLC London 241 9.6% 12.1% KRECD BIOPHARMA London 244 216.0.3% 40 PHARMA PLC London 266 -38.6% 12.1% MERCD BIOPHARMA London 266 -38.6% 12.1% MERCD BIOPHARMA London 189 -21.4% -1.2% SHIELD THERAPEU London 133 -7.0% -10.6% SHIELD THERAPEU London 189 -21.4% -1.2% SHIELD THERAPEU London 133 -7.0% -10.6% SINCLIAR PHARMA London 133 -7.0% -10.6% SINCLIAR PHARMA London 134 -7.38.8% -4.8% VERSEON CORP London 135 -7.31.8% -25.1% SINCLAR PHARMA London 137 -31.8% -25.1% SINCLAR PHARMA LONDON 137 -31.8% -4.1% MWUPHARMA PLC London 138 -18.9% -4.1% MWUFH BIOP PLC London 137 -33.8% 1.11% VERNAL SPLC London 136 -104.1% 30.9% BIOVENTIX PLC London 68 -6.8% 1.7.3% BIOVENTIX PLC London 68 -6.8% 1.7.3% SOMCIH ROLDIN London 68 -6.18% 1.7.3% SINCLAR PHARMA PLC London 75 -33.8% 1.11% VERNAL SPLC London 31 -55.8% CAX PLC VERNAL SCI London 31 -55.8% CAX PLC NDIN London 31 -55.8% CAX PLC VERNAL LONDON 31 -55.8% CAX PLC VERNAL LONDON 31 -55.	Company	Exchange	Mkt Cap (£m)	YTD	1 Month
SHIRE PLC London 33 061 -21,9% -0.6% HUTCHISON CHINA London 3 383 124,3% 10,1% INDIVIOR PLC London 2 790 22,4% -4,0% IKMA PHARMACEUT London 2 790 22,4% -4,0% IKMA PHARMACEUT London 2 021 62,6% 3,0% DECHRA PHARMA London 1 980 27,5% -4,9% VECTURA GROUP London 677 -27,2% 0,2% VECTURA GROUP Exchange Mkt Cap (Em) YTD 1 Month ECO ANIMAL HEALT London 310 -1,1% 9,7% ALLIANCE PHARMA London 281 122,1% -2,2% CIRCASSIA PH London 221 -6,6% 0,0% FARON PHARMACEUT London 221 -7,6% 0,0% FARON PHARMACEUT London 221 -7,5% 0,0% BUCHMARK HOLDIN London 221 -9,6% -2,3% ALLERCY THERA	GLAXOSMITHKLINE	London	63 574	-12.8%	-3.0%
HUTCHISON CHINA London 3 383 124.3% 10.1% INDIVIOR PLC London 2 898 35.6% 0.3% BTG PLC London 2 476 -44.8% -10.1% DECHRA PHARMACEUT London 2 021 62.6% 3.0% BCACAP PLC London 1 980 27.5% -4.9% VECTURA GROUP London 677 -27.2% 0.2% Company Exchange Mkt Cap (fm) YTD 1 Month ECO ANIMAL HEALT London 391 19.3% 0.0% CARCASIS PH London 281 122.1% -2.2% CIRCASIS PH London 281 12.1% -2.2% CIRCASIS PH London 241 21.6% 0.3% AU PHARMA PLC London 244 21.6% 0.3% ALLERGY THERAPEU London 248 19.6% -2.3% ALLERGY THERAPEU London 189 -4.8% -2.5% SILLERGY THERAPEU	ASTRAZENECA PLC	London	60 044	12.2%	-8.0%
INDIVIOR PLC London 2 898 35.6% 0.3% BTG PLC London 2 790 22.4% -4.0% HIKMA PHARMACEUT London 2 021 62.6% 3.0% BECHRA PHARMA London 1 980 2 021 62.6% 3.0% ABCAM PLC London 1 980 2 77.2% -4.9% VECTURA GROUP London 677 -27.2% 0.2% Biotechs Mkt Cap (Em) YTD 1 Month CCO ANIAL HEALT London 281 122.1% -2.2% CIRCASSIA PH London 310 -1.1% -7.5% ALLIANCE PHARMA London 221 -56.5% 0.0% FARON PHARMACEUT London 221 -56.5% 0.0% ALLERCY THERPEU London 21 -52.1% -7.5% BENCHMARK HOLDIN London 21 -96.2.3% -10.3% VERSED CORP London 189 -21.4% -12.3%	SHIRE PLC	London	33 061	-21.9%	-0.6%
BTG PLC London 2 790 22.4% -4.0% HIKMA PHARMACEUT London 2 476 -44.8% -10.1% DECHRA PHARMA London 2 021 62.6% 3.0% ABCAM PLC London 1 980 27.5% -4.9% VECTURA GROUP London 677 -27.2% 0.2% Biotechs Exchange Mkt Cap (Em) YTD 1 Month ECO ANIMAL HEALT London 281 122.1% -2.2% CIRCASSIA PH London 281 12.1% -2.2% CIRCASSIA PH London 281 12.1% -2.2% CIRCASSIA PH London 281 12.1% -7.5% ALLINCE PHARMA London 281 12.6% 0.0% MERCD BIOPHARACEUT London 221 -52.1% -7.5% ALLERCY THERAPEU London 126 -5.4% -1.1% VERSEON CORP London 189 -21.4% -1.2% VES	HUTCHISON CHINA	London	3 383	124.3%	10.1%
