



DARPATech

2002 Symposium

Transforming
Fantasy



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Objective Force Warrior

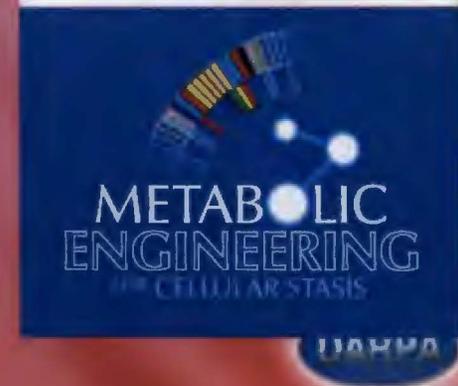


Enhancing Human Performance in Combat

- ▶ Continuous Assisted Performance (CAP)
- ▶ Metabolic Dominance (MD)
- ▶ Persistence in Combat (PiC)
- ▶ Metabolic Engineering (ME)



CAP
MD
PiC
ME



Continuous Assisted Performance



This is your brain.



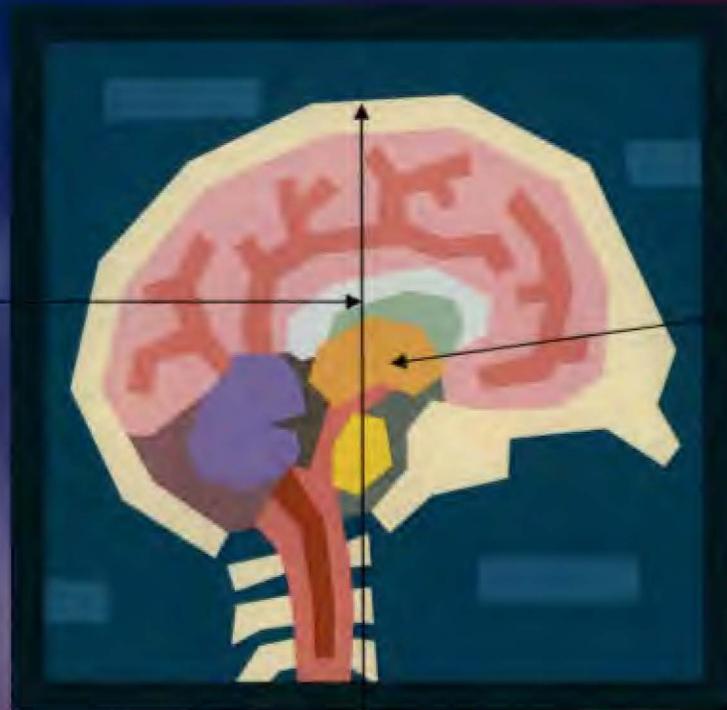
This is your brain
without sleep



Continuous Assisted Performance



Expand
Available
Memory



Sleep
Resistant
Circuitry

Minimize/Reverse Consequences
of Sleep Deprivation



Continuous Assisted Performance



ENU Mouse
Lacks Circadian Clock



Hemispheric Sleep



Prunes and
Regrows Synapses



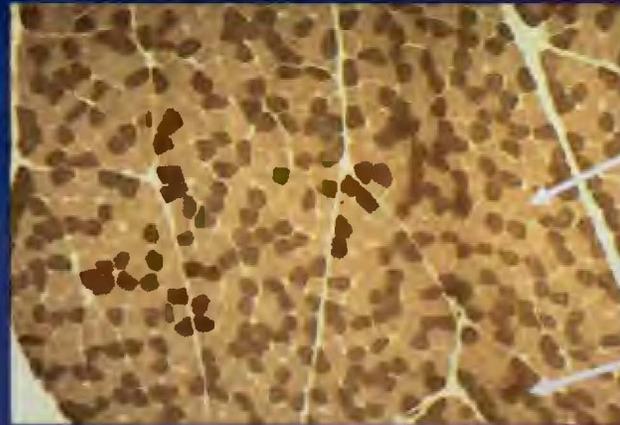
Metabolic Dominance



