

A laboratory setting with a beaker of liquid on a scale. The background is a blurred laboratory environment with various glassware and equipment. The beaker in the foreground is on a scale, and the liquid inside is clear. The text 'Medivir' is overlaid on the right side of the image.

Medivir

A specialty pharmaceutical company focused on infectious diseases

Frukostpresentation 21 mars på IVA

Presenting team

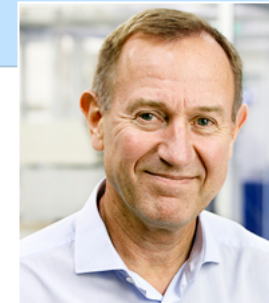
Charlotte Edenius
VP R&D Projects



Rein Piir
CFO / IR



Bertil Samuelsson
CSO



Flying Start to 2011

Recent news flow highlights

- Dec-10 Private placement of SEK 280m (EUR 30m)
- Feb-11 Phase 1a start with TMC649128 HCV/POL
- Feb-11 Joint venture with Janssen Pharmaceutica on Dengue Fever
- Feb-11 Global Phase 3 studies start with TMC435 in treatment naïve patients
- Feb-11 Global Phase 3 study starts with TMC435 in treatment experienced relapser patients
- Feb-11 Japanese Phase 3 studies start with TMC435 in treatment naïve and in treatment experienced patients
- Feb-11 C205 (PILLAR) Interim SVR24 data in treatment naïve patients
- Mar-11 Launch of Xerese™ in US

Key Innovation and Commercialisation at Medivir



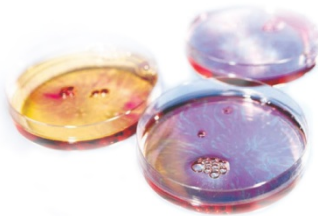
TMC 435 - Potentially best in class hepatitis C drug

- Strong safety profile – no adverse events over SoC in P2b
- Excellent antiviral activity in P2b PILLAR and ASPIRE studies
- High convenience – one pill, once daily, no food interactions
- Global Phase 3 trials started recently



Xerclear® / Xerese™ - in global launch phase 2011

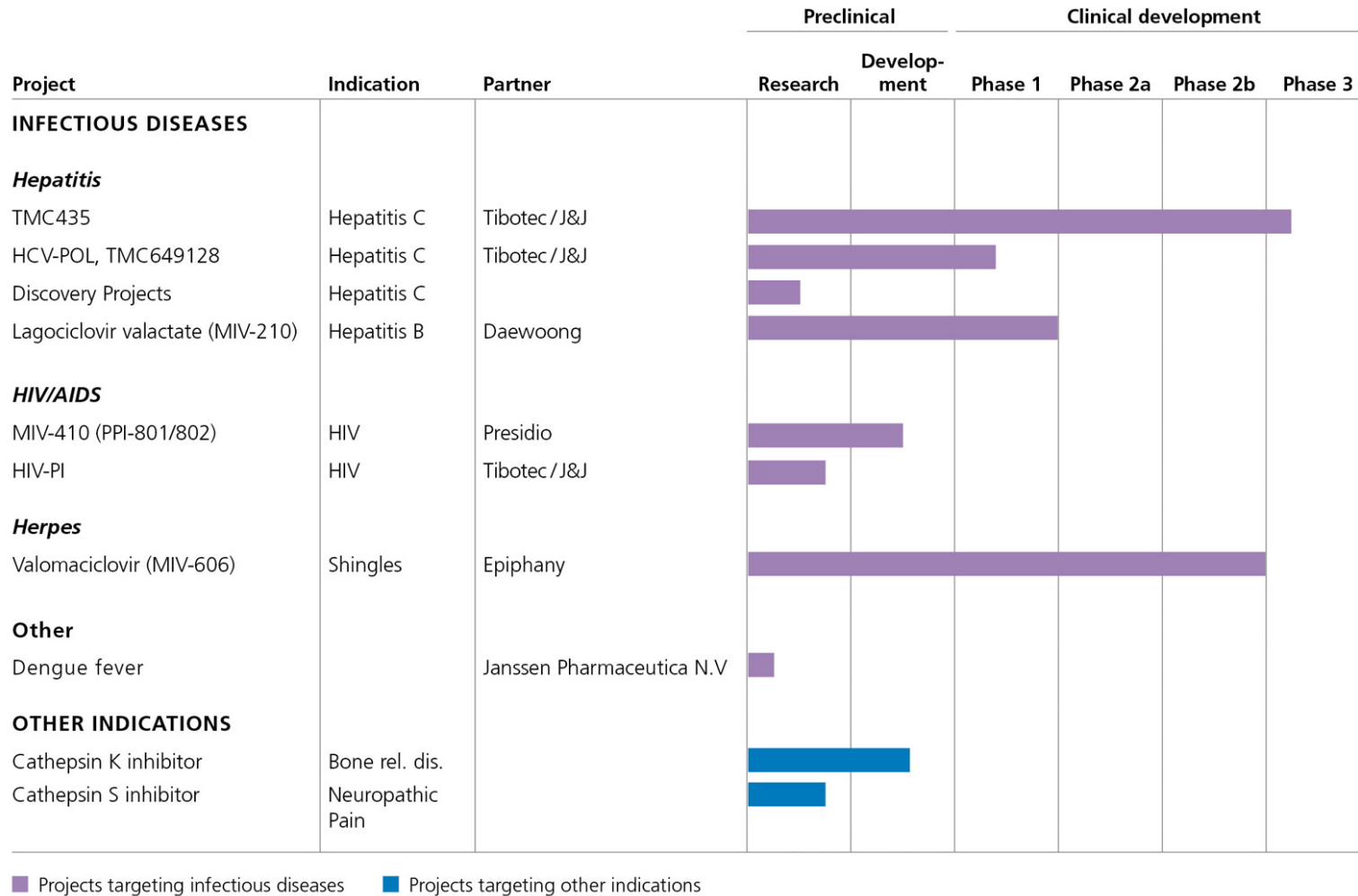
- First step towards becoming a profitable research-based pharmaceutical company
- Differentiated product profile - unique indication text
- Significant blue-chip marketing partners.