HIKMA PHARMACEUT London 2 476 -44.85 -10.15 DECIRA PHARMA London 2 021 62.6% 3.0% ABCAM PLC London 1 980 27.5% -4.9% VECTURA GROUP London 677 -27.2% 0.2% Biotechs - - Performance Company Exchange Mkt Cap (Em) YTD 1 Month ECO ANIMAL HEALT London 281 122.1% -2.2% CIRCASSIA PH London 281 122.1% -2.2% ALLIANCE PHARMA London 281 12.1% -2.3% ALLIANCE PHARMA London 221 -52.1% -7.5% BENCHMARK HOLDIN London 221 -52.1% -7.5% ALLERGY THERAPEU London 19.6% -2.3% -11.2% YERSEON CORP London 196 -55.4% -12.2% SILENCHARK HOLDIN London 138 97.0% -10.5% SILENCY THERAPEU London<	INDIVIOR PLC	London	2 898	35.6%	0.3%
DECHRA PHARMA London 2 021 62.6% 3.0% ABCAN PLC London 1 980 27.5% -4.9% VECTURA GROUP London 677 27.5% 0.2% Biotechs Performance Company Exchange Mkt Cap (Em) YTD 1 Month ECO ANIMAL HEALT London 391 12.1% -2.2% CIRCASSIA PH London 281 12.1% -2.2% CIRCASSIA PH London 281 12.1% -2.2% CIRCASSIA PH London 244 216.0% 0.3% AD PHARMACEUT London 244 216.0% 0.3% AD PHARMA PLC London 221 52.1% -7.5% BENCHMARK HODIN London 266 -38.6% 12.1% MEREO BIOPHARMA London 169 35.5% -15.2% SINCLAR PHARMA London 137 -31.8% -23.% SINCLAR PHARMA London 138 97.0% <td>BTG PLC</td> <td>London</td> <td>2 790</td> <td>22.4%</td> <td>-4.0%</td>	BTG PLC	London	2 790	22.4%	-4.0%
ABCAM PLC London 1 980 27.5% -4.9% VECTURA GROUP London 677 -27.2% 0.2% Biotechs - - - -27.2% 0.2% Biotechs - - -27.2% 0.2% Company Exchange Mkt Cap (£m) YTD 1 Month ECO ANIMAL HEALT London 391 19.3% 0.0% OXF ORD BIOMEDICA London 281 122.1% -2.2% CIRCASSIA PH London 282 27.6% 0.0% ALLIANCE PHARMA London 244 216.0% 0.3% FARON PHARMACEUT London 221 -52.1% -7.5% BENCHMARK HOLDIN London 266 -38.6% 12.1% MEREO BIOPHARMA London 169 36.5% -15.2% VERSEON CORP London 137 -31.8% -22.51% SILED THERAPEU London 138 97.0% -10.5% SINCLAIR PHARMA	HIKMA PHARMACEUT	London	2 476	-44.8%	-10.1%
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RENEURON GROUP P London 60 -27.6% -2.6% AMRYT PHARMA PLC London 59 10.9% 12.3% SCANCELL HOLDING London 38 -16.9% -5.8% C4X DISCOVERY HO London 37 -17.3% 0.6% CATHAY INTL HLDG London 31 -56.2% -14.7% FUTURA MEDICAL London 31 -53.8% -11.9% MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%		London	68		4.0%
AMRYT PHARMA PLC London 59 10.9% 12.3% SCANCELL HOLDING London 38 -16.9% -5.8% C4X DISCOVERY HO London 37 -17.3% 0.6% CATHAY INTL HLDG London 31 -56.2% -14.7% FUTURA MEDICAL London 31 -53.8% -11.9% MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%				-6.8%	
SCANCELL HOLDING London 38 -16.9% -5.8% C4X DISCOVERY HO London 37 -17.3% 0.6% CATHAY INTL HLDG London 31 -56.2% -14.7% FUTURA MEDICAL London 31 -53.8% -11.9% MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%	RENEURON GROUP P	London	60	-27.6%	-2.6%
C4X DISCOVERY HO London 37 -17.3% 0.6% CATHAY INTL HLDG London 31 -56.2% -14.7% FUTURA MEDICAL London 31 -53.8% -11.9% MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%	AMRYT PHARMA PLC	London	59	10.9%	12.3%
CATHAY INTL HLDG London 31 -56.2% -14.7% FUTURA MEDICAL London 31 -53.8% -11.9% MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%	SCANCELL HOLDING	London		- 16.9 %	
FUTURA MEDICAL London 31 -53.8% -11.9% MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%	C4X DISCOVERY HO	London	37	-17.3%	0.6%
MIDATECH PHARMA London 27 -62.5% -11.1% SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%	CATHAY INTL HLDG	London	31	-56.2%	-14.7%
SAREUM HOLDINGS London 23 13.3% -10.5% OXFORD PHARMASCI London 18 -6.3% 22.9%	FUTURA MEDICAL	London	31	-53.8%	-11.9%
OXFORD PHARMASCI London 18 -6.3% 22.9%	MIDATECH PHARMA	London	27	-62.5%	-11.1%
	SAREUM HOLDINGS	London	23	13.3%	-10.5%
SKINBIOTHERAPEUT London 13 n.a 4.9%	OXFORD PHARMASCI	London	18	-6.3%	22.9%
	SKINBIOTHERAPEUT	London	13	n.a	4.9%



