# MOVEN MICKOOK BANISMS!

- ENKARYOTIC PROTOZOA & FUNDI
- PROKARYOTIC -> BACKRIA (facultative, microaerophilic, or annerobic... feb oplicate derober)
- Archnea -> lekin prokets = infected pulp chambers
- \* MOUTH NICHES < PHANE CKYPTS & MICKOURGANISM COMMUNITIES! -> PROTECTED TROM < 1) JALIVA FLUSTING

  (MANUE SA)

## JUPKA-G

- \* FACULTATIVE & MICKOACKOPHILIC BACTERIA
- \* Oram + Strep, LACTOBACILLUS, ACTINOMYCES
- 4 Conse capies
- \* NRU = CARBS \* FIRMLY Adnerent to Platine
- \* pH = Ulibhtly Acidic

#### SNB-6

- \* tacultative \* Achobic Bactchia
- ★ GRAM RIAS \* SPIROCHERS; THENTONEMA, FUSOBALLERIUM - cause perio disease endo infections
- \* NKG = PROTINS
- \* MANY Motile forms
- \* pH = slightly BASIC
- · deep perio poukets = 17 strict anaerobes
- · GINGIVITIS = PLARME BIOFILM OVERBROWTH
  - → GRAM + > GRAM-

### BIOFILMS

- · firmly attached cells (to each other + surfaces)
- · ambeddad in Elm
- phenotype to browth knte + Gene transcription

#### > properties:

- Complex, cooperating & competing multi-microorganism communities -> Microcolony ARRANGEMENT w/ diffekind en vironments
- SVRROVNDED & ATTACKED VIA PROJECTIVE MATRIX
- Simple Brokum sensive communication
- BIDTIMS REPOSTANT TO: ANTIBIDTICS, ANTIMICROBIALS & HOST RESPONSE
- As PLAGNE + , 02 & JALIVA PLRMEABILITY & WASHING &
  - 4 HIGHER CONC. OF TOXING, ACIAS INFLAMMATORY BACTERIAL COMPONENTS
  - Lass Acrobic = more Gram BAUTERIA = + GINGIVITIS, CARIES, PSEVDOPOCKETS, PERIODONTITUS, LOA
- \* TRANSIENT Flora = Micko orgs Brongth to Area from somewhere else Lydifficult time colonizing so gone in Hours to Days

#### Flort Review:

- DNOKMAL: do Not cause disease OPPORTUNISTS disease under conditions
- 3 PATHOGENS: generally cause disease

## > INITIAL COLONIZATION

- · fetus in sterile environment --> oral cavity exposed @ Birty to VABINAL microokbanisms
- · first weeks of life: Joth tissues colonized via kisses
- · teeth Ervpt = 4 New Niches!!
  - 1) pits + fissnres
  - 2) inter proximal unreaces
  - 3) SMOOTH SURFACES
  - 4) bindival tooly interfaces
  - dental plague must form first a intial colonizaris must adhere well to footh surface / pellicle -> STREP MUTANS COLONIZES WHEN 2ND MOLARS ERUPT

(nut enamel dependent)

· Stable by 24. But still changes we major life utances

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provide sites for secondary 14 lohizeks