Strong Pipeline in development

- A strong pipeline of innovative infectious disease drug candidates in development with leading pharma partners
- World class expertise in polymerase and protease drug targets and drug development

Strong Pipeline with Multiple Paths to Value Creation





Key programmes in our early stag pipeline

Cathepsin K inhibitors for bone disorders – MIV-710/711

Creating value for shareholders by developing products further under own management

Disease and market

- This class of inhibitors intervene in disease states where there is excessive bone loss, e.g. osteoporosis, osteoarthritis and metastatic bone disease
- Estimated combined global market opportunity in excess of USD 12 billion

MIV-710 and MIV-711

- Cathepsin K inhibitor program
- Maintain the beneficial bone formation, in contrast to other anti-resorptives
- Furnish potent and long duration of activity
- A low once daily human efficacious dose at 50 mg QD estimated
- Strong IP position

Upcoming events in 2011

- Two Candidate Drugs selected, CD 1(MIV-710) and CD2 (MIV-711), which are progressing in preclinical development studies
- Start of phase 1 clinical trials for MIV-711 expected in Q3 2011

Dengue Fever Joint Venture with Janssen Pharmaceuticals

In February 2011 Medivir signed a co-development collaboration with Janssen Pharmaceuticals N.V. focused on dengue virus

- Strengthens Medivir's presence in infectious diseases
- Utilises strong know-how in the discovery of protease inhibitor drugs
- Approach focussed on inhibition of the dengue NS3 protease involved in viral replication

Commercial strategy

- Both parties are contributing 50:50 resources to the research program
- Increased potential upside from co-development deal

Market opportunity

- Dengue virus infection is a major problem in subtropical regions where the incidence has increased 30-fold over the last 50 years
- Up to 50 million infections occur annually in more than 100 endemic countries and the annual death rate from dengue infection is approximately 30,000
- This growing prevalence has not been met by any significant advances in treatment¹

¹ World Health Organisation, Fact sheet N°117, March 2009.



Our hepatitis C franchise

Partnered and in-house product portfolio

TMC435 – The Leading Next Generation Protease Inhibitor



- **Strong safety profile:** no adverse events over SoC in the Phase 2b PILLAR and ASPIRE studies

- **Excellent anti-viral efficacy** shown in Phase 2b PILLAR and ASPIRE studies

- **Convenient:** one pill and once daily, no food interactions

Hepatitis C - A blockbuster potential market

The Hepatitis C Market

- Globally ~180 million (3-4% of world population) infected with hepatitis C virus, of which 80% develop chronic disease
- The difficult to treat genotype 1 (G1a/b) account for ~70% of the HCV population
 - Sustained viral response (SVR) in G1 patients is very low, 42-48% on PegIFN α /RBV, SoC
- Approximately 12 million HCV infected in the US, Europe and Japan
 - Prevalence in JPN ~1.9 million with ~55% being diagnosed (~25% worldwide)
 - Health care burden in the US ~ 5 BUSD / year

Market Value

- Estimated market value of over USD 10 billion in 2015 and increasing
- Treatment-experienced patients, currently ~ 0.5 million, comprise ~half of the market value

