Building an industry





October 2006

Mårten Wigstøl Executive Chairman Nordiag ASA

Introduction



Mårten Wigstøl

| Executive Chairman Nordiag ASA | 2005 - |
|--------------------------------|--------|
| Executive Chairman Genpoint AS | 2005 - |

16 years management experience from the biotech industry

| • | CFO in Dynal Biotech (now Invitrogen) | 1990 - | 1998 |
|---|--|--------|------|
| • | Co-founder and CEO in GenoVision – (now Qiagen) | 1998 - | 2002 |
| | Managing Director Qiagen - transplantation diagnostic division | 2002 – | 2005 |
| | Professional board member and investor | 2005 - | |

- Dynal was the <u>world leader</u> in preparing samples for biological analysis using magnetic beads
- GenoVision was a spin out of Dynal Biotech the first company with a commerical launch of a system for automated isolation of DNA using magnetic beads

A good model for building industry?



Destiny of my previous employers

- Dynal Biotech has been acquired by Invitrogen
- GenoVision has been acquired by Qiagen the Norwegian office is closed down 3 years after the deal was closed – technology is now transferred to Germany

What does this tell us?

- It is possible to build successful biotech companies in Norway and clusters builds success – magnetic beads is such a cluster
- To sell successes to other companies with fat vallets is not necessarily a good model for building biotech as an industry in Norway

Alternative routes?

- Dynal should have gone public in 1996 they had the chance both in Oslo and New York (Nasdaq)
- GenoVision was sold too early the products have been tremendously successful

 the company could have been public today

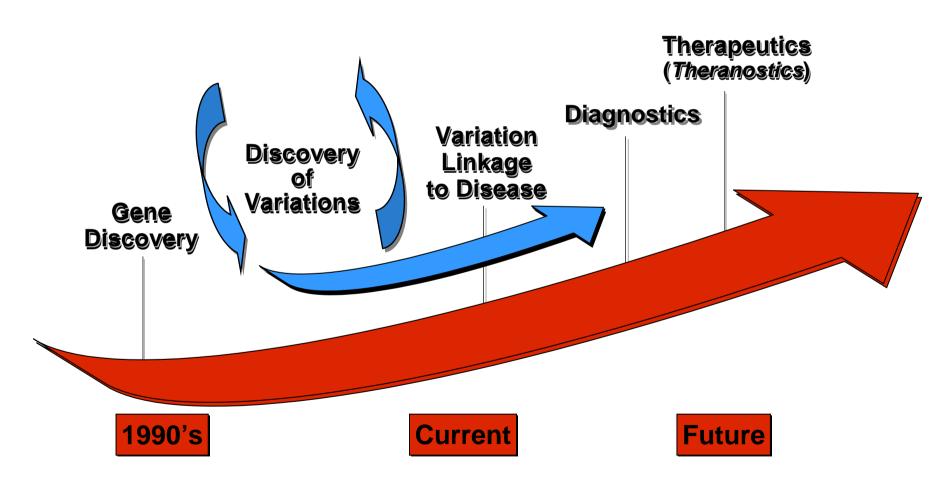
Nordiag – an early phase IPO



- The shareholders of Nordiag decided a different route than both Dynal and GenoVision
- Nordiag went public very early in its company lifecycle
- It is too early to draw conclusions whether this is the correct move or not – the company has still a lot prove
- Nordiag ploughed ground for other young biotech companies
- Investors recognized that going public on Oslo Stock Exchange is possible
- Nordiag has now an opportunity to grow through strategic moves in addition to organic growth.

Genomics Continuum





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Cancer: A highly heterogenous disease

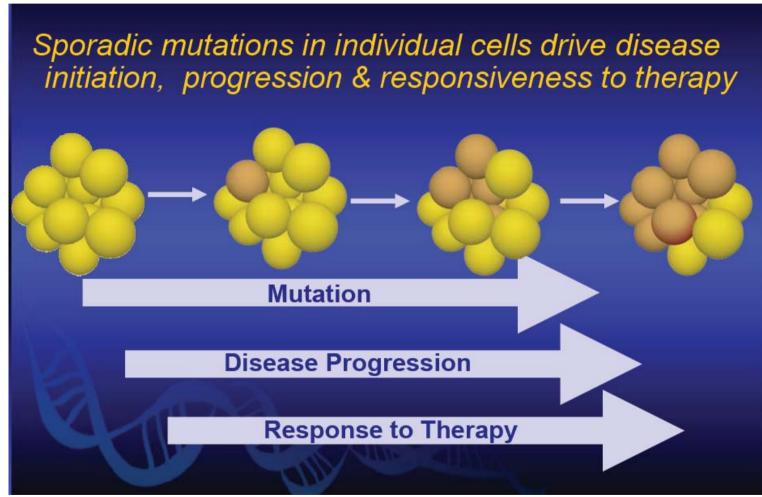




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Cancer: A progressive genetic disorder

