

# **POSSIBLE IMPLICATIONS OF THE IMMUNE AND REPRODUCTIVE SYSTEMS OF THE COCKROACH IN TREATMENT OF INCURABLE OR INTRACTABLE KILLER DISEASES RELATED TO THE IMMUNE AND REPRODUCTIVE SYSTEMS**

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## **INTRODUCTION & ASSUMPTIONS**

It is a known fact that Cockroaches are one of the oldest inhabitants on Earth (Reference: Times of India, Mumbai Edition, Sci-fi section, date of the newspaper I don't remember) and also the Asian Cockroach multiplies itself so rapidly and in such large numbers that to exterminate them is not just a nuisance but becomes virtually impossible (Reference: 8<sup>th</sup>/9<sup>th</sup> Standard ICSE Biology textbook of my daughter who studied in Christ Church school, Byculla, Mumbai, India).

### **Observations made of the Cockroach in Daily life**

It has been observed that once a Cockroach makes its entry in an Indian home, it is here to stay. No kind of chemical treatment or cleaning action will eradicate the cockroach from the Indian home/kitchen. Also the cockroach is known or observed to be surviving in all kinds of natural/unnatural environments such as garbage places/abandoned areas etc. such places are its natural habitat.

## **CONCLUSION**

The conclusions drawn from the known facts and the observations made is –

Let us say some cockroaches inhabit a home and the housewife sprays or applies some chemical substance to eradicate them. But it has been noticed that some strains of the cockroach do survive and multiply. And the housewife has to spray or apply the chemical anew or apply/spray a new type of chemical to eradicate the cockroach from the home but still the cockroach survives, and literally there is a constant war between the housekeeper and the cockroach pest. The only conclusion one can draw from this is that the chemical substance has no effect on the cockroach and it still survives no matter how harsh the chemical substance maybe. Hence one can conclude that the immune system of the cockroach is so robust that either it does not affect its reproductive capability or some strains of the cockroach do survive the treatment.

1. In case of some strains of the cockroach surviving and multiplying, it would be worthwhile to study the immune system of such strains e.g. we could use the cockroach as a guinea pig for all immune system related disorders/diseases (especially killer diseases such as Cancer, Aids virus etc) and study the implications/impact of such diseases on its immune system and competency to survive and live healthily and/or via its progeny (assuming that the cockroach does not survive but its progeny survives healthily, disease free). Hopefully this can give us some vital clues to the immune system and treatment of such diseases via the study of such strains of cockroaches.
2. In case the cockroach does not survive but its eggs have been laid prior to the chemical treatment and its eggs do survive the treatment. In such a case the immune system of the reproductive organs of the dead cockroaches and the immune system of these dead cockroaches in general need to be studied as to how though the cockroach has not been able to survive but its progeny is able to survive the onslaught of the treatment. Also the birth of such cockroaches and its survival need to be studied in detail as to how the parent was not able to survive but its progeny is still surviving. Again this may give us some clues to the treatment of diseases in general and especially diseases of the immune systems/genes of reproductive organs/systems.

Hence we conclude that the study of Immune systems of cockroaches and the Reproductive Systems/Organs of the cockroaches is important for all human kind.

### **Implications and potential applications**

From the above observations there are many potential applications such as –

1. Aids/Cancer cures.
2. Prevention of gene related disorders.
3. Treatment of immune system disorders.

### **Summary and Scope for further research**

The fact that there is a possibility of prevention of diseases using cockroaches as guinea pigs gives us hope for treatment of intractable, incurable diseases such as Cancer/Aids etc.