TMC 435 potential

- Analysts estimate TMC435 annual peak sales of 2-4 BUSD

HCV Clinical Pipeline

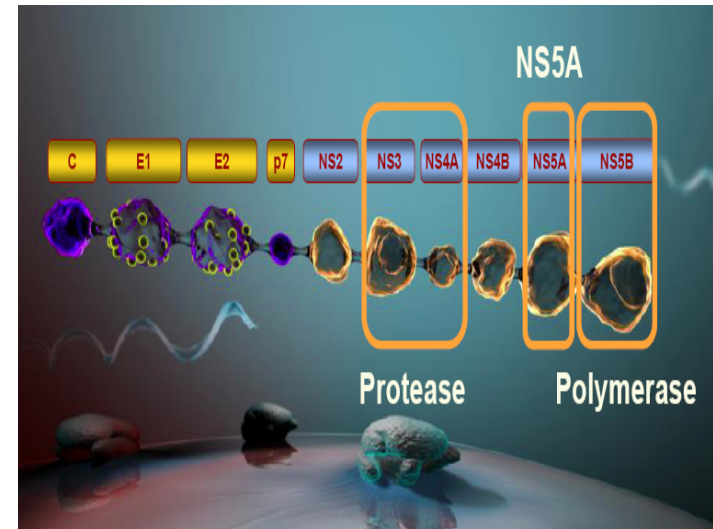
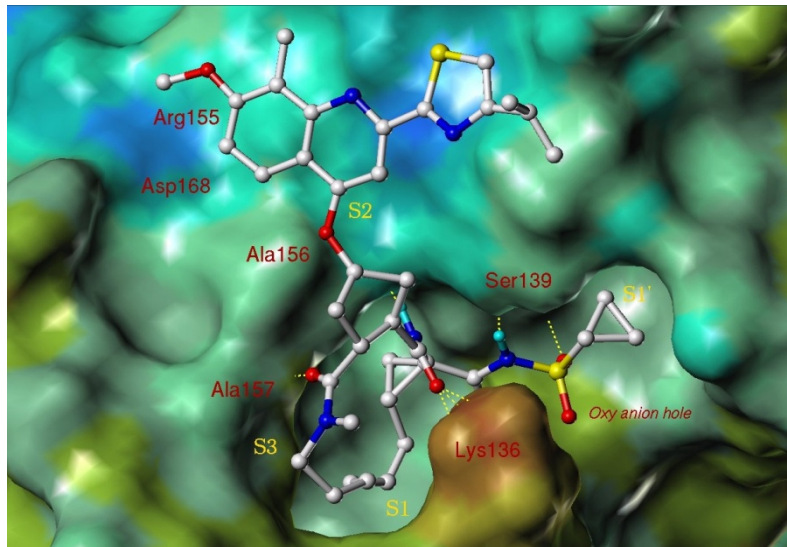


TMC435 – major commercial opportunity

- EUR 80.5 million deal value
 - EUR 30 million outstanding
- Medivir retain Nordic rights
 - Prevalence of chronic HCV infected ~115,000
 - Current annual treatment rates ~ 3,150

TMC435 – summary status

- Potent HCV NS3/4A protease inhibitor
- Backbone of future DAA combination therapies
 - Data expected 2011/12
- Long patent life
 - IP extending to 2026 and 2028
- Global Phase 3 trials ongoing
- Regulatory filings expected in 2013