Medical Products & Devices 🔌			Performance		
Company	Exchange	Mkt Cap (£m)	YTD	1 Month	
SMITH & NEPHEW	London	11 362	8.4%	-5.7%	
CONVATEC GROUP P	London	3 818	-16.0%	2.0%	
ADVANCED MEDICAL	London	667	41.9 %	-8.6%	
CONSORT MEDICAL	London	559	9.1%	1.3%	
MEDICA GROUP PLC	London	237	n.a	-7.4%	
TRISTEL PLC	London	121	84.2%	3.8%	
EKF DIAGNOSTICS	London	120	53.3%	2.9%	
IMMUNODIAGNOSTIC	London	79	29. 1%	-3.6%	
BIOQUELL PLC	London	58	83.9 %	5.8%	
CREO MEDICAL GRO	London	56	-14.7%	-12.0%	
NETSCIENTIFIC PL	London	46	2.3%	22.9%	
AVACTA GROUP PLC	London	44	-9.7 %	-3.3%	

Healthcare Services 🔰			Perfor	rmance
Company	Exchange	Mkt Cap (£m)	YTD	1 Month
CLINIGEN GROUP P	London	1 229	42.3%	-13.3%
OXFORD BIODYNAMI	London	178	36.6%	-15.5%
ANPARIO PLC	London	96	46.8%	-3.6%
ERGOMED PLC	London	82	25.6%	-8.8%
ABZENA PLC	London	68	-11.8%	11.4%
HVIVO PLC	London	43	-67.1%	0.0%