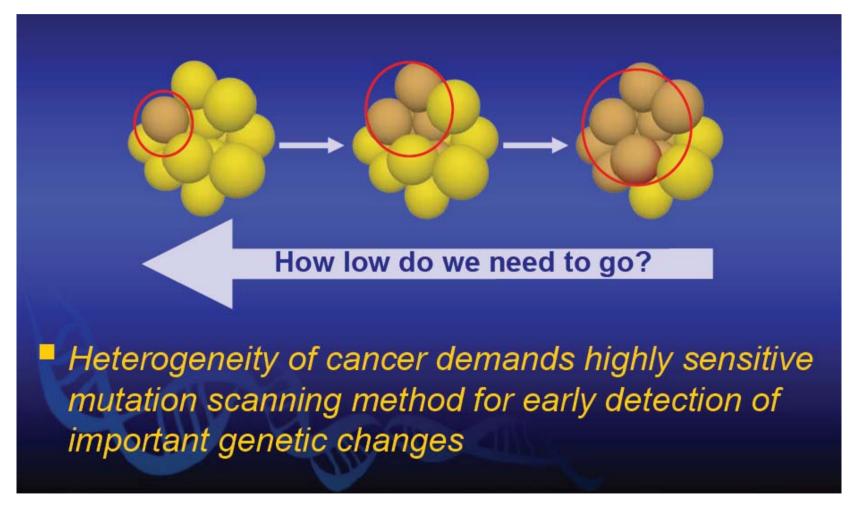




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Early mutation detection can save lifes





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Briefly about NorDiag Making a difference in cancer diagnostics



Aiming for market leadership in genetic cancer diagnostics

Strong IP

- Own patents, in-licensed markers
- Strong technology basis in DNA isolation and mutation detection

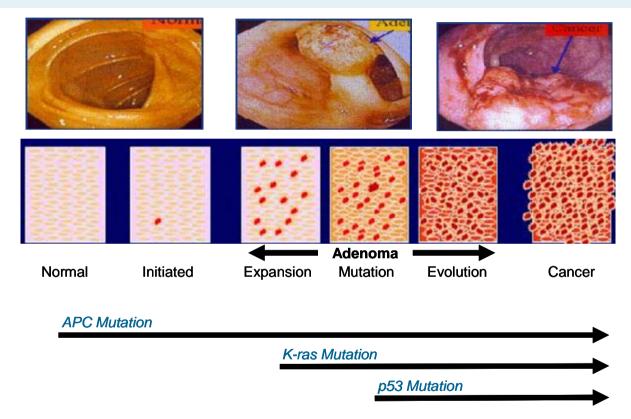
Developing a strong product portfolio

- Launched GenefecTM for colorectal cancer diagnostics
- Developing new genetic test for colorectal cancer screening;
 ScreenfecTM
- Exploring opportunities in lung cancer and pancreatic cancer



Genefec[™] enables earlier detection





Adapted from: American Society of Clinical Oncology; Waun Ki Hong, Reuben Lotan

Briefly about NorDiag's business Colorectal cancer

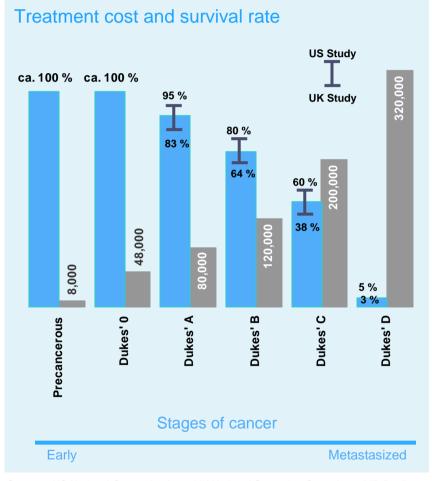


Colorectal cancer is a common disease

- Affects 1 in 20 persons
- Over 1 million new cases per year

Early detection is crucial

- Early treatment dramatically increases survival chances
- Early treatment substantially lowers treatment costs



Sources: US National Cancer Institute; UK National Screening Committee; MD Buyline

Product positioning for ScreenfecTM - differentiation

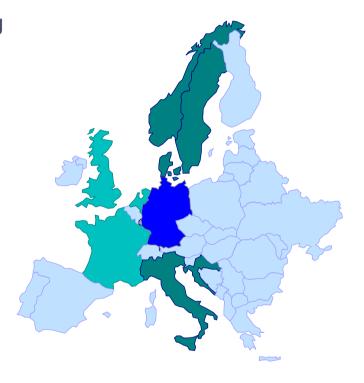


| Requirements | Current method - FOBT | Screenfec [™] targets |
|---------------------------|---|--|
| Performance | Positive predictive value for colorectal cancer of 12% | Sensitivity to colorectal cancer above 60% and specificity above 90% |
| Ease of sample collection | Dietary requirements and samples collected from three bowel movements | No dietary requirements, sample collected from one bowel movement |
| Automation/scalability | Easy to perform in high volumes | Simple and automatable on off- the shelf instrumentation |
| Cost efficiency | Cheap but not cost effective | More expensive than FOBT but more cost effective |
| | High number of follow-up tests (colonoscopies) | High sensitivity and specificity |

