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### Dynamical analysis of a delayed food chain model with additive Allee effect

... There are various types of functional responses like Hassell-Varley type [25] Holling type I-III [26,27]; Crowley-Martin type [28]; Beddington-DeAngelis type [29,30,49,50]; and ratio-dependent type by Arditi and Ginzburg [31]. Several writers [9],[32][33][34][35] have explored functional responses to better understand the role of prey-predator interactions in the ecosystem. They incorporated several functional responses, which include Crowley-Martin functional responses, which rendered the model's structure more realistic and controlled in the ecosystem. ...

### A role of fear on diseased food web model with multiple functional response

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## A role of fear on diseased food web model with multiple functional response

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Beddington–DeAngelis type [29, 30, 49, 50]; and ratio-dependent type by Arditi and Ginzburg [31].

Several writers [9, 32–35] have explored functional responses to better understand the role of prey–predator interactions in the ecosystem. They incorporated several functional responses, which include Crowley–Martin functional responses, which rendered the model's structure more realistic and controlled in the ecosystem. Mathematical biology literature includes some predator–prey models with stage structures [36–40]. These studies indicate that stage structure can significantly impact predator–prey relations.

- [9] Vinoth S, Sivasamy R, Sathiyathan K, Rajchakit G, Hammachukiattikul P, Vadivel R and Gunasekaran N 2021 Dynamical analysis of a delayed food chain model with additive Allee effect *Adv. Differ. Equ.* **2021** 1–20

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