GERMAN HEALTHCARE COMPANY PERFORMANCE

Pharmaceuticals 🔰			Perfor	mance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
BAYER AG-REG	Xetra	87 863	9.7%	-7.3%
MERCK KGAA	Xetra	38 734	- 9. 1%	-4.0%
BIOTEST AG	Xetra	818	34.4%	-13.3%
MEDIGENE AG	Xetra	248	-6.5%	-13.0%
ECKERT & ZIEGLER	Xetra	205	47.9 %	7.2%
MAGFORCE AG	Xetra	171	42.9 %	-13.3%
CO.DON AG	Xetra	158	199.0%	-5.6%
BIOFRONTERA AG	Xetra	155	27.6%	11.1%
HAEMATO AG	Xetra	108	-15.7%	-10.3%
SANOCHEMIA PHARM	Xetra	19	11.0%	-4.8%

Biotechs 🔰			Perfo	rmance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
MORPHOSYS AG	Xetra	2 310	61.0%	2.8%
EVOTEC AG	Xetra	1 830	66.7%	- 26. 1%
FORMYCON AG	Xetra	277	27.7%	-8.3%
4SC AG	Xetra	150	102.9%	0.2%
PAION AG	Xetra	148	-0.3%	-12.5%
MOLOGEN AG	Xetra	88	69. 1%	-10.6%
HEIDELBERG PHARM	Xetra	61	21.9%	-13.0%
ELANIX BIOTECHNO	Xetra	25	-18.4%	-10.8%
CYTOTOOLS AG	Xetra	21	20.0%	-14.1%
BIOSILU HEALTHCA	Munich	6	-47.1%	-39.2%

Medical Products & Devices 🎽	Medical Products & Devices 🔌			rmance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
FRESENIUS SE & C	Xetra	33 574	-17.8%	-14.8%
FRESENIUS MEDICA	Xetra	25 367	3.5%	-1.1%
SARTORIUS AG	Xetra	5 768	4.9 %	-3.8%
CARL ZEISS ME-BR	Xetra	4 427	42.7%	7.5%
DRAEGERWERK-PREF	Xetra	1 120	-11.7%	-28.4%
STRATEC BIOMEDIC	Xetra	824	52.9 %	5.5%
PULSION MED SY-R	Munich	210	12.3%	2.0%
EPIGENOMICS AG	Xetra	97	-11.3%	-3.7%
GERATHERM MEDICA	Xetra	62	10.5%	-3.5%
HUMANOPTICS AG	Frankfurt	50	167.4%	36.3%
AAP IMPLANTATE	Xetra	46	32.0%	-14.2%
CURASAN AG	Xetra	19	17.9%	1.7%

Healthcare Services 🔊			Perfo	rmance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
RHOEN-KLINIKUM	Xetra	1 947	14.8%	-1.8%
MEDICLIN AG	Xetra	304	9.6%	11.6%
M1 KLINIKEN AG	Frankfurt	195	1 5.9 %	5.1%
MATERNUS-KLINIKE	Xetra	48	80.5%	4.6%
VITA 34 AG	Xetra	39	80.5%	-16.2%
EIFEL-KLINIK AG	Frankfurt	16	-3.1%	0.4%

LONZA GROUP -REG

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SWISS HEALTHCARE COMPANY PERFORMANCE

