



Sustainable Profitable Growth through Innovation

Pascal Soriot | Chief Operating Officer
Roche Pharmaceuticals



Agenda

- **Growth Through Innovation** Pascal Soriot, COO Pharma
- **Near Term Opportunities** David Loew, Global Product Strategy
- **Managing Biosimilars** Mike Doherty, Global Regulatory Affairs
- **Late Stage Pipeline** Hal Barron, Global Product Development



Delivering sustainable profitable growth

Maximising & protecting our existing franchises

- Driving short term growth - Avastin, Herceptin, MabThera, Actemra
- Delivering value for money
- Enhancing key products and developing improved molecules
- Developing combinations to raise the standard of care
- Addressing the biosimilar threat



Key oncology product growth drivers

Increased penetration, new indications, longer duration, and emerging markets

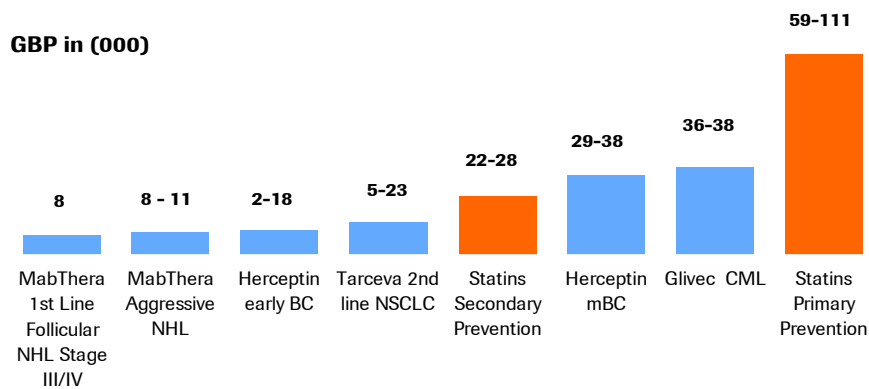
	Increased Penetration	Emerging Markets	New indications	Longer duration
Avastin	US: mBC, mNSCLC	✓	mBC extensions Ovarian cancer	mCRC TML
	EU: mBC, mNSCLC, mCRC	✓	DLBCL GBM	1L ovarian cancer Adjuvant
	Japan: mNSCLC, mCRC	✓	Adjuvant BC, CC, NSCLC 1L NSCLC + Tarceva	
MabThera/ Rituxan	EU: iNHL maintenance, CLL	✓	CLL iNHL maintenance	iNHL maintenance
Herceptin	Japan: mBC	✓	Gastric cancer	HERA 2-yr



Pricing: Value versus cost

Roche oncology products demonstrate cost-effectiveness

Cost per QALY for selected drugs* (UK data – NICE/SMC)



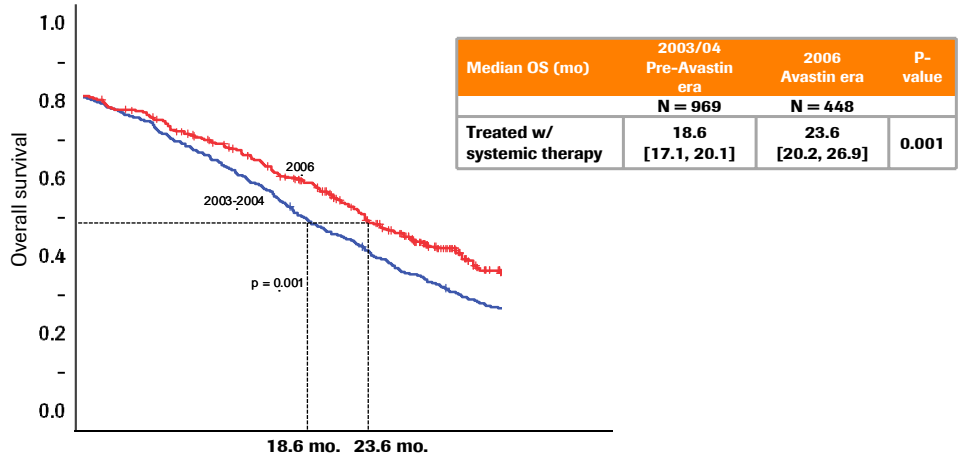
Avastin in mCRC: NICE process ongoing
*QALY = quality-adjusted life year



