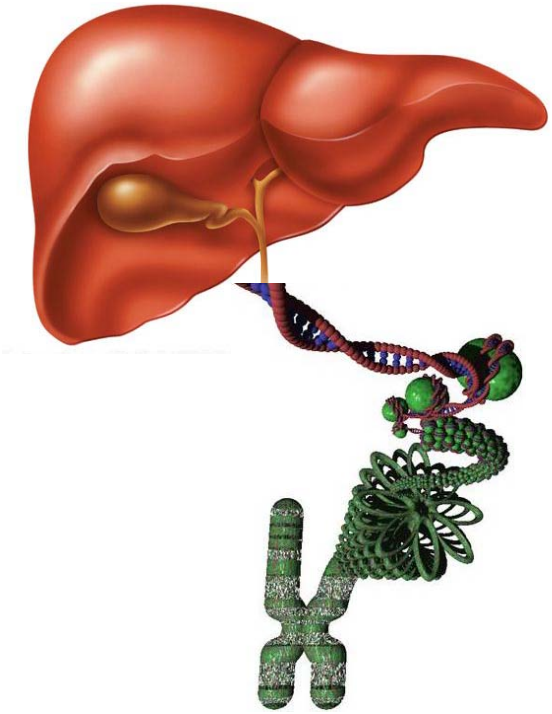


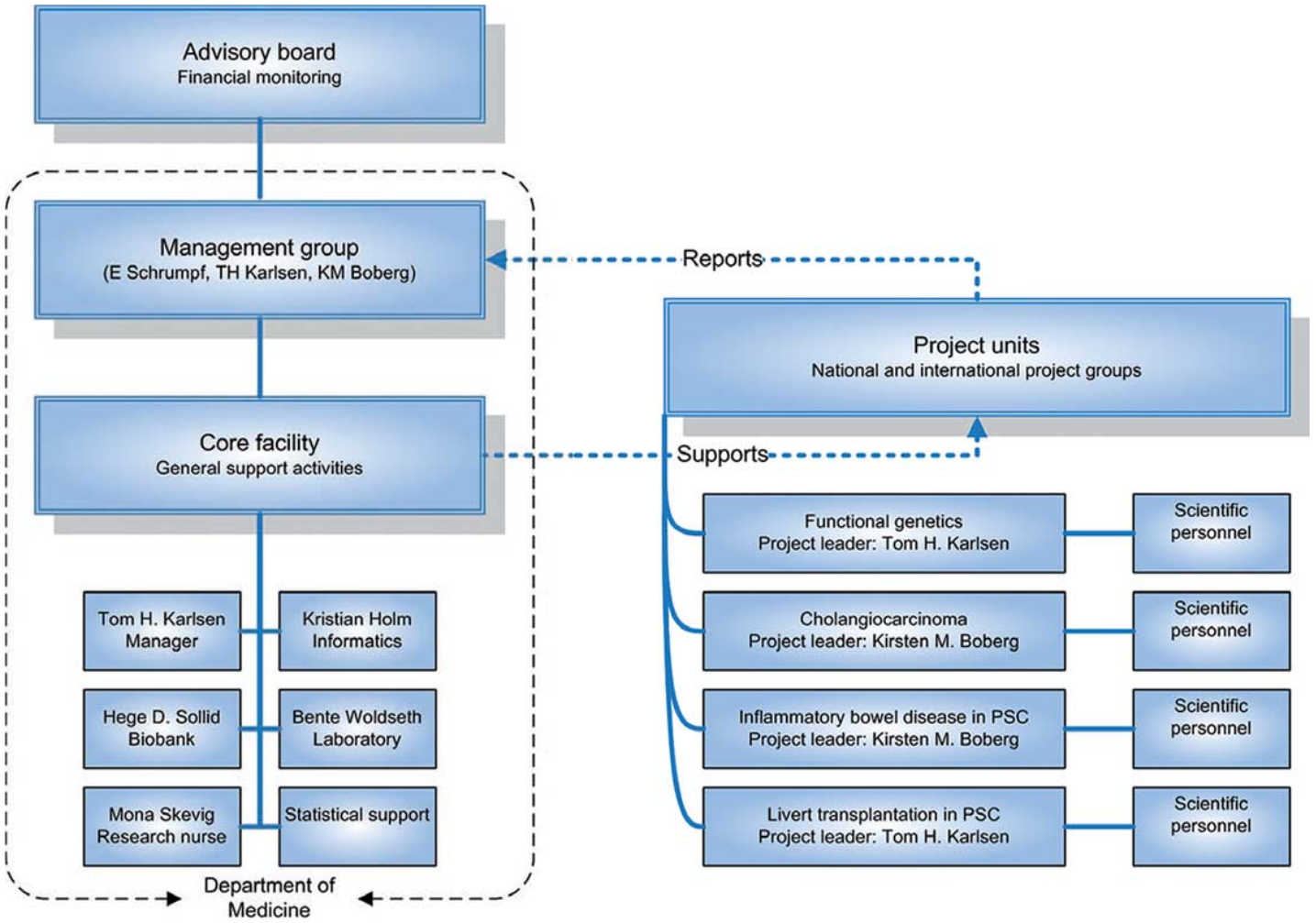
Future plans for the Norwegian PSC Research Center