HCV Clinical Pipeline

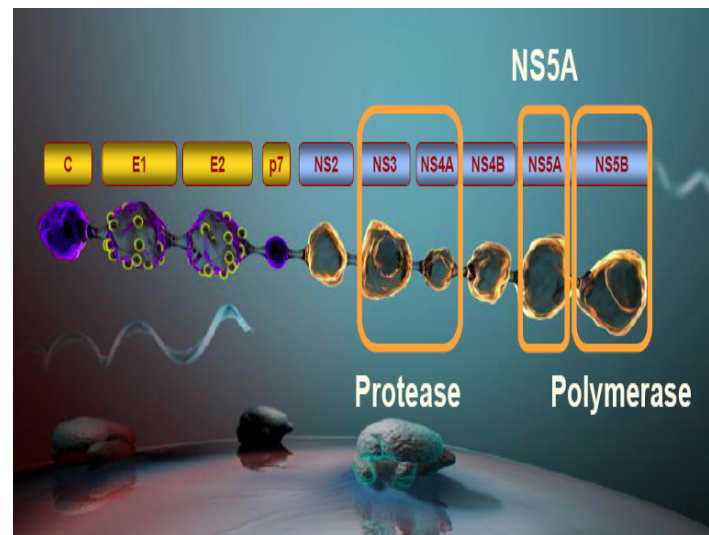


TMC649 (HCV Pol) - major commercial opportunity

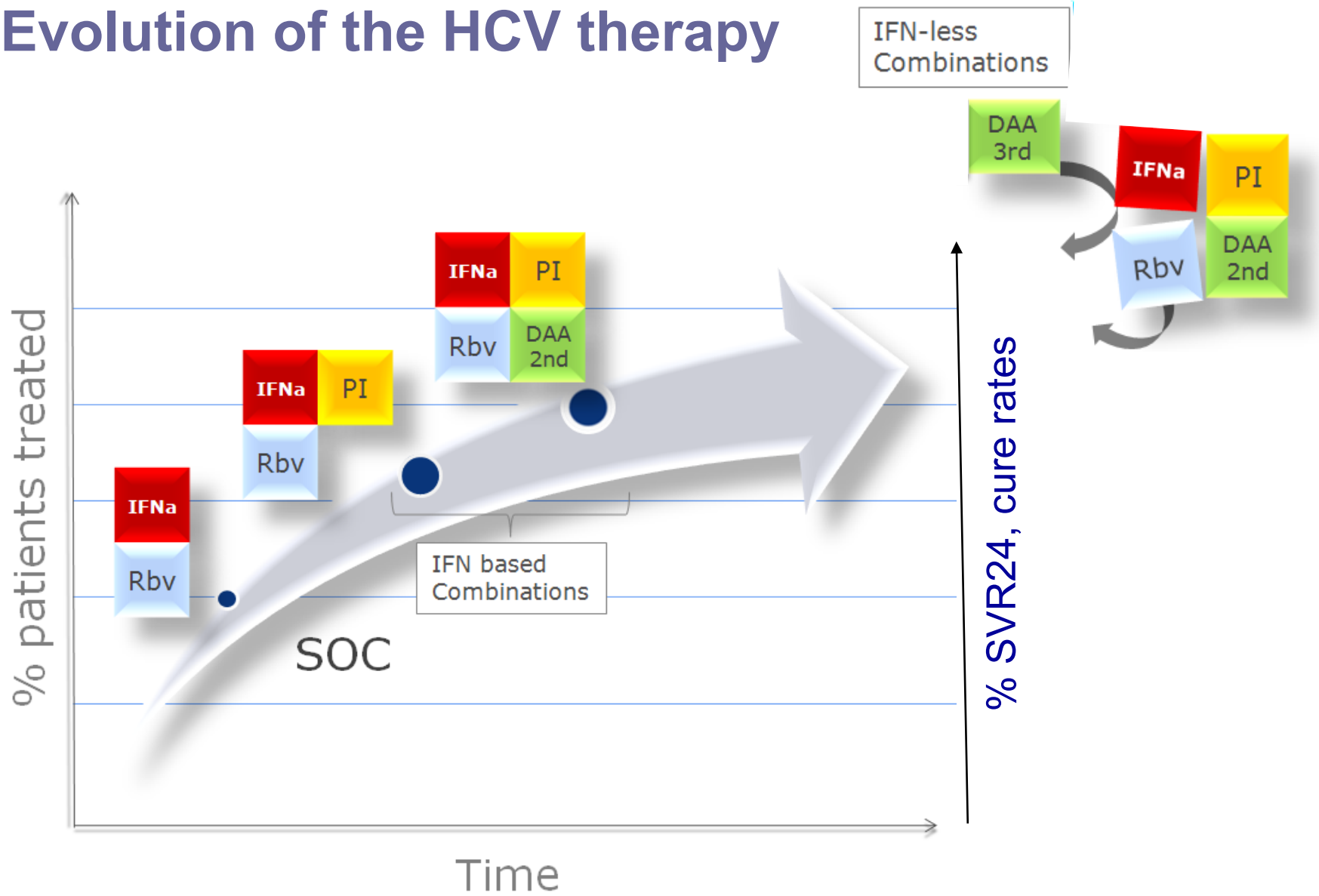
- EUR 147 million deal value
 - EUR 95 million outstanding
- Medivir retain Nordics rights
 - Prevalence of chronic HCV infected ~115,000
 - Current treatment rates ~ 3,150