Changing the natural history of colorectal cancer

Impact of Avastin on overall survival in British Columbia

Overall Survival for patients treated with systemic therapy for mCRC

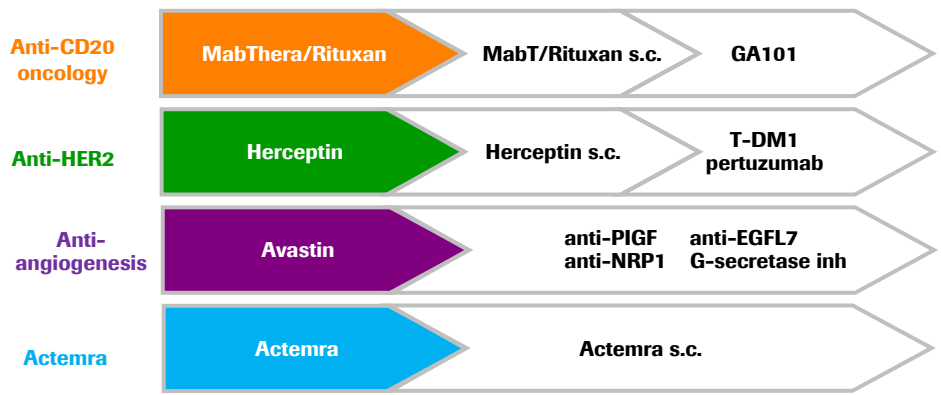


D.J. Renouf et. Al, ASCO 2009 (Abstract #4114)

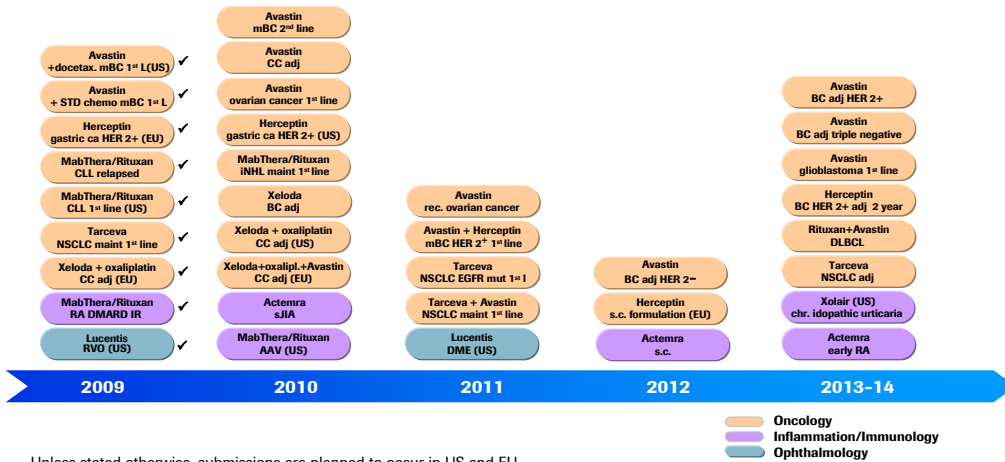


Managing franchises

Adding benefits to key medicines; developing better ones



35 Line extensions of existing products could be filed by 2014



Unless stated otherwise, submissions are planned to occur in US and EU
 ✓ indicates a submission which has occurred