Screening of populations is driving the market



- Several countries are considering public screening for colorectal cancer
 - UK: screening for all aged 60-69 years (2006)
 - France: 22 screening pilots running
 - Similar measures evaluated elsewhere
 - USA recommends regular screening from age 50
- Market potential in western Europe
 - 100 million persons in relevant age group
 - Potential volume of 12 million tests per year



- Pilot study underway
- Screening starts 2006-07
- Colonoscopy screening

Outlook



- Development of Screenfec™ opens the large screening market
- Sensitivity improvement of Genefec[™] by adding new markers will make the position as a diagnostic test stronger
- Launch of Genefec[™] and Screenfec[™] in major new markets
- Test for lung cancer treatment being explored (personalized medicine)
- Developing a diagnostic test for early detection of pancreatic cancer
- Continued strengthening of the technology base
- Conversion from being a service provider to also supplying solutions (kits and reagents)
- Explores M&A opportunities to further strengthen the company

Success factors and pitfalls (general)



Start paralell processes

- Marketing & product positioning must start early before prototypes are completed
- Collaborate with the local medical expertise in the preparation of clinical documentation - be aware that clinical documentation might be needed in individual markets

Be open to acquire new and complementary technologies from external sources through licensing

- The not invented here syndrome could be the end of the beginning
- Patents do not always stand up freedom to operate is more important

Bring in experienced personnel with international experience

- Don't be afraid of hiring someone who is better than yourself
- Not all positions can be filled through internal recruitment trial and error management can be dangerous

Success factors and pitfalls (general)



Know your market

- What is driving the market
- Define your customers target market
- Listen to the market the customer is always right
- Use correct market potential (applicable market) for the product don't fool yourself

Product differentiation

- A successful product must be more than just a technological superb solution –
 other factors such a ease of use, cost efficiency could be just as important
- Make sure you have differentiation in >75% of the important factors

What is the competitive edge of a young biotech company

- It can do development faster and cheaper than the large diagnostic companies
- How does this fit with the often used excuse that investors must understand that it takes time and money to reach goals promised yesterday

Government contribution



Government

- Change the R&D funding system
- Grants to fund commercialization not only development
- Go for the winners/winning projects
- 100% funding?
- Equity participation operational loans?

SBIR funding in the US

- Phase 1: Everyone get this as long as they have a good business idea and can submit a well documented application – funding amount approximately USD 100'
- Phase 2: Only the successes from phase 1 get this funding amount approximately USD 500-700
- Funding is 100%

Research community



- Be nice to each other researcher can be very nasty with each other collaborate
- Listen to and respect the commercial expertise
 - Be open to starting the commercialization activities early in the process
 - Be open for launch before the system is 100% perfect 95% is often good enough
- Be aware of and avoid the not invented here syndrome
 - Arrogance has killed many biotechnology companies and research projects
 - Respect the capital being invested into projects

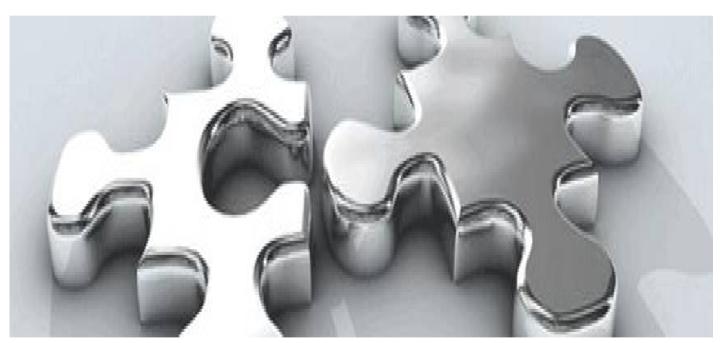
Medical community



- More open for collaborations with the industry your expertise is important in both product development, clinical documentation and a successful launch
- Understanding that the clinical documentation for a diagnostic test is not the same as for a pharmaceutical product
- Be more acceptable for DNA based methods yes they are more expensive but also often more accurate
- Be more forgiving Nordiag is given rough treatment from time to time in the medical doctors own magazine – sometimes deserved – sometimes not



BY THE END OF THE DAY – ALL PARTIES INVOLVED WILL BENEFIT FROM SUCCESSFUL PRODUCTS FROM NORDIAG OR OTHER NORWEGIAN PLAYERS INVOLVED IN DEVELOPING DIAGNOSTIC TESTS OR BIOSENSORS



WE NEED EACH OTHER IN ORDER TO MAKE SUCCESSES AND MAKE THE PIECES COME TOGETHER