TMC649 (HCV Pol) – summary status

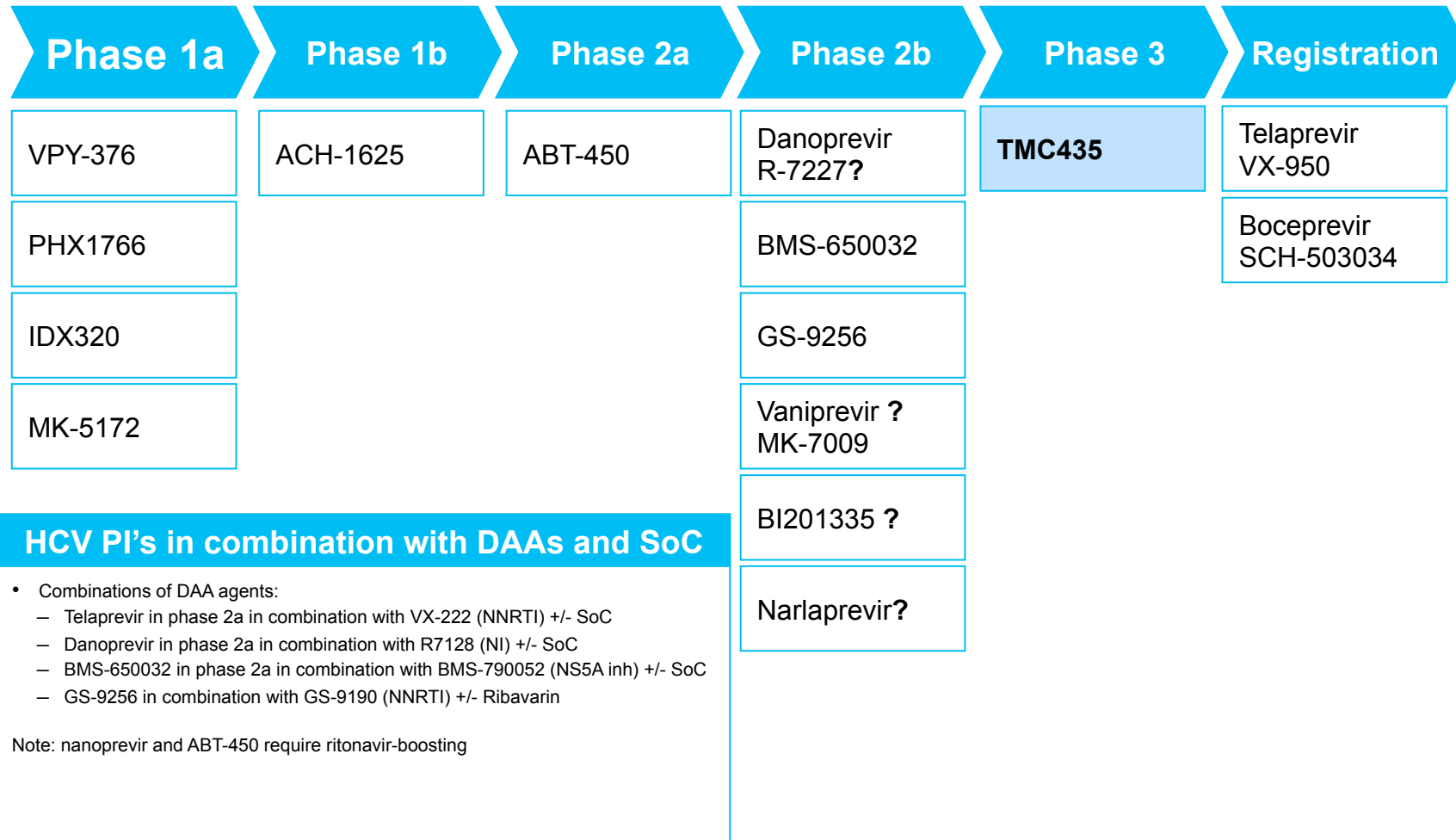
- Nucleoside/tide NS5B inhibitor
- An ideal DAA agent for future TMC435 combination regimens
- High barrier to resistance and broad genotype coverage
- Long patent life
 - IP extending to 2027 and 2029
- Phase 1 trails ongoing