- Dr. Trine Folseraas, Norwegian PSC Research Center,
Clinic for Specialized Medicine and Surgery
Oslo University Hospital, Rikshospitalet
Oslo, Norway

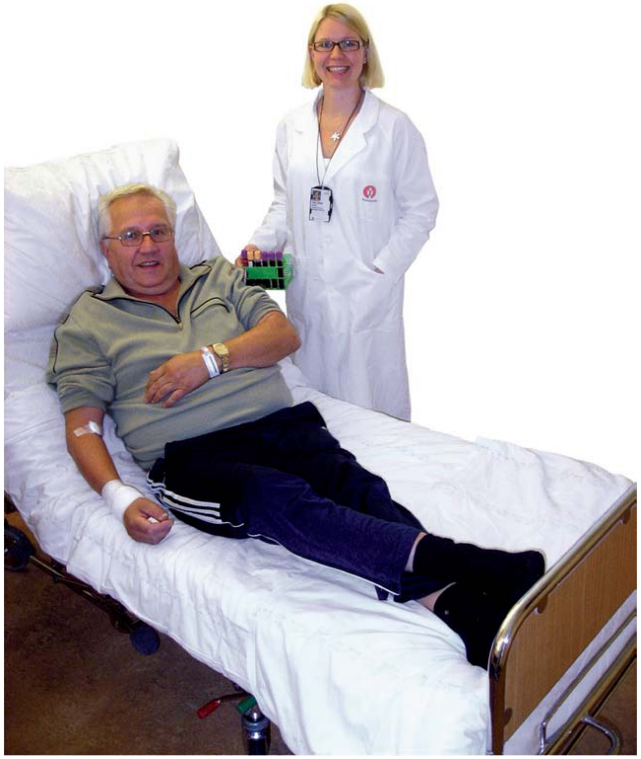
The Norwegian PSC research center
www.rikshospitalet.no/nopsc