Status as of December 31, 2009

Oncology: Setting the standard of care Combining products in our portfolio



	Avastin	Anti-PIGF	Anti-NRP1	Anti-EGFL7	G-secretase inh	Herceptin	Pertuzumab	T-DM1	Tarceva	GA201	Xeloda	MabThera/Rituxan	Anti-CD20/GA101	BRAF Inh	CIK	RG7420 (MEK)	RG7321 (PI3K)	RG7422 (PI3K/mTOR)	Dulanermin	ABT-263	MDM2 Antagonist	CK127	Hedgehog	MetMab	huMAB Glypican-3 ¹	Topoisomerase I inh ¹	
Breast cancer	✓					✓	✓	✓			✓	✓	✓														
Lung Cancer	✓								✓	✓										✓					✓		
Colorectal Cancer	✓										✓			✓										✓			✓
Melanoma	✓													✓													
Glioblastoma	✓																										
Solid Tumors	✓	✓	✓	✓	✓	✓				✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hematology	✓											✓	✓							✓	✓						
Halozyme						✓						✓															
Pathway/MOA	Angiogenesis					HER2			HER1		B-Cell		BRAF/MEK		PI3K		Apo		Other								

¹ Opt-in opportunity from Chugai



Biosimilars in the US and Europe

Our innovative portfolio many years away from patent expiry

US

Long primary patent protection of our key biologics

- Avastin: 2019
- Lucentis: 2019
- Rituxan: 2018
- Xolair: 2018
- Herceptin: 2019
- Pegasys: 2018

Currently no regulatory pathway for biosimilars

- Clinical trials required
- No inter-changeability
- Reasonable exclusivity period

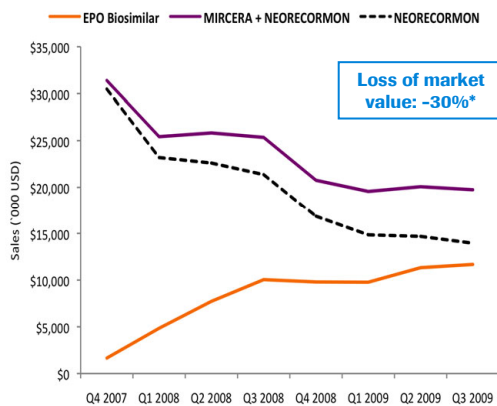
Europe / ROW

- Guidance adopted for specific classes of recombinant proteins
- Likely to have stringent regulatory standards for Monoclonals (eg. Herceptin, MabThera)

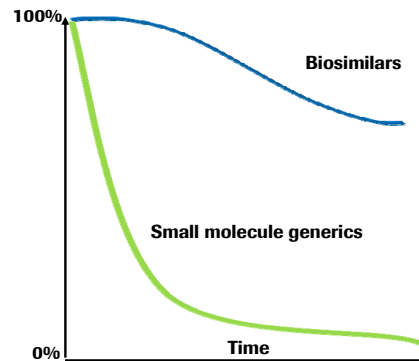
Biosimilars: Slower erosion *EPO experience in Germany*



EPO product sales in Germany



Biosimilars vs. Small Molecules erosion (illustrative)



