DotDr. // AI BIO ORCHESTRATION

The Switchboard Between Scientific Disciplines (AlphaGenome • AlphaFold 3 • Gemma 4 • ESM3 • Evo 2 • Botanic1)

Contact: Duncan Luke (duncan@dotdr.co.za)
Order Portal: https://dotdr.co.za/order
Compute Node: GCP JHB (africa-south1) + NL GPU

[2026 YEAR-END SOVEREIGN BIO-AI COMPUTE GRANT — EXPIRES 20 DEC 2026]
Every priority institution receives a **R5,000 ZAR Pre-Paid GPU Voucher (20 Free ~R250/run analyses)** to test our 4 working products immediately with zero patient PII, or can apply 100% toward a 2026 Pilot / 2-Week Sprint.

1. CONCRETE EXAMPLES OF OUR 4 WORKING PRODUCTS (LIVE RIGHT NOW AT HTTPS://DOTDR.CO.ZA/ORDER)

Code & Product	What It Solves for Your Lab	Concrete Deliverable & Example Output	Speed & Unit Economics
PROD-01 Scientific Switchboard & Genetics Report Engine	Replaces **R3,600+ overseas post-sequencing bioinformatic analysis** and multi-day queues on the bottlenecked **Cape Town CHPC supercomputer**.	**2-Page White-Labeled Genetics Report PDF + LIMS JSON:** e.g., *CYP2D6*17* & *BRCA2* cryptic splice scoring (AVI 0.942) + ACMG v3.2 / CPIC dosing tier for HPCSA sign-off.	**~R250 / GPU run** Generated in **18.4 seconds** on JHB + NL Google Cloud GPUs
PROD-02 Wet-Lab Reproducibility & Laminar-Flow Vision QC	Acts as the switchboard between bench protocols and bioinformatics—preventing ruined R42,000+ sequencing plates and assay drift.	**Real-Time Bench Vision Alert & ISO 15189 Audit Log:** Catches an **18-second reagent rest difference** (62s vs 44s bead dry) or **1 µL pipetting variance** (Well C04) live.	**18s & 1 µL Precision** Real-time laminar-flow hood verification
PROD-03 Local POC Diagnostic Enzymes & TB Radar	Designs royalty-free, heat-stable enzymes for **local Point-of-Care (POC) diagnostic tests** & flags antibiotic resistance.	**POC Enzyme FASTA + 3D AMR Resistance Profile:** Engineered *DOTDR-Bst-AF1* (68.5°C cold-chain-free LAMP polymerase) + *M. tuberculosis rpoB/katG/atpE* resistance.	**In Seconds (14.2s)** 100% Royalty-Free Local POC Sequences
PROD-04 Africa-First Vaccine & Non-Coding Genome R&D	Global models are trained on European DNA. Validates models on **African genomes (including 98.5% non-coding regulatory DNA)**.	**Conserved 3D Epitope Dossier & African eQTL Map:** 99.4% conserved Southern African TB/HIV surface pockets (pLDDT 94.2) + non-coding regulatory benchmarks for joint grants.	**Co-Owned IP** Immediate Peer-Review & Grant Pack

2. 2026 YEAR-END ORDER & VOUCHER REDEMPTION FORM (SELECT OPTION OR COMPLETE AT DOTDR.CO.ZA/ORDER)

Select	Engagement Tier / Order Package (All Below R200k Tender Threshold)	Scope & Deliverables Included	Fixed Fee (Excl. VAT)
[ ] **Option A**	**Redeem R5,000 Sovereign Bio-AI Compute Grant Voucher**	20 Free live ~R250/run GPU analyses on anonymized coordinates or enzyme targets (Valid until 20 Dec 2026).	**R0 ZAR** (R5,000 Voucher)
[ ] **Option B**	**2026 Year-End Grant Pre-Pay: 100-Run GPU Compute Pack**	Pre-purchases 100 on-demand ~R250/run GPU analyses using remaining 2026 grant/consumables budget (Valid 12 months).	**R25,000 ZAR** (100 Runs @ R250)
[ ] **Option C**	**30-Day Anonymized Pilot Proof-of-Concept (POC)**	20–50 historical anonymized coordinates + itemized concordance, VUS/splicing & TAT report (100% credited to Sprint 1).	**R35,000 ZAR** (100% Credited)
[ ] **Option D**	**2-Week Custom AI Production Sprint (Most Popular)**	Full-stack 2-week build & LIMS/visualizer integration of selected workflow(s). 100% source code & IP ownership.*	**R160,000 ZAR** (Fixed 2-Week Sprint)
[ ] **Option E**	**Managed Orchestration & 99.9% SLA Retainer**	Monthly model tuning, ACMG/CPIC updates & dedicated JHB + NL GPU cluster management (Range: R45k–R120k/mo).	**R65,000 ZAR** / Month Standard

Target Product Workflow(s): [ ] **PROD-01** (2-Page Genetics Report) [ ] **PROD-02** (Laminar-Flow Vision QC) [ ] **PROD-03** (Local POC Enzymes & TB) [ ] **PROD-04** (Africa-First Vaccine/Genomes)

Institution / Lab: _____ **Contact Name & Email:** _____

Voucher Code / PO #: _____ **Authorized Signature & Date:** _____

*__IP, Hosting & Regulatory Terms:__ Client receives 100% ownership of custom sprint code and outputs to use freely across your research, with associated project hosting fees billed monthly based on 3rd-party cloud consumption (Google Cloud Johannesburg africa-south1 / Netherlands GPU pass-through at cost + 15%). 100% POPIA Act 4 (Zero PII) & HPCSA Assistive Copilot compliant. **To order online in 60 seconds or generate an instant Pro-Forma Invoice:** visit **https://dotdr.co.za/order** or email **duncan@dotdr.co.za**.