The people

The organisation

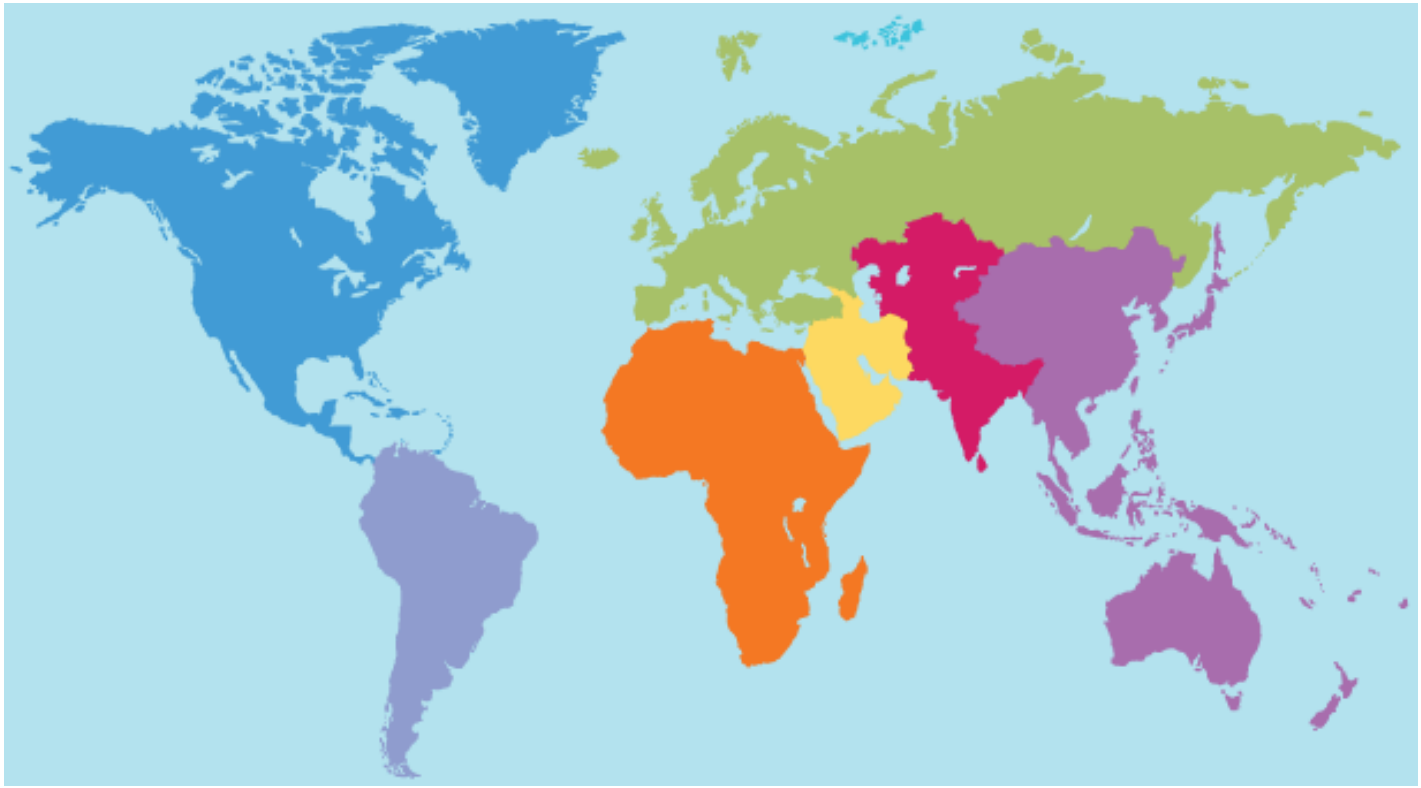


The NoPSC biobank



The NoPSC biobank

Network



International PSC Study Group meeting, Oslo, Norway 14th-15th of June 2010

Day 1

1300 Welcome address – Erik Schrumpf

1305 International PSC study group – constitution and prospects
Chairs: Michael Manns, Roger Chapman

1400 International PSC database – parameter consensus
Chairs: Kirsten Muri Boberg, Tobias Weissmüller

1600 Clinical studies in PSC – opportunities within a study group
Chairs: Keith Lindor, Christoph Schramm

Day 2

0800 Genetic/functional studies in PSC – opportunities within a study group
Chairs: Tom H. Karlsen, Arthur Kaser

0940 Cholangiocarcinoma in PSC – opportunities within a study group
Chairs: Stephen Pereira, Jochen Wedemeyer

1100 International PSC biobanking protocol consensus
Chairs: Michael Trauner, Martti Färkkila

1315 EU framework application – opportunities within a study group
Chairs: Peter Jansen, Michael Manns

International PSC Study Group meeting

Austria:
- Prof. Michael Trauner
- Dr. Arthur Kaser

Belgium:
- Prof. Johan Fevery
- Prof. Werner Van Steenbergen
- Dr. Liesbet Henckaerts

Canada:
- Dr. Gideon M Hirschfield

Finland:
- Prof. Martti Färrkkila

France:
- Prof. Raoul Poupon

Norway:
- Prof. Erik Schrumpf
- Dr. Kirsten Muri Boberg
- Dr. Tom Hemming Karlsen
- Prof. Lars Aabakken

Germany:
- Prof. Ansgar Lohse
- Prof. Michal Manns
- Dr. Christoph Schramm
- Dr. Tobias Weismüller
- Prof. Andre Franke
- Dr. Daniel Gotthardt
- Dr. Jochen Wedemeyer
- Dr. Peter Sauer
- Dr. Tim Lankisch
- Prof. Stefan Schreiber