Source: IMS, Datamonitor

Delivering sustainable profitable growth



Maximising & protecting our existing franchises

Entering new franchises with differentiated medicines

Expanding in the emerging markets with focus on E7

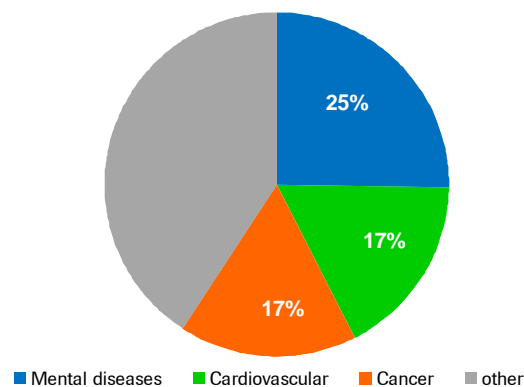
Improving our efficiency

Reducing late stage risk – setting the bar high for differentiation

Roche innovation in areas with high disease burden



Total disease burden in DALYs

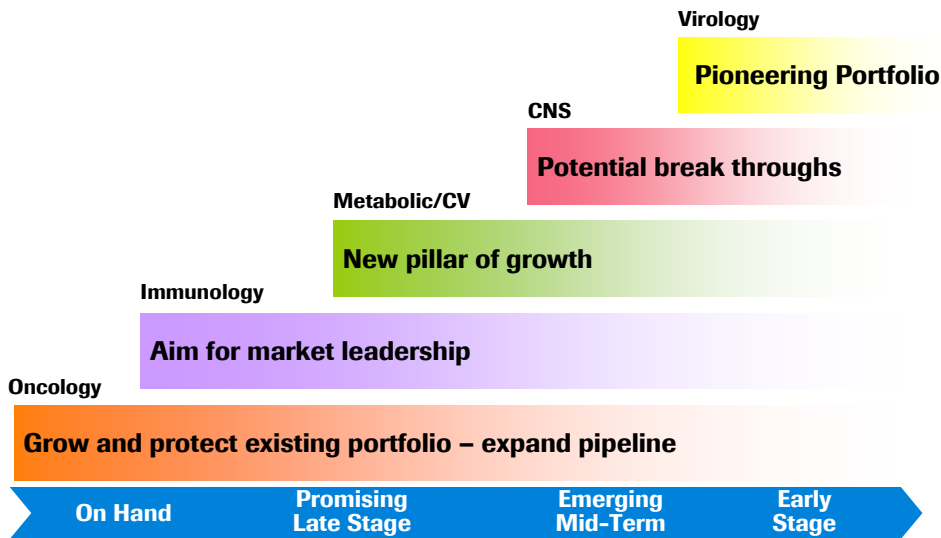


Source: A pan-European comparison regarding patient access to cancer drugs, Karolinska Institute
DALY: Disability-Adjusted Life Years, figures from 2002/3; Commonly used measure of the burden of disease



Building on innovation leadership

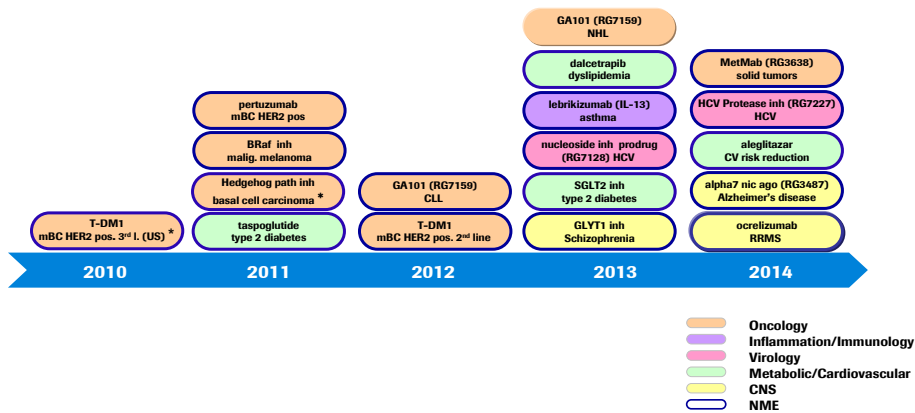
Strong growth through differentiated medicines



Sixteen NMEs and their additional indications could be submitted over the next 5 years



Projects Currently in Phase 2 and 3



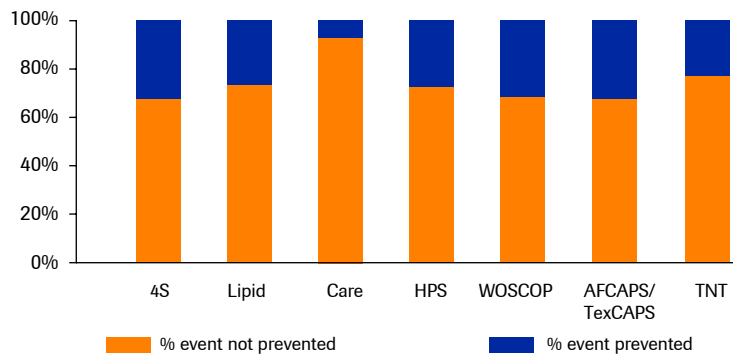
Unless stated otherwise, submissions are planned to occur in US and EU. * Potential registration with Phase 2 study Status as of March 15, 2010



Metabolism/CV: High Unmet Need Remains

> 65% of CV events not prevented despite wide use of statins

Major clinical trials aimed at reducing cardiovascular risk



4S, The Lancet, 1994 - Lipid, NEJM, 1998 - Care, NEJM, 1996 - HPS, The Lancet, 2002
WOSCOP, NEJM, 1999 - AFCAPS/TexCAPS, JAMA, 1998 - TNT, NEJM, 2005



