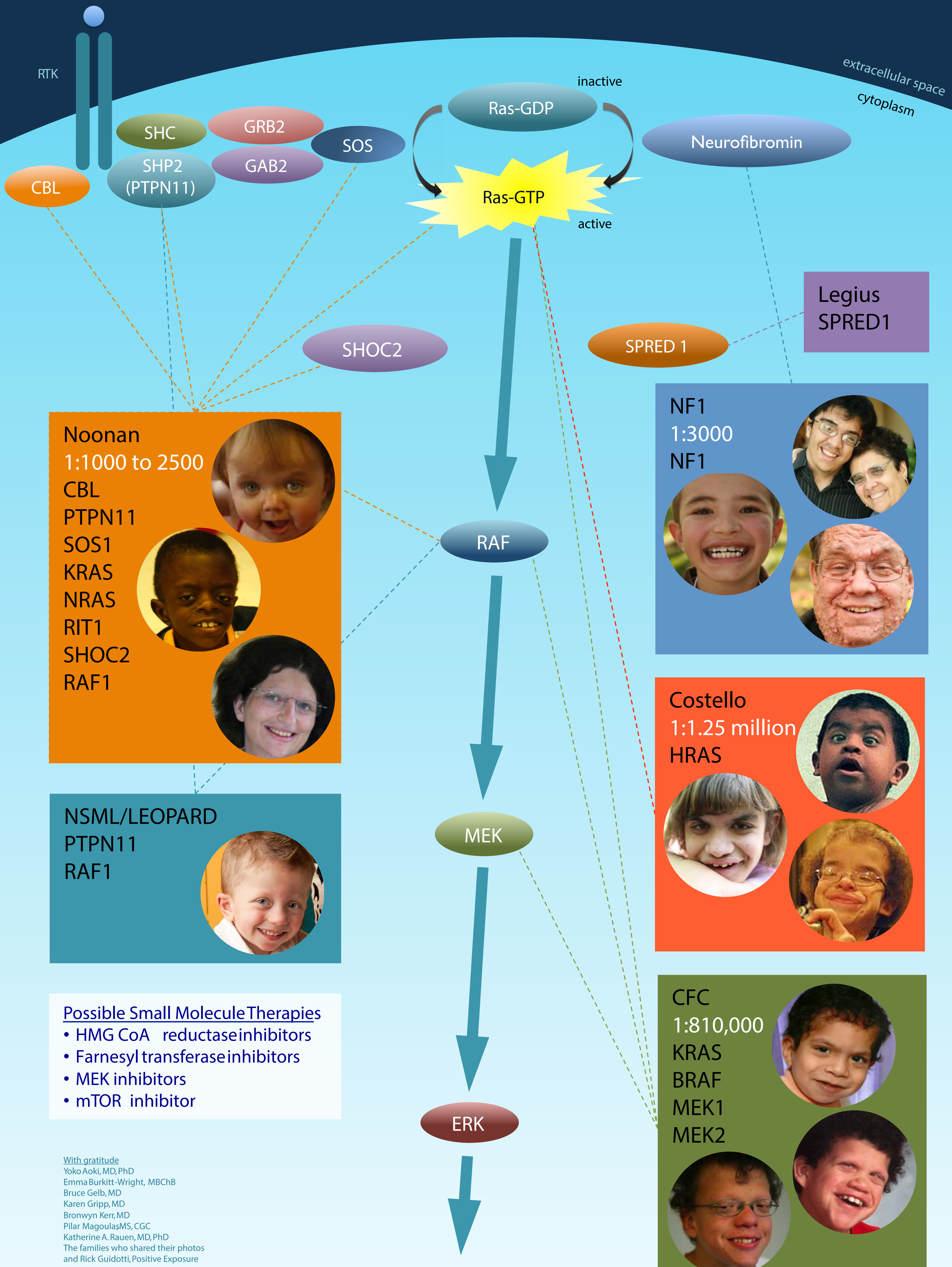


# RASopathies



**Noonan**  
1:1000 to 2500  
CBL  
PTPN11  
SOS1  
KRAS  
NRAS  
RIT1  
SHOC2  
RAF1

**NSML/LEOPARD**  
PTPN11  
RAF1

- Possible Small Molecule Therapies
- HMG CoA reductase inhibitors
  - Farnesyl transferase inhibitors
  - MEK inhibitors
  - mTOR inhibitor

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**NF1**  
1:3000  
NF1

**Costello**  
1:1.25 million  
HRAS

**CFC**  
1:810,000  
KRAS  
BRAF  
MEK1  
MEK2