Iceland:
- Prof. Einar Björnsson

Ireland:
- Prof. Hugh Mulcahy

Italy:
- Dr. Pietro Invernizzi
- Dr. Marco Marzioni

Spain:
- Prof. Albert Parés

Switzerland:
- Prof. Alexander Knudt
- Dr. Beat Müllhaupt

The Netherlands:
- Prof. Peter Jansen
- Prof. Ulrich Beuers
- Dr. Cyriel Ponsioen

UK:
- Prof. Roger W. Chapman
- Dr. Stephen Pereira
- Prof. David Adams
- Dr. Simon M Rushbrook

US :
- Dr. Konstantinos Lazaridis
- Prof. Dennis Black
- Brian D. Juran
- Prof. Keith Lindor
- Dr. Christopher Bowlus

NoPSC projects

- **Functional genetics in PSC**
- **Molecular biomarkers in early diagnosis of cholangiocarcinoma**
- **Inflammatory bowel disease in PSC**
- **Liver transplantation in PSC**

Functional genetics in PSC

- **Finding new disease genes in PSC**
- **Further characterization of the HLA association**
- **Functional characterization of new non-HLA disease genes already identified in PSC**
- **Determining the effect of genetic variants on PSC severity and disease course.**
- **Determining the effect of genetic variants on risk of cholangiocarcinoma in PSC.**

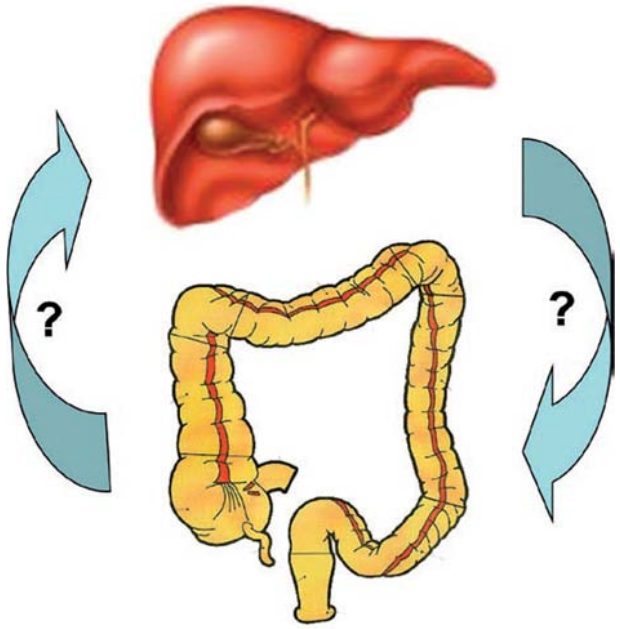
Molecular biomarkers in early diagnosis of cholangiocarcinoma(CCA)

- **DNA methylation result in changes in gene expression and can promote cancer development**
- **Analysis of choleangiocarcinoma cell lines, have discovered some DNA methylation target genes that can potentially play a role in cancer development, making them candidates for further study**
- **Aim; establish early markers for CCA**

Kim Andresen *(PhD student)* aims to identify biomarkers for cholangiocarcinoma in PSC.

