





- Provide an overview of Crohn's disease
- Highlight newly uncovered genes and targets for treatment in genetic research
- Identify microbiome research and the role of bacteria in Crohn's disease
- Highlight clinical research studies in targeted groups: pregnancy and pediatrics
- Introduce CCFA Partners program and its importance in the future of research



Crohn's Disease

- Peak onset in teens
 - All ages affected
 - Growth and development problems in children
- Immune-mediated
- Family (genetic) susceptibility
- Lifestyle affects disease risk









Early Onset (<1 y/o) Aggressive Crohn's Disease Due to a Rare Mutation in the IL-10 Hormone Receptor



- Team Leader, Dr. Scott Snapper – CCFA Research Initiatives Chair
 - Glocker EO. N Engl J Med, 2009
- Treatment implications
 - IL10 hormone won't correct
 - Stem cell replacement gave complete remission
 - Future: identify compensatory hormone

Targeting the IL-12/IL-23 Pathway in Crohn's Disease















80 Agents in the Clinical Trial Pipeline

- Homing blockers
 - Natalizumab (approved, 2008)
 - Vedolizumab (phase III, 2009)
- IL12 and 23 blockers
 - Ustekinumab (phase III, 2009)
- Adult mesenchymal stem cells
 - Control inflammation, promote tissue repair, prevent scar formation
 - Prochymal (phase III, 2009)
- · Combination of TNF blockers and methotrexate
 - More frequent response and better maintenance for fistulizing Crohn's
 - Concern: infection and cancer risk
 - CCFA Clinical Alliance trial to clarify best patients for combination therapy









Injurious and Protective bacteria at the Intestinal Surface Associated With Crohn's Disease

















Program Evaluation

www.RMEI.com/CCFAevaluation