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Entering new franchises with differentiated medicines

Expanding in the emerging markets with focus on E7

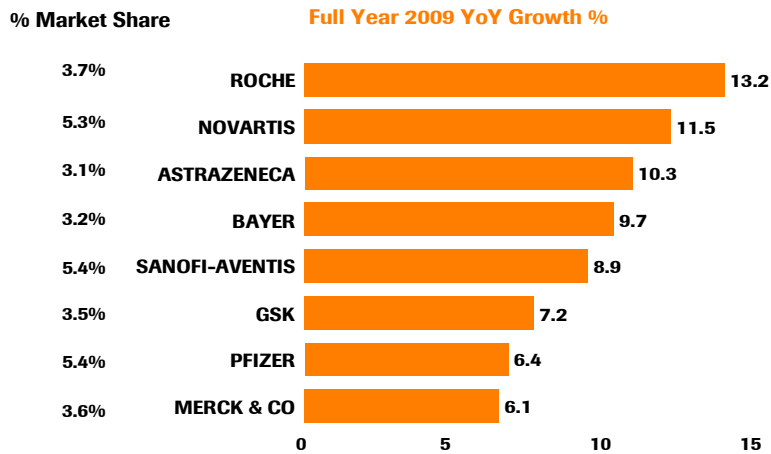
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Emerging markets also reward innovation

Roche has the leading growth rate in emerging markets

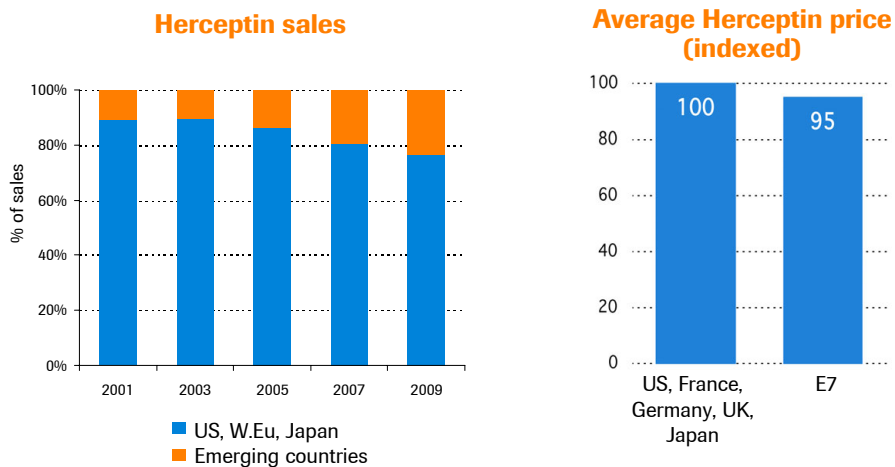


Source: IMS Health MIDAS FY 2009 US\$ LC Roche International Regions: Asia Pac, CEMAI, Lat AM (based on Roche subscription)