Pharmaceuticals 🗲			Perfo	rmance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
NOVARTIS AG-REG	SIX Swiss Ex	220 338	17.7%	0.8%
ROCHE HLDG-GENUS	SIX Swiss Ex	213 229	9.6%	6.6%
VIFOR PHARMA AG	SIX Swiss Ex	8 028	9.3%	-4.3%
COSMO PHARMACEUT	SIX Swiss Ex	2 119	-15.9%	-0.4%
CASSIOPEA SPA	SIX Swiss Ex	340	15.6%	-2.0%
Biotechs 🎽			Dorfo	rmance
	Exchange	Mkt Cap (€m)	YTD	1 Month
Company IDORSIA LTD	SIX Swiss Ex	2 561		7.0%
BASILEA PHAR-REG	SIX SWISS EX	2 561	n.a 4.7%	-5.1%
	SIX Swiss Ex	526	4.7%	-5.1%
MOLECULAR PARTNE EVOLVA HOLDING S		247	-47.7%	-10.7%
	SIX Swiss Ex			-3.0%
NEWRON PHARMACEU	SIX Swiss Ex	206	-42.7%	
SANTHERA PHA-REG	SIX Swiss Ex	187	-44.0%	-12.0%
KUROS BIOSCIENCE	SIX Swiss Ex	104	-36.4%	-5.6%
ADDEX THERAPEUTI	SIX Swiss Ex	33	16.8%	-6.1%
RELIEF THERAPEUT	SIX Swiss Ex	20	-66.7%	0.0%
Medical Products & Devices 🔰			Perfo	rmance
Company	Exchange	Mkt Cap (€m)	YTD	1 Month
STRAUMANN HLDG-R	SIX Swiss Ex	11 520	84.2%	4.7%
SONOVA HOLDING A	SIX Swiss Ex	10 211	28.5%	-12.3%
TECAN GROUP AG-R	SIX Swiss Ex	2 361	28.8%	-4.5%
YPSOMED HOLD-REG	SIX Swiss Ex	2 109	-9.3%	-4.7%
IVF HARTMANN-REG	SIX Swiss Ex	432	-10.2%	-2.4%
COLTENE HOLD-REG	SIX Swiss Ex	400	32.3%	-4.7%
LIFEWATCH AG-REG	SIX Swiss Ex	314	65.9 %	19.3%
SHL TELEMEDI-REG	SIX Swiss Ex	75	1.0%	-8.3%
Healthcare Services →			Derfo	rmance
	Evenance	Mit Can (Fm)	YTD	1 Month
Company	Exchange	Mkt Cap (€m)	עוז	i montr

SIX Swiss Ex

SIX Swiss Ex

SIX Swiss Ex

19 019

1 850

1 012

58.5%

53.8%

85.1%

-3.5%

8.0%

0.1%

KEY SECTOR NEWS IN NOVEMBER

DATE	NEWS
30 Nov 17	GENMAB - Dara, a new string to its bow
29 Nov 17	MERCK KGAA - Bavencio fails 3L Gastric, potential marginally impacted
29 Nov 17	Optical & Eyewear Sector - EssilorLuxottica: proposed combination approved in Canada
27 Nov 17	GENMAB - Darzalex enters the blockbuster league
23 Nov 17	INNATE PHARMA - Lirilumab/Opdivo lost its head & neck
22 Nov 17	GENMAB - Dara is gaining the first line in MM
22 Nov 17	ABLYNX - Capla phIII accepted for late breaking presentation at ASH: a key driver to penetration
22 Nov 17	NOVO NORDISK - Semaglutide more than central for the investment case
20 Nov 17	DBV TECHNOLOGIES - Confirmed safety profile should offer some relief
20 Nov 17	ROCHE - HEAVEN-3 and IMpower150 both positive
20 Nov 17	BIOM'UP - To bleed or not to bleed
17 Nov 17	ROCHE - ACE910 approved in the US as Hemlibra for HemA with inhibitors
15 Nov 17	GENMAB - USD25m milestone received as a result of first sales of Dara in Japan
15 Nov 17	ASTRAZENECA - Fasenra (benralizumab) approved in the US
15 Nov 17	BAYER - Bayer acquires rights to new oncology drug to be launched next year
14 Nov 17	QIAGEN - Guidance of 2,000 cumulative QIAsymphony placed exceeded
10 Nov 17	TRANSGENE - Successful capital increase, EUR14.4m raised
10 Nov 17	SANOFI - Sanofi licenses-in a BTK inhibitor in MS
9 Nov 17	ONCIMMUNE - Blood sampling made easier for lung cancer test
9 Nov 17	MERCK KGAA - Soft profitability of the LS business offset by lower corporate costs
8 Nov 17	NOVARTIS - Kisqali expands its benefit in premenopausal women with ER+ BC
8 Nov 17	CELYAD - Everything it takes to succeed?
7 Nov 17	MORPHOSYS - Q3 financial results in line with expectations
7 Nov 17	CELLECTIS - Ongoing phase I trials with UCART123 will soon resume patient enrolment
7 Nov 17	QIAGEN - In-line Q3 results and FY17 guidance maintained
3 Nov 17	NICOX - Approval of Vyzulta by the FDA
3 Nov 17	SANOFI - 2018 looks like another transition year
3 Nov 17	ZEALAND - Severe revision to our assumptions for Soliqua
2 Nov 17	NOVARTIS - CAR-T space: Competition intensifies, as expected
2 Nov 17	FRESENIUS MED CARE - Q3 results. Hurricane's impact is meaningful
2 Nov 17	FRESENIUS SE - Management sees achievement of 2018 expectations challenging for AKORN
1 Nov 17	NOVO NORDISK - Mixed picture in third-quarter and mixed guidance for 2018 too
1 Nov 17	ASTRAZENECA - Fourth growth driver in oncology now FDA-approved