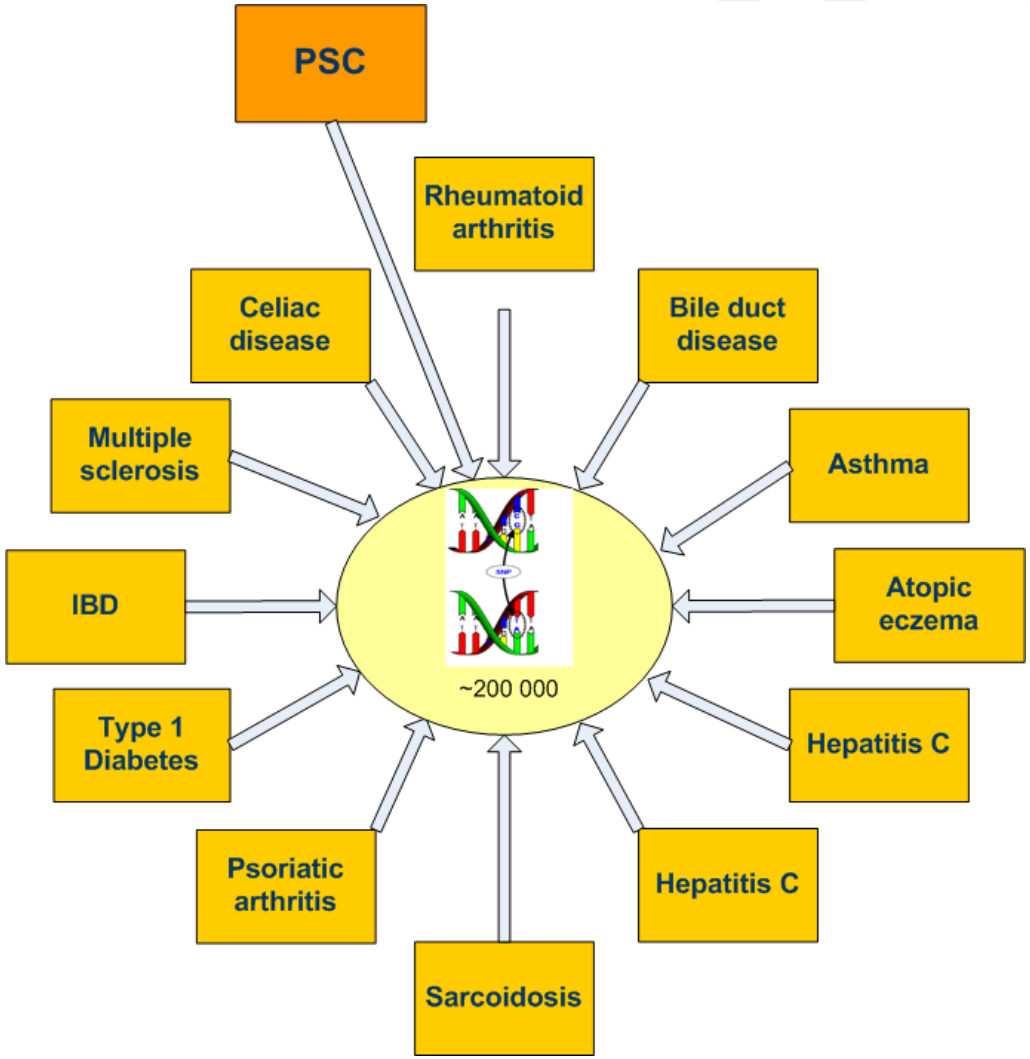
Inflammatory bowel disease in PSC

- **Histopathological characteristics of IBD in PSC.**
- **The clinical disease activity in PSC patients with IBD.**
- **Colorectal malignancies in IBD associated with PSC/ the neoplastic potential of IBD in PSC.**