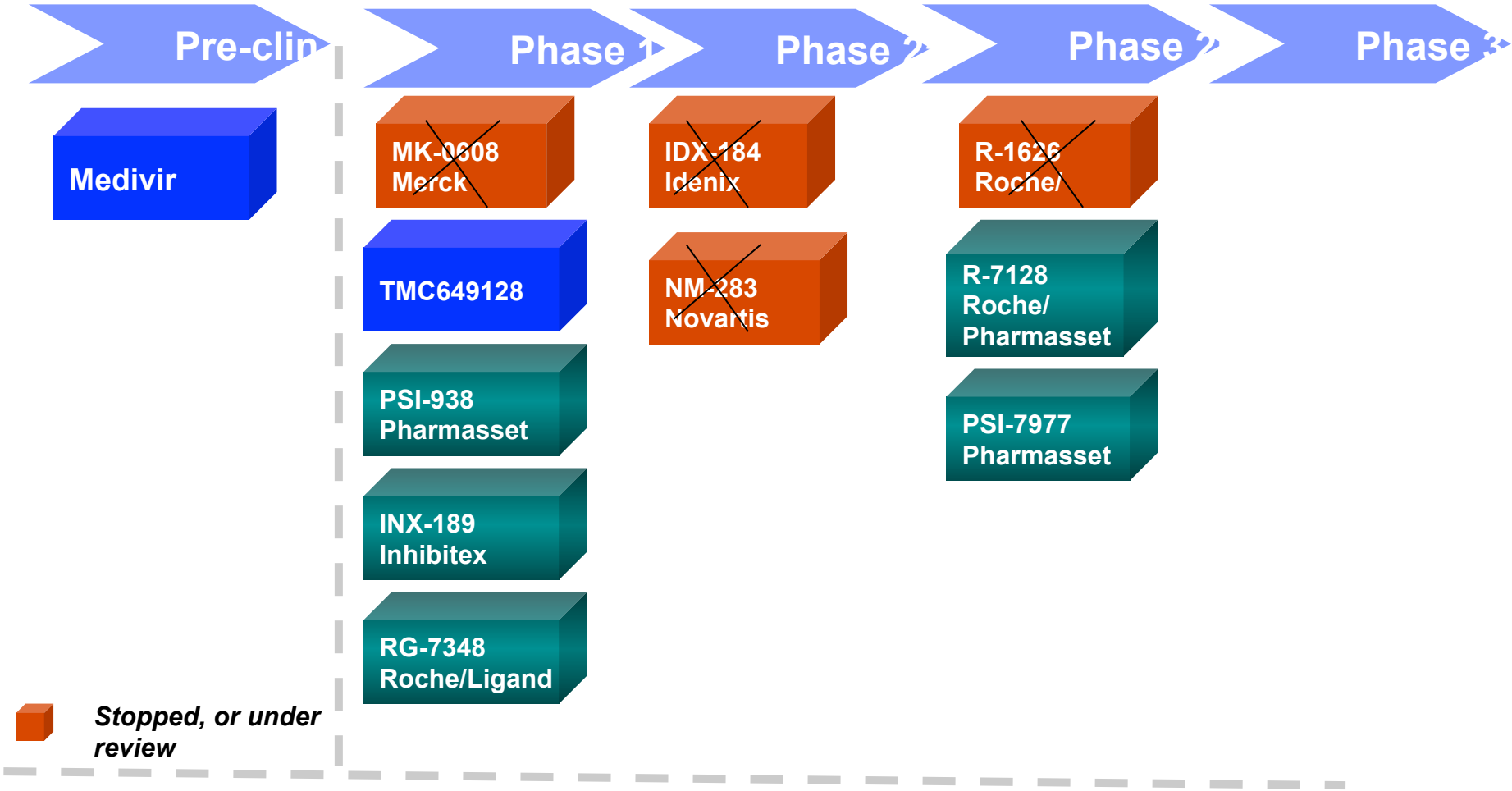
Evolution of the HCV therapy



Hepatitis C PI – the competitive landscape



HCV Nucleosides & Nucleotides – Competitive landscape



TMC435 Late Stage Clinical Trial Programme

Follow Up Phase

Phase 2b studies

PILLAR (C205) – 386
genotype-1 infected
treatment-naïve patients

DRAGON (C215) – 92
genotype-1 infected
treatment-naïve patients

ASPIRE (C206) – 462
genotype-1 infected
treatment-experienced
patients

Recently Initiated

Phase 3 studies

QUEST 1 (C208) 375
genotype-1 infected
treatment-naïve patients

QUEST 2 (C216) 375
genotype-1 infected
treatment-naïve patients

PROMISE (C3007) 375
genotype-1 infected
relapsed patients

Phase 3 studies started in Japan

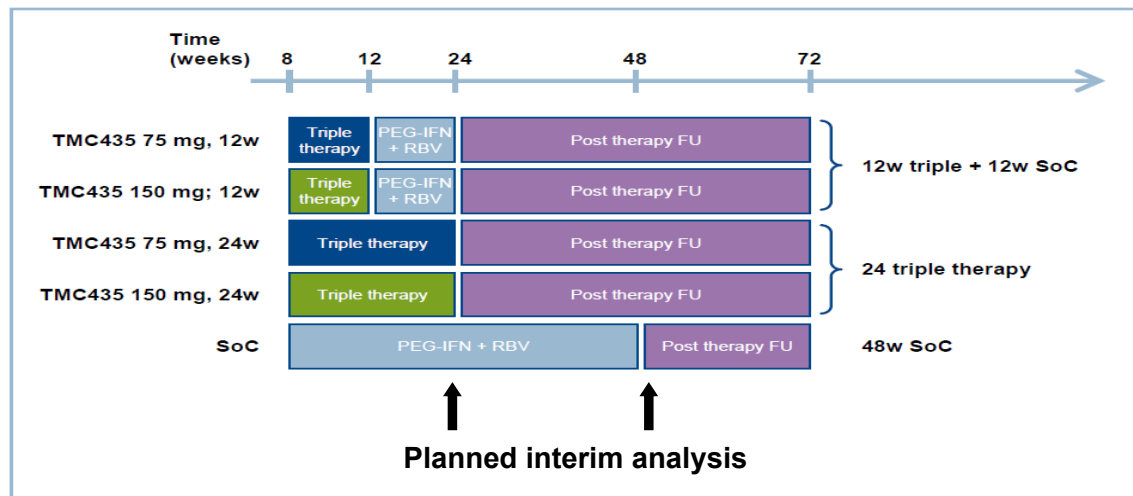
both in naïve and
treatment experienced
genotype-1 infected
patients

For additional information on inclusion and exclusion criteria for these studies, please see www.clinicaltrials.gov

TMC435 Phase 2b: study design & findings - 48 week interim analysis

PILLAR (C205)

- TMC435-C205 is a global phase 2b study in 386 genotype-1 treatment-naïve patients
- Once daily (*q.d.*), 75 mg and 150 mg, of TMC435 + SoC:
 - 12-week triple therapy followed by SoC alone up to week 24
 - 24-week triple therapy
- Response-guided treatment duration in TMC435 arms
 - End treatment at Week 24, if
 - o HCV RNA <25 IU/mL detectable or undetectable at Week 4, *and*
 - o HCV RNA <25 IU/mL undetectable at Weeks 12, 16, and 20
 - All other patients continued Peg/RBV for up to 48 weeks



PILLAR C205 week 48 interim analysis – safety and efficacy

1. Phase 2b 48-week (SVR24) Interim Results of TMC435 in Treatment-naïve Patients Chronically Infected with Genotype-1 Hepatitis C Virus
2. In the TMC435 treatment groups 83% of patients were able to stop all therapy at week 24
3. Potent and consistent antiviral efficacy was demonstrated with SVR24 rates of up to 84%
4. No clinically relevant difference in safety and tolerability between TMC435 and placebo groups