EUROPEAN FUNDRAISING : IPO & FOLLOW-ONS

	Pricing Date	lssuer	Country	Industry	Size (€m)	Offer type	Offer To Date
	11/29/2017	Hansa Medical AB	SWEDEN	Medical Labs&Testing Srv	55	Follow-On	n.a.
	11/28/2017	Biocartis NV	BELGIUM	Diagnostic Equipment	80	Follow-On	0%
	11/22/2017	IRRAS AB	SWEDEN	Medical Products	30	IPO	-22%
	11/16/2017	Orphazyme A/S	DENMARK	Medical-Biomedical/Gene	81	IPO	-6%
	11/15/2017	Ambu A/S	DENMARK	Medical Instruments	91	Follow-On	-3%
	11/14/2017	ProQR Therapeutics NV	NETHERLANDS	Medical-Drugs	14	Follow-On	2%
	11/10/2017	Erytech Pharma SA	FRANCE	Medical-Biomedical/Gene	123	IPO	22%
	11/10/2017	Cambian Group PLC	BRITAIN	Medical-Outptnt/Home Med	17	Follow-On	n.a.
	11/10/2017	Transgene SA	FRANCE	Medical-Biomedical/Gene	14	Follow-On	9%
Last month	11/08/2017	InflaRx NV	GERMANY	Medical-Drugs	85	IPO	42%
	10/31/2017	Eurofins Scientific SE	LUXEMBOURG	Medical Labs&Testing Srv	299	Follow-On	-6%
	10/31/2017	Nanobiotix	FRANCE	Medical Products	27	Follow-On	0%
	10/25/2017	TheraNexus SADIR	FRANCE	Medical-Biomedical/Gene	20	IPO	-3%
	10/24/2017	Ablynx NV	BELGIUM	Medical-Biomedical/Gene	196	IPO	32%
	10/24/2017	uniQure NV	NETHERLANDS	Medical-Drugs	78	Follow-On	-17%
	10/18/2017	Akari Therapeutics PLC	BRITAIN	Medical-Drugs	15	Follow-On	-3%
	10/11/2017	Biom'Up SACA	FRANCE	Medical Products	43	IPO	-5%
	10/10/2017	Kiadis Pharma NV	NETHERLANDS	Medical-Biomedical/Gene	18	Follow-On	-2%
	10/05/2017	Faron Pharmaceuticals Oy	FINLAND	Medical-Drugs	11	Follow-On	6%
	09/27/2017	Terveystalo Oyj	FINLAND	Medical-Hospitals	877	IPO	-3%
	09/27/2017	Ascendis Pharma A/S	DENMARK	Medical-Drugs	132	Follow-On	5%
	09/27/2017	NuCana PLC	BRITAIN	Medical-Biomedical/Gene	96	IPO	-18%
	09/27/2017	Handicare Group AB	SWEDEN	Medical Products	89	IPO	n.a.
	09/27/2017	Nightstar Therapeutics PLC	BRITAIN	Medical-Biomedical/Gene	73	IPO	28%
	09/26/2017	Newron Pharmaceuticals SpA	ITALY	Medical-Biomedical/Gene	24	Follow-On	-15%
	09/21/2017	Amryt Pharma Plc	IRELAND	Medical-Drugs	15	Follow-On	8%
	09/19/2017	Nabriva Therapeutics PLC	IRELAND	Medical-Drugs	67	Follow-On	-24%
	09/13/2017	BioArctic AB	SWEDEN	Medical-Biomedical/Gene	84	IPO	n.a.
	09/13/2017	Summit Therapeutics PLC	BRITAIN	Medical-Drugs	17	Follow-On	-2%
3 months	09/06/2017	Straumann Holding AG	SWITZERLAND	Medical Products	228	Follow-On	22%
	08/29/2017	Destiny Pharma PLC	BRITAIN	Medical-Drugs	17	IPO	-27%
	08/25/2017	XSpray Pharma AB	SWEDEN	Medical-Biomedical/Gene	14	IPO	80%
	08/15/2017	Oxford Immunotec Global PLC	BRITAIN	Diagnostic Equipment	34	Follow-On	-7%
	08/15/2017	Nicox	FRANCE	Medical-Biomedical/Gene	26	Follow-On	36%
	08/08/2017	Zealand Pharma A/S	DENMARK	Medical-Drugs	79	IPO	-24%
	07/20/2017	Tissue Regenix Group PLC	BRITAIN	Medical-Biomedical/Gene	45	Follow-On	-28%
	07/07/2017	Cellnovo Group SA	FRANCE	Patient Monitoring Equip	17	Follow-On	-29%
	06/22/2017	GenSight Biologics SA	FRANCE	Medical-Biomedical/Gene	23	Follow-On	-15%
	06/21/2017	Mithra Pharmaceuticals SA	BELGIUM	Medical Products	26	Follow-On	28%
	06/20/2017	Onxeo SA	FRANCE	Medical-Drugs	15	Follow-On	-74%

