A Better Vaccine

Statistical Physics Can Help Build

Veritas’s Michael Dean: “A new way to study the

efficacies of the various vaccines is to compare

strains are not always easy to grow,

the population’s strains are changing over time. This
means it is close to impossible to match the

strains of the human strains, making it

impossible to make a single vaccine that

covers all strains. This is why we need

to develop new approaches to

vaccinate against influenza.”

In this context, Veritas’s Michael Dean

explained how statistical physics can

provide new insights into the

mechanisms behind influenza

vaccines. By understanding the

behaviors of the virus at a

microscopic level, researchers

can design vaccines that

target specific strains with

greater efficacy.

Dean emphasized the

importance of looking at

the virus as a complex

system and using

mathematical models to

predict how it will

evolve. This approach

allows for more

tailored and effective

vaccines that can

adapt to changes in the

virus population.

In conclusion, Veritas’s

Michael Dean believes

that statistical physics

offers a promising

framework for

advancing our

understanding of

influenza and

developing more

effective vaccines.

Veritas is a biotechnology

company that specializes

in developing personalized

healthcare solutions. They

are at the forefront of

innovative approaches to

fighting infectious diseases.

Dean encourages further

research in this area to

advance the field of

vaccine development.

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Richmond Lam"