

Biology – Math Challenges: How Shared Language Helps

A shared language can clarify. It cannot decide how to weigh data, evidence, or views on what to explore next. Research efficiency is in the eye of the discipline. Its views bundle simplifying assumptions to streamline work. Their clash in Bio-Math can trigger FEAR*
→ We need ways for negotiating where to go next that are as FAIRVIEWABLE as good code.

* **Forget Everything And Run**; ... or **Face Everything And Rise**: how we react is our **choice** if we can distinguish between **danger** (objective external risk) and **fear** (the brain's reaction). Biologists who fear unknown math will likely re-inforce their math-phobia if trying to get into math outside of a safe environment that reduces the knee-jerk responses typical of fear. Manuals of shared user-friendly languages can be safety nets if collaborators can point each other to background explanations not readily available in the other discipline.



Bucket Wheel Excavator

Imagine, a scalpel and an excavator walk into a bar to start collaborating. Over drinks they discuss areas of work... Bucky E. unearths tons of complexity, while Medi S. hunts for its exact boundary conditions... But Bucky is too imprecise, and starts to fear Medi's questions that are sharp and pointy, as Medi's field requires. An Medi is tiring of tons of new terms to test at every turn – exhausting! They fall into **a row** over how rows excel in matrix tables... π h U Σ ? They barely see **Fair View Able, trying to restore reason** by recalling them names long forgotten...but **will they listen?** A jargon jukebox is rapping: ... *Don't bother breaking bolder ground by boasting basket brilliance. It takes braving raving naming breaking brilliant brainy briefs – from boring brief-named babbling – by bonding over... brunch.*



Medical Scalpel