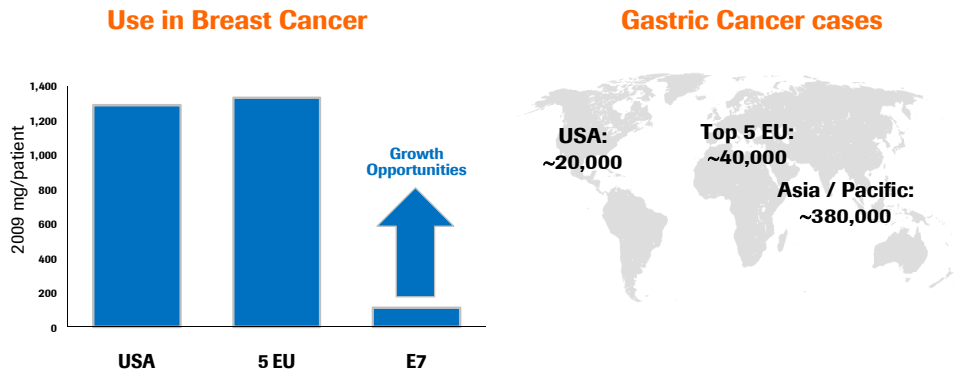


Emerging markets also reward innovation

Increased sales contribution from emerging markets



Significant growth potential in emerging markets *Herceptin example*

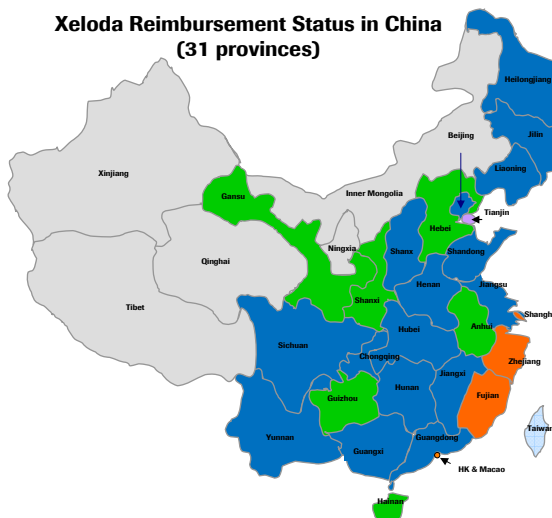


E7: Brazil, Russia India, China, Mexico, South Korea & Turkey; Asia/Pacific: China, South Korea, Taiwan, Japan; HER2 rate in Asia/Pacific 16 to 27%; Source: 2010 BC incidence Cancer Mondial (Cancer Incidence in 5 continents Volume IX <http://www-depodb.iarc.fr/who/>); country specific registries Updated Feb 2010

Significant growth potential in emerging markets *Improving formulary access drives adoption*



Xeloda Reimbursement Status in China (31 provinces)



Xeloda reimbursement ratio:

- 60%~70%
- 70%~80%
- 80%~90%
- ≥90%

XELODA	2009 sales	Growth vs. '08
Roche Pharma	1184	6.4%
US	473	10.2%
China	99	23.2%
France	47	1.3%

Source: Office of National Social Insurance Centre, Q3 2009

Delivering sustainable profitable growth



Maximising & protecting our existing franchises

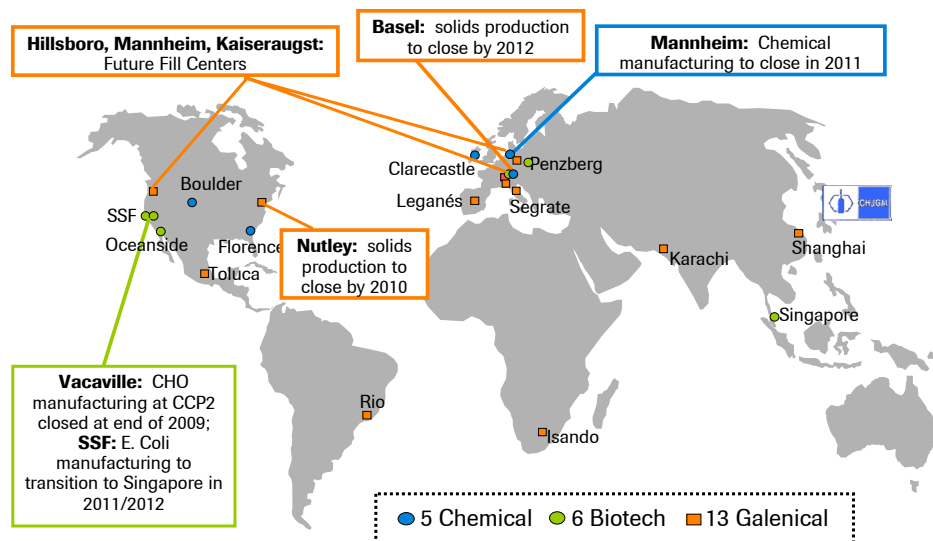
Entering new franchises with differentiated medicines