Created by Myron Waldman



Metabolic Dominance



Slow

Fast

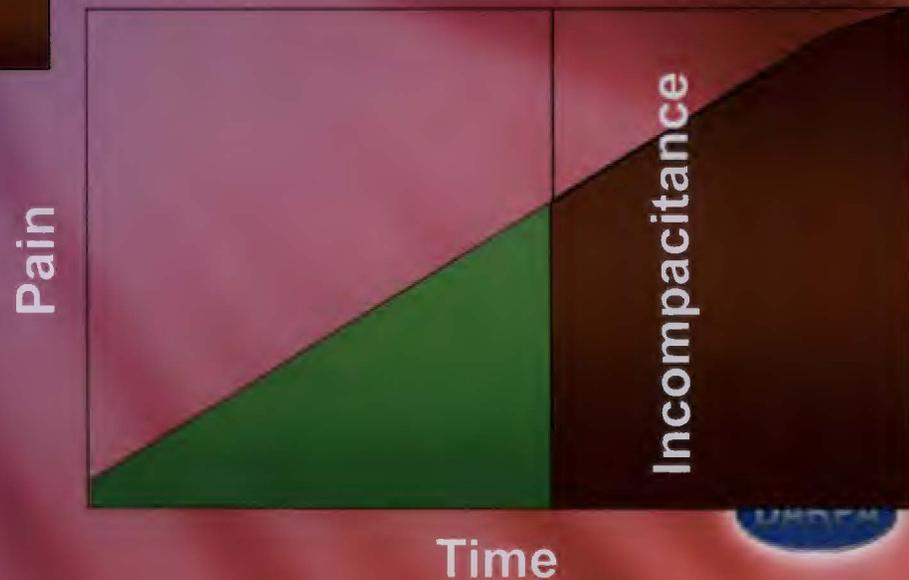
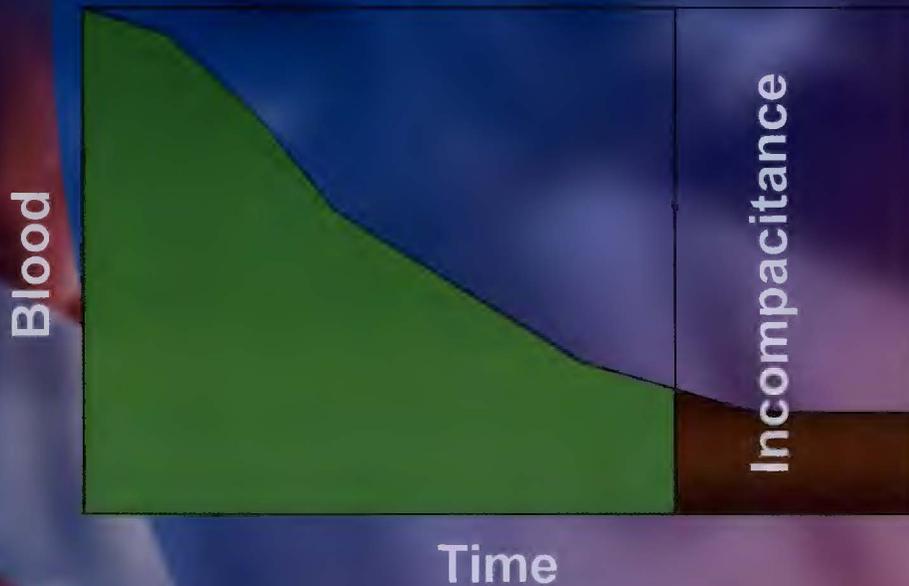


Transform
Fantas

Persistence in Combat



Blood Loss Over Time



Metabolic Dominance



- ▶ Blood with an indefinite shelf life.
- ▶ Slow down metabolism.
- ▶ Accelerate healing.
- ▶ Non-contact bioelectric potentials.



Enhancing Human Performance in Combat



Enhancing the abilities of the warfighter results in superior capabilities and a decided edge on the battlefield.



Enhancing Human Performance in Combat

“Be all that you can be . . . and a lot more.”



Created by Alex Ross





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A stylized white lightning bolt graphic with a black outline, pointing to the right. It is positioned behind the word "Fantasy" in the "Transforming Fantasy" logo.