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PRIVATE EQUITY MARKET ACTIVITY

Recent notable M&A / fundraisings in France, Germany, UK, Netherland, Switzerland & Belgium (1)

	DATE	TARGET	СТҮ	DESCRIPTION	BUYER / INVESTOR
	Nov 17	Xeltis	SWI	Medtech company developing bioabsorbable heart valves	Ysios, Kurma, LSP, VI Par.
	Nov 17	Horama	FRA	Gene therapy for rare, inherited, retinal diseases	Kurma, Pontifax, Omnes
	Nov 17	Pharmaterials	UK	CDMO, specialized in oral and inhaled drug delivery	Quotient Sciences
	Nov 17	Henke-Sass, Wolf	GER	Acquisition of disposable syringe division	B Braun
	Nov 17	NousCom	SWI	Biotech company specialized in cancer vaccines	Abingworth, 5AM, LSP
	Nov 17	Medisize	NET	Medtech manufacturing respiratory and anesthesia products	Flexicare
	Nov 17	Inoges	GER	Operator of outpatient rehabilitation	Celenus Kiniken/Orpea
	Nov 17	Synergy Health	UK	Medtech manufacturing products for wound care and surgery	Verna Group Limited
	Nov 17	Philogeris	FRA	Retirement-home operator	Y. Reboulleau (OBO)
Last month	Nov 17	AZA	NET	Home care services	TZorg
	Nov 17	Oberberg Klinik	GER	Operator of mental health clinics	Trilantic Europe
	Oct 17	Tridem Pharma	FRA	Distribution of pharmaceuticals to the African region	Fosun Pharmaceutical
	Oct 17	AAAP	FRA	Radiopharmaceuticals for molecular nuclear therapy/diagnosis	Novartis
	Oct 17	Jotec	GER	Medtech specialized in devices for cardiovascular diseases	CryoLife
	Oct 17	Vexim	FRA	Medtech marketing devices for vertebral compression fractures	Stryker
	Oct 17	Invento Medical	GER	Single-use high definition endoscopy products	Ambu
	Oct 17	Menix Group	FRA	Orthopedics, dental implants, and cranio maxillofacial surgery	Five Arrow Managers
	Oct 17	Immatics	GER	Cancer immunotherapy with T-cell technology	Amgen, Wellington Part.
	Oct 17	Sebia	FRA	Clinical protein electrophoresis products for In Vitro Diag.	Tethys, CVC Capital
	Oct 17	InflaRx	GER	Clinical-stage company specialized in auto-immune disorders	Bain Cap., Cormorant AM
	Oct 17	Almaviva	FRA	Fifth largest private hospital network	Antin Infrastructure Part.
	Sep 17	Seeklink Brunnen	SWI	Clinic for holistic and depression diseases	Ameos
	Sep 17	Eligo Bioscience	FRA	Biopharma focused on microbiome and CRISPR technology	Khosla & Seventure
	Sep 17	Autolus Ltd.	UK	Development and distribution of CAR-T cell therapies	Cormoran AM
	Sep 17	CMR	UK	Developing robotic systems in the surgical sector	Watrium
	Sep 17	Sophia Genetics	SWI	Provider of genome information storage and analysis solutions	Balderton Capital
	Sep 17	Immunic	GER	Biotech specialized in autoimmune and inflammatory diseases	Omega Funds & Fund+
	Sep 17	Quantum Pharma	UK	Niche pharmaceutical developer, manufacturer and supplier	Clinigen Group
3 months	Sep 17	Rigontec	GER	Biotech specialized in novel immuno-oncology therapies	Merck
	Aug 17	imes-icore	GER	Computer aided manufacturing systems for medical industry	Ardian Expansion
	Jul 17	CoreMedic	SWI	Transfemoral repair systems to treat heart valve malfunctions	SHS Gesellschaft
	Jul 17	Sanofi	FRA	Sanofi's smallpox vaccine live business	Emergent BioSolutions
	Jul 17	Cobalt Light Sys	UK	Provider of Raman spectroscopic instruments for pharma	Agilent Technologies
	Jul 17	Arseus Medical	BEL	Distributor of medical sector equipment	Gimv
	Jul 17	Mimedis	SWI	Design and manufacture of patient specific bone implants	Medartis