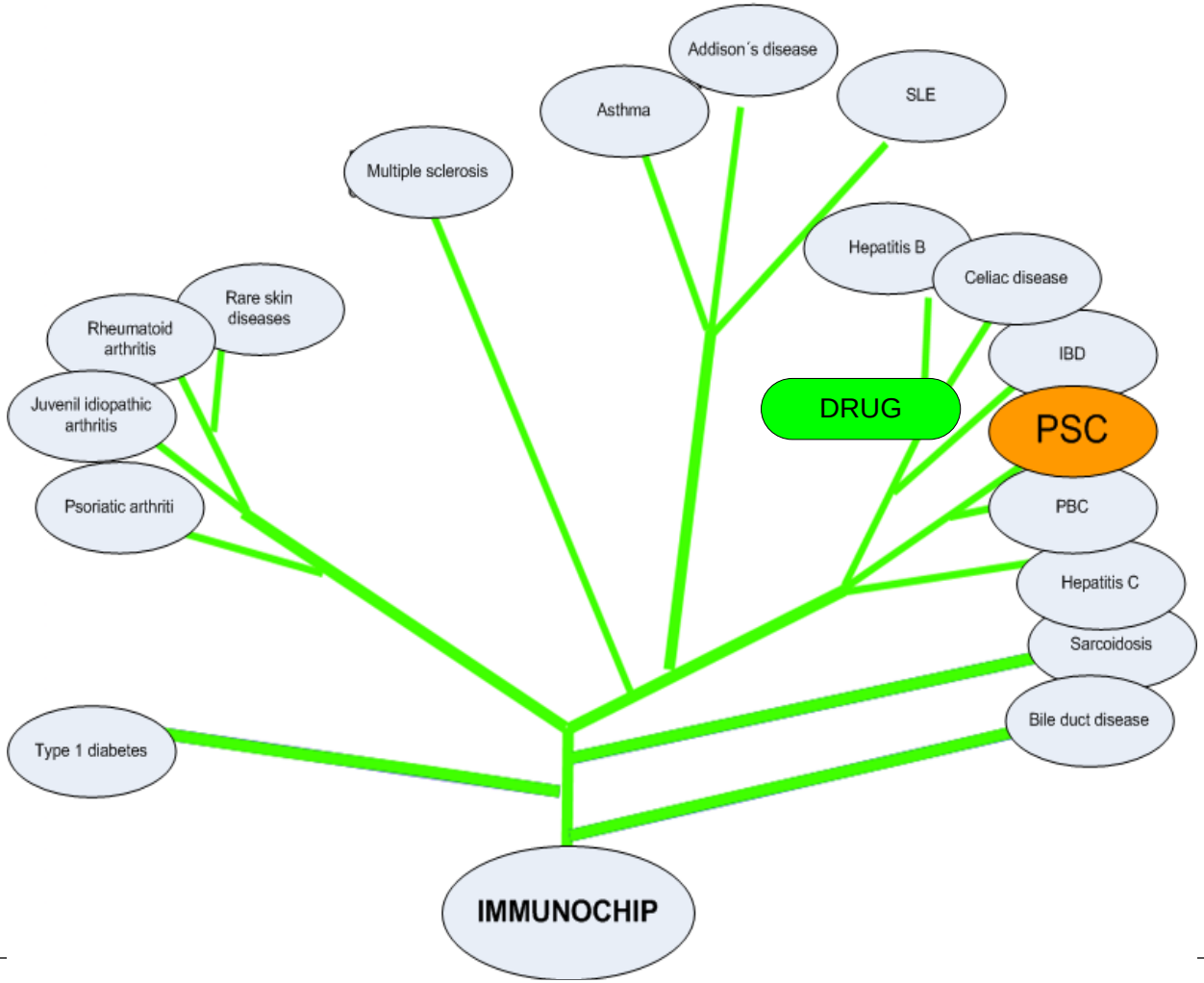


The immunochip project

PSC:
n= 4000

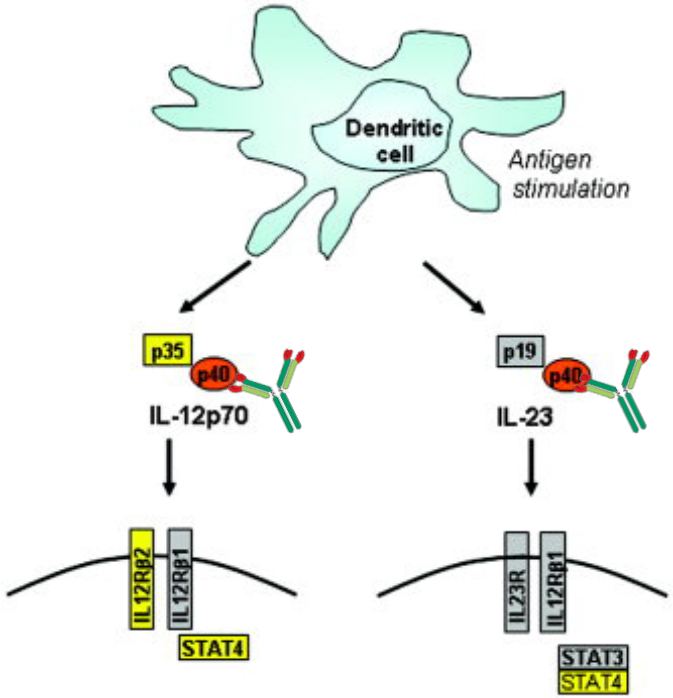


The immunochip project



Drug development in PSC

Translation – therapeutic implications (e.g. *IL12A/IL12RB* in PBC)



(Hirschfield et al., Hepatology 2009)

Ustekinumab (anti-p40):

- **Psoriasis: Effective**
- **Crohn's: Suggestive**
- **Sarcoidosis: Ongoing**
- **PBC ???**

Drug development in PSC

Thank you!