

The Universal Cancer Sovereignty System

Open-Source Blueprints for the End of Cancer

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Mission: A complete diagnostic and therapeutic system for all cancers.

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THE SENTINEL PLATFORM: Universal Cancer Detection

Core Idea: One detection system for all

cancers - solid and liquid.

Tri-Modal Detection Method (Prior Art):

1. Genomic Instability Number (GIN)

- Method: Low-Pass Whole Genome Sequencing of cell-free DNA
- Formula: $GIN = (\text{Percentage of Genome with Copy Number Alterations}) * (\text{Fragment Length Ratio} < 150\text{bp})$
- Detection: $GIN > 0.05 = \text{cancerous DNA chaos present}$

2. Warburg Index (WI)

- Method: Urine Metabolite Profiling via Capillary Electrophoresis
- Formula: $WI = [\text{Lactate}] * [\text{Succinate}] / [\text{Citrate}]$
- Detection: Elevated WI = cancerous metabolism active

3. Systemic Inflammation Score (SIS)

- Method: Finger-prick blood test for 5-cytokine panel
- Formula: $SIS = (0.3 * [\text{IL-6}]) + (0.3 * [\text{IL-8}])$

+ (0.2*[TNF- α]) + (0.1*[VEGF]) - (0.1*[IL-10])
· Detection: High SIS = cancer-induced
immune alarm

Universal Triage Algorithm:

```
```python
def sentinel_triage(gin, wi, sis,
sample_type):
 universal_cancer_probability = (0.50 *
gin) + (0.30 * wi) + (0.20 * sis)

 if universal_cancer_probability > 0.75:
 if sample_type == "solid_tissue":
 return "URGENT: Initiate UNICORE
protocol"
 else:
 return "URGENT: Initiate
HAEMOCORE protocol"
 elif universal_cancer_probability > 0.45:
 return "SUSPICIOUS: Monitor closely"
 else:
 return "NEGATIVE: No cancer
```

signature detected"  
...

## UNICORE: Solid Tumor Sovereignty

For Carcinomas, Sarcomas - All Localized Cancers

Two-Phase Destruction Protocol (Prior Art):

Phase 1: Localized Vascular Disruption (LVD)

- Action: Image-guided injection of Biodegradable PLGA Microspheres + Fosbretabulin
- Effect: Starves tumor via blood supply collapse

Phase 2: In-Situ Immunogenic Re-education (ISIR)

- Action: Immediate injection of immune

primer cocktail:

- TLR9 Agonist (CpG ODN): 5 mg
- IL-15 Superagonist (ALT-803): 100 µg
- Anti-CD40 Agonist: 1 mg
- Effect: Turns tumor into personalized vaccine

UNICORE Execution:

```
```python
```

```
def unicare_procedure(tumor_coordinates,  
volume):
```

```
    # Phase 1: Starve
```

```
    lvd_dose = volume * 2.5
```

```
    inject(lvd_microspheres,  
tumor_coordinates)
```

```
    # Phase 2: Activate
```

```
    isir_cocktail = prepare_cocktail(5.0, 0.1,  
1.0)
```

```
    inject(isir_cocktail, tumor_coordinates)
```

```
    return "UNICORE Complete: Solid tumor
```

neutralized"

...

HAEMOCORE: Liquid Cancer Sovereignty

For Leukemias, Lymphomas, Myelomas

Dual-Modality Cellular Engineering (Prior Art):

Modality 1: SENTINEL-V (In-Vivo Reprogramming)

- Process: Two infusions:
 1. Universal Docking Tag (e.g., Anti-CD19 peptide)
 2. AAV Vector with Universal CAR gene
- Result: Body becomes its own cancer-killing factory

Modality 2: SOVEREIGN-BIOREACTOR (Ex-Vivo Manufacturing)

- Hardware: Open-source automated bioreactor
- Process: T-cell isolation → non-viral gene insertion → expansion → reinfusion
- Cost: <\$1,000 vs corporate \$500,000+

HAEMOCORE Execution:

```
```python
def haemocore_treatment(cancer_type,
burden):
 if cancer_type in ["B-ALL", "Myeloma",
"NHL"]:
 if burden == "Low":
 return "SENTINEL-V In-Vivo with
Anti-CD19/BCMA Tag"
 else:
 return "SOVEREIGN-BIOREACTOR
Ex-Vivo CAR-T"
 elif cancer_type in ["T-ALL", "T-
Lymphoma"]:
 return "SOVEREIGN-BIOREACTOR with
```

# CRISPR Knockout"

...

## INTEGRATED TREATMENT PATHWAY

1. SENTINEL Detection: Universal cancer screening
2. Therapeutic Routing:
  - Solid Tumor Positive → UNICORE localization & destruction
  - Liquid Cancer Positive → HAEMOCORE cellular reprogramming
3. Continuous Monitoring: SENTINEL tracking for complete clearance

### Prior Art:

- Universal SENTINEL detection formulas (GIN, WI, SIS)
- UNICORE LVD+ISIR combination therapy
- HAEMOCORE dual-modality cellular engineering
- All integrated algorithms and hardware designs

Sovereign Release: This complete system - detection & cure - is now humanity's intellectual commons. The cancer monopoly is broken.