Expanding in the emerging markets with focus on E7

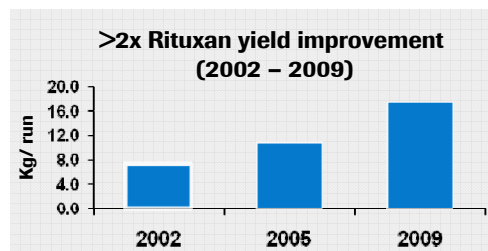
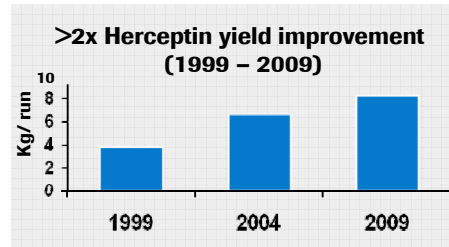
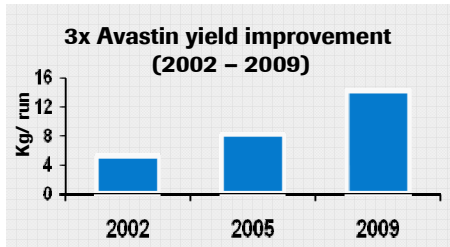
Improving our efficiency

Reducing late stage risk – setting the bar high for differentiation

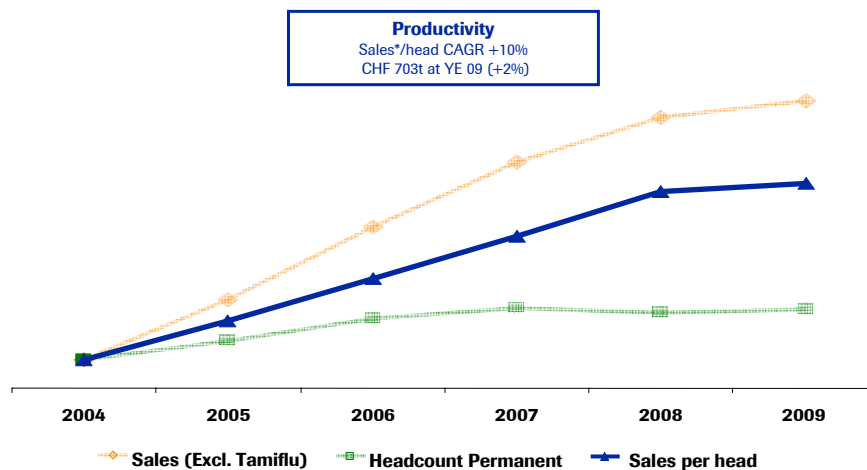
Constant improvements to manufacturing network



Sustained yield improvements



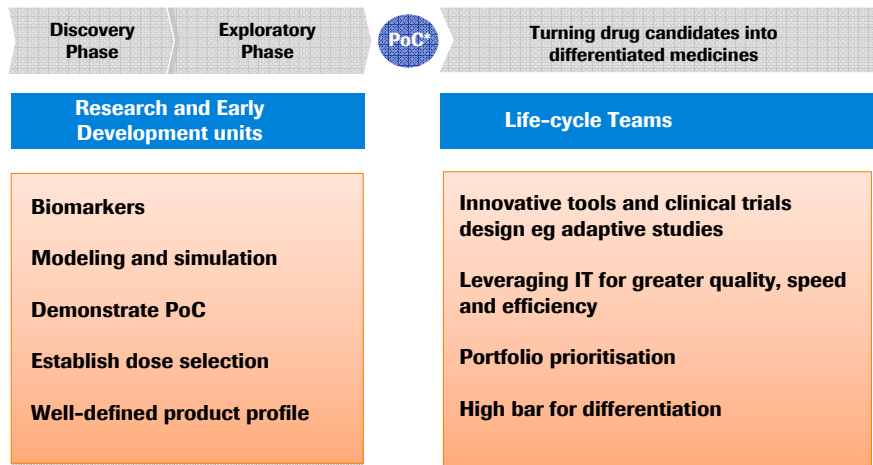
Improved commercial productivity



* Sales excluding Tamiflu
CAGR: compound annual growth rate (2004-2009)
Financial data & growth rates @A08 fx

