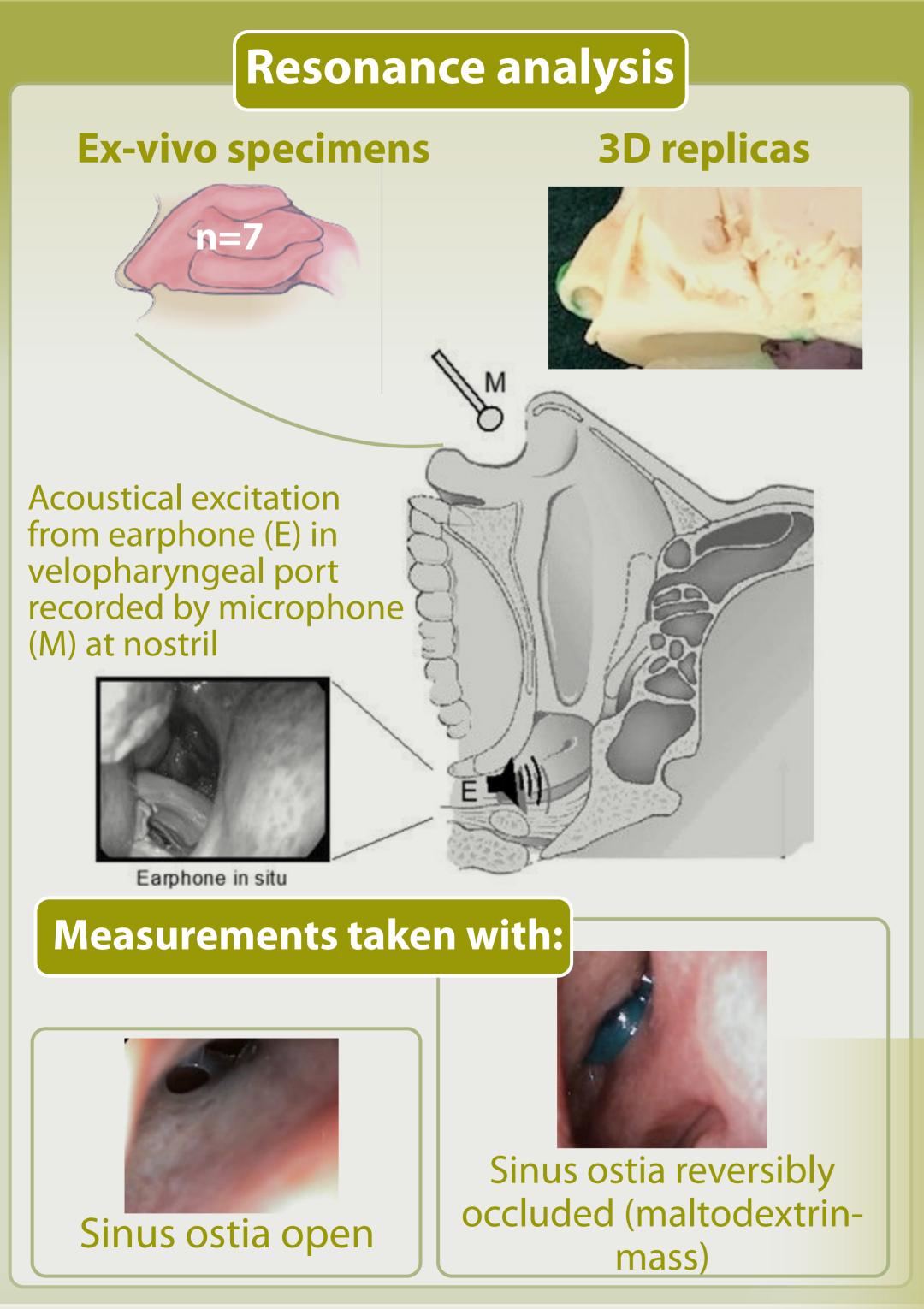
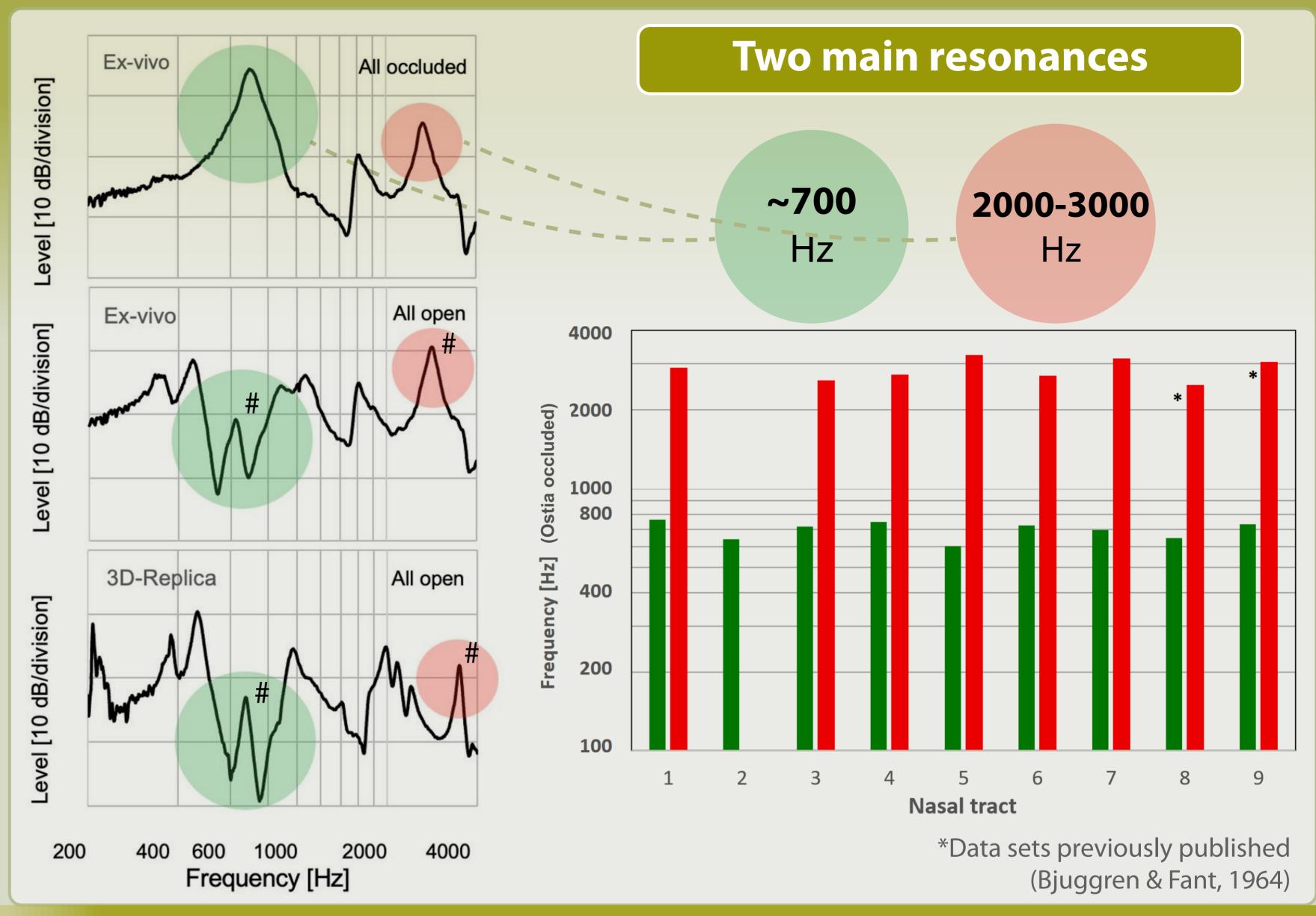
## Ex-vivo and replica measurements of nasal tract resonances





- The paranasal cavities absorb sound energy at their resonance frequencies, causing splitting or shifting of the resonance peak (#)
- Depending on degree of sinus pneumatization and its effect on shape, these frequencies vary inter- and intra-individually
- 3-D replicas provide realistic models of acoustic properties of nasal tracts, offering means to predict how nasal resonance can affect vocal tract resonance