Sustained Virological Response 4 and 24 Weeks after Planned End of Treatment (EoT);					
% (n/N)	TMC435 12PR24 75mg q.d. N=78	TMC435 24PR24 75mg q.d. N=75	TMC435 12PR24 150mg q.d. N=77	TMC435 24PR24 150mg q.d. N=79	Placebo N=77
SVR4	87.2 (68/78)	86.5 (64/74)	84.9 (62/73)	88.5 (69/78)	71.2 (42/59)
SVR24	83.6 (61/73)	76.1 (51/67)	83.1 (59/71)	84.4 (65/77)	N/A

* < 25 log₁₀ IU/mL undetectable

q.d.: once daily, PR: pegIFNalpha-2A and ribavirin,

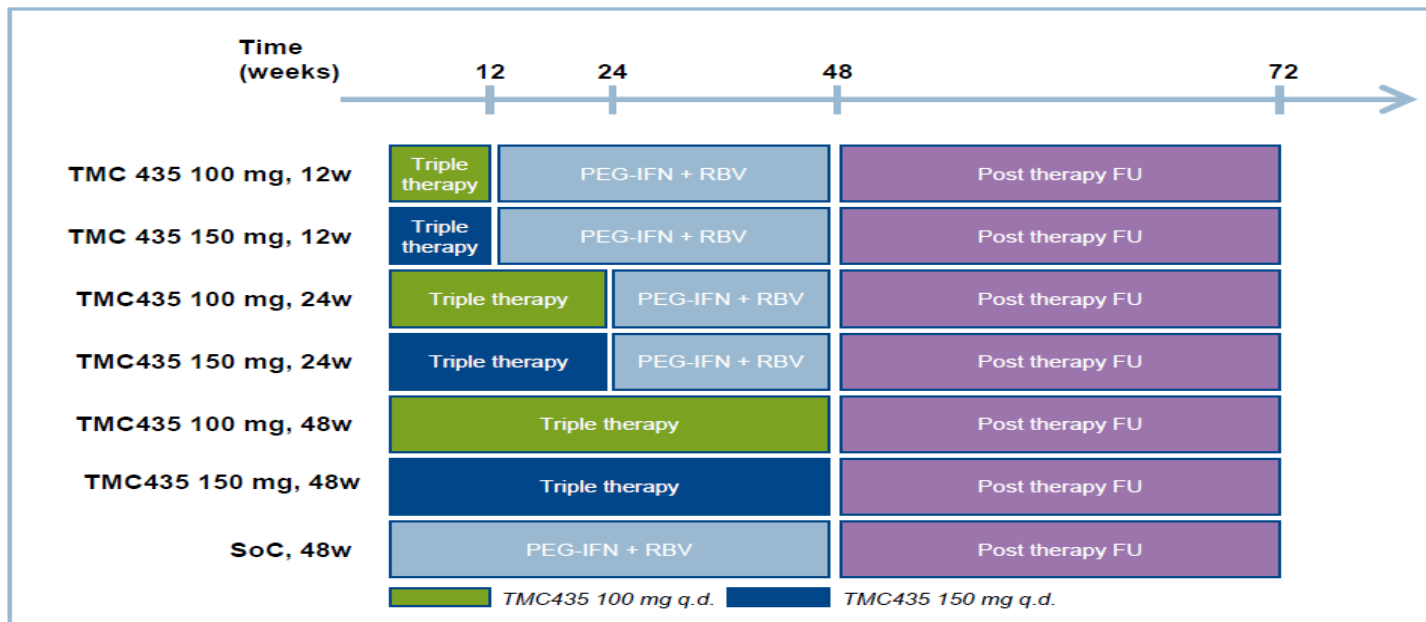
SVR4 and SVR24: patients with undetectable HCV RNA 4 and 24 weeks after planned EoT, respectively.

N/A: Patients in the control arm continue SoC until Week 48 and SVR24 data was not available

TMC 435 Phase 2b study design

ASPIRE (C206)

- TMC435-C206 is a global phase 2b study in 462 genotype-1 treatment-experienced patients
- Once daily (*q.d.*), 100 mg and 150 mg, of TMC435 + SoC:
 - 12-week triple therapy followed by 36 weeks of SoC
 - 24-week triple therapy followed by 24 weeks of SoC
 - 48-week triple therapy