YOUR TEAM FOR HEALTHCARE

CORPORATE FINANCE

OLIVIER GARNIER Managing Partner +33 1 56 68 75 71 ogarnier@bryangarnier.com

PHIL WALKER Managing-Director +44 207 332 2520 pwalker@bryangarnier.com

ROMAIN ELLUL Vice-President +33 1 56 68 75 51 rellul@bryangarnier.com

REMI NEGRE Analyst +33 1 70 36 57 48 rnegre@bryangarnier.com HERVÉ RONIN Partner +33 1 70 36 57 22 hronin@bryangarnier.com

ANNE MOORE Vice-President +33 1 56 68 75 39 amoore@bryangarnier.com

MICKAEL DUBOURD Associate +33 1 56 68 75 30 mdubourd@bryangarnier.com

EQUITY RESEARCH / SALES

ERIC LE BERRIGAUD Equity Analyst (Big Pharma) eleberrigaud@bryangarnier.com

JAMILA EL BOUGRINI Equity Analyst (Biotech) jelbougrini@bryangarnier.com

DOMINIC WILSON Managing Director (UK) dwilson@bryangarnier.com HUGO SOLVET Equity Analyst (Medtech) hsolvet@bryangarnier.com

MARION LEVI Equity Analyst (Biotech) mlevi@bryangarnier.com

GARY WAANDERS Managing Director (UK) gwaanders@bryangarnier.com

JMP BRYAN GARNIER EQUITY RESEARCH COVERAGE

In November 2016 Bryan, Garnier & Co formed a partnership with JMP Securities LLC (NYSE : JMP) to create JMP Bryan Garnier, a full-service transatlantic investment banking alliance for technology and healthcare companies.



BRYAN, GARNIER & CO SELECTED CREDENTIALS





DEDICATED TO GROWTH

Bryan, Garnier & Co is a European, full service growth-focused independent investment banking partnership founded in 1996. The firm provides equity research, sales and trading, private and public capital raising as well as M&A services to growth companies and their investors. It focuses on key growth sectors of the economy including Technology, Media & Telecoms, Healthcare, Smart Industries & Energy, Consumer, Brands & Retail and Business Services. Bryan, Garnier & Co is a fully registered broker dealer authorized and regulated by the FCA in Europe and the FINRA in the U.S. Bryan, Garnier & Co is headquartered in London, with additional offices in Paris, Munich and New York. The firm is a member of the London Stock Exchange and Euronext.

LONDON

Beaufort House, 15 St. Botolph Street London EC3A 7BB United Kingdom

+44 20 7332 2500

PARIS

26 Avenue des Champs-Elysées 75008 Paris France

+33 1 56 68 75 20

MUNICH

Widenmayerstrasse 29 80538 Munich Germany

+49 89 24 22 62 11

NEW YORK

750 Lexington Avenue 16th floor New York NY 10022

+1 212 337 7000

bryangarnier.com

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