Our R&D model

Innovation combined with speed and efficiency



* Proof of Concept

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10 NMEs in ongoing or planned late-stage studies

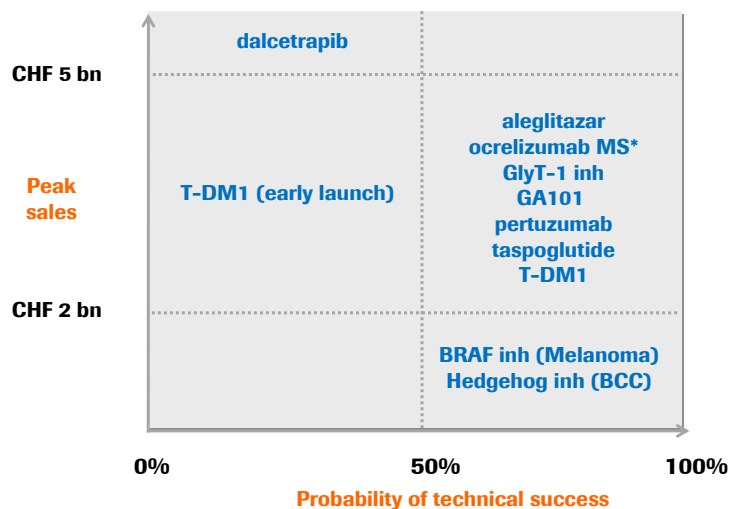


DBA	Molecule	Indication	Status	Innovation
Oncology	pertuzumab	1L HER2+ mBC	Phase III	First in class
	T-DM1	2L HER2+ mBC	Phase III	First in class
	GA101	Front-line CLL	Phase III	Best in class
	BRAF inh	1L malignant melanoma	Phase III	First in class
	Hedgehog Inh	Advanced basal cell carcinoma	Pivotal Phase II	First in class
Metabolism	taspoglutide	Type 2 diabetes	Phase III	Best in class
	dalcetrapib	Dyslipidemia, CV high risk	Phase III	First in class
	aleglitazar	Type 2 diabetes, CV high risk	Phase III	Best in class
CNS	GlyT1 inh	Negative symptoms of schizophrenia	Phase III	First in class
	ocrelizumab	RRMS	Phase II *	Best in class

* Phase III go / no go decision in 2010

Strong late-stage portfolio of NMEs

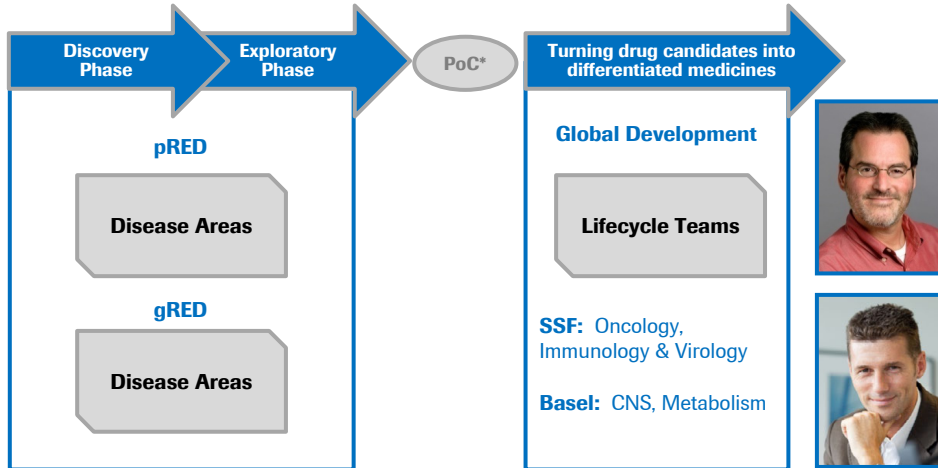
Limited risk due to rigorous proof of concept studies



* Phase III "go/no go" decision pending



Portfolio decisions focused on advancing important new therapies to address unmet medical needs



pRED: Pharma Research and Early Development
gRED: Genentech Research and Early Development

* Proof of Concept