Antiviral efficacy in TMC435 ASPIRE C206 - 24-week interim data

	TMC12/PR48 100 mg (N=66)	TMC24/PR48 100 mg (N=65)	TMC48/PR48 100 mg (N=66)	TMC12/PR48 150 mg (N=66)	TMC24/PR48 150 mg (N=68)	TMC48/ PR48 150 mg (N=65)	Pbo48/PR48 (N=66)
HCV RNA <25 IU/mL undetectable, % (n/N)							
Overall population Week 4 (RVR)	67.7 (44/65) ***	59.4 (38/64) ***	53.8 (35/65) ***	63.1 (41/65) ***	70.8 (46/65) ***	66.2 (43/65) ***	1.5 (1/65)
Prior null responder	33.3 (5/15)	50.0 (8/16)	25.0 (4/16)	35.3 (6/17)	41.2 (7/17)	41.2 (7/17)	0.0 (0/16)
Prior partial responder	65.2 (15/23)	40.9 (9/22)	60.9 (14/23)	65.2 (15/23)	69.6 (16/23)	68.2 (15/22)	0.0 (0/23)
Prior relapser	88.9 (24/27)	80.8 (21/26)	65.4 (17/26)	80.0 (20/25)	92.0 (23/25)	80.8 (21/26)	3.8 (1/26)
Overall population Week 24	87.1 (54/62) ***	84.5 (49/58) ***	85.2 (52/61) ***	85.7 (54/63) ***	90.8 (59/65) ***	90.3 (56/62) ***	51.9 (28/54)
Prior null responder	71.4 (10/14)	83.3 (10/12)	68.8 (11/16)	70.6 (12/17)	81.3 (13/16)	93.3 (14/15)	44.4 (4/9)
Prior partial responder	86.4 (19/22)	80.0 (16/20)	85.7 (18/21)	86.4 (19/22)	90.9 (20/22)	86.4 (19/22)	19.0 (4/21)
Prior relapser	96.2 (25/26)	88.5 (23/26)	95.8 (23/24)	95.8 (23/24)	96.3 (26/27)	92.0 (23/25)	83.3 (20/24)
***Statistically significant difference versus placebo, p<0.001							

- The TMC435 treatment arms demonstrate high response rates
- The antiviral efficacy was enhanced in all patient groups through week 12 and 24
- Notably, the null responder group demonstrated significant response rates

Excellent antiviral activity

Safety and Tolerability in TMC435 ASPIRE C206

24-week interim data

- TMC435 was generally safe and well tolerated consistent with the previously reported phase 2b PILLAR C205 study
- Significant decreases in transaminases (ALT and AST) were observed in all TMC435 treatment groups
- The two most frequently reported AEs were fatigue and headache, with comparable results shown in the placebo group

%	All TMC435 N = 396	Placebo N = 66
Fatigue	41	42
Headache	33	33

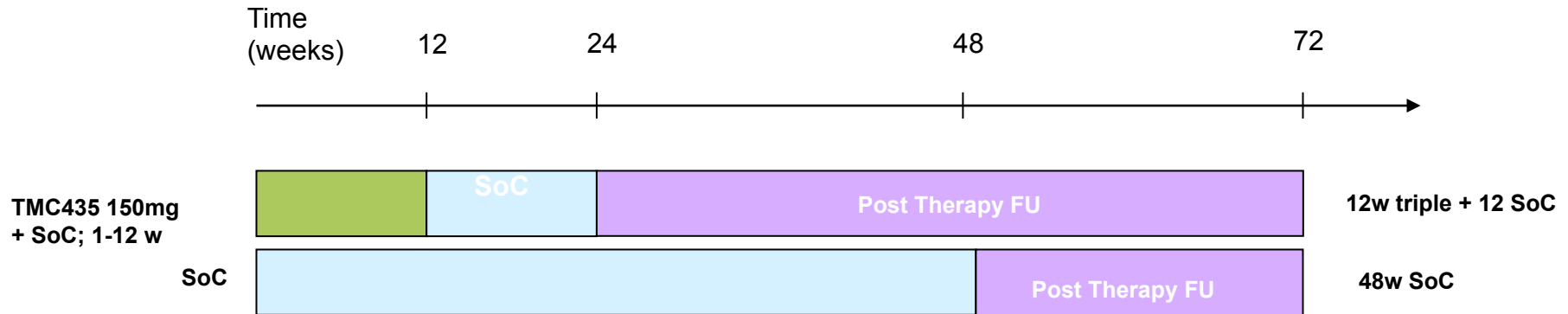
TMC435 was safe and well tolerated

Phase 3 trial design: Quest-1, Quest-2* and PROMISE

Approximately 1125 patients in total, 375 in each study

Response-guided treatment duration in TMC435 arms

- End treatment at Week 24 if predefined stop criteria are met
- All other patients continue on Peg/RBV for up to 48 weeks



•Quest-1, Quest-2:

- will evaluate a single once-daily oral tablet of TMC435 (150 mg) versus placebo in treatment naïve HCV patients

•PROMISE:

- will evaluate a single once-daily oral tablet of TMC435 (150 mg) versus placebo in HCV patients who experienced viral relapse after previous interferon-based therapy

Quest 2* – patients in this trial will either receive Pegasys® and Copegus® or PegIntron® and Rebetol® as part of their treatment



Conclusion

Upcoming News Flow



Expected key newsflow highlights during 2011

- Apr-11 EASL - additional data on TMC435
- Q211 TMC435, 48-week interim data from the phase 2b C206 (ASPIRE) trial in treatment-experienced patients
- Q3-11 C205 (PILLAR) full SVR24 data
- Q3-11 Start of phase 1 trials with MIV-711
- H2-11 Start of phase 3 trials with TMC435 in treatment-experienced non-responder patients
- H2-11 Phase 1a/1b results with TMC649
- Q4 AASLD – additional data on TMC435
- Q4-11 OTC launch of Xerclear® in Europe by GSK
- Q4-11 C206 (ASPIRE) SVR24 data