

China's ShangHai Yuelian Biotech launch a powdery mildew resistant solution

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The first novel crop disease control product, **NISSO.Yuebaiding**, is jointly launched in the Chinese market by Shanghai Yuelian and Nippon Soda. It combines Nippon Soda's exclusive compound cyflufenamid with Shanghai Yuelian's proprietary nanoemulsion technology to offer a new solution for controlling powdery mildew amid growing resistance. The product launch and field observation were held in Kunming, where Nippon Soda's nationwide dealers and guests gathered to mark this significant milestone. The successful release of NISSO.Yuebaiding is credited to the breakthroughs in two key technologies: Nippon Soda's cyflufenamid and Shanghai Yuelian's nanoemulsion.

Cyflufenamid is Nippon Soda's exclusive compound with a unique mode of action, showing no cross-resistance to existing fungicides and recognized as a "precision tool" for powdery mildew control. Wang Mingqing, Nippon Soda's marketing director, detailed the product's development and the innovative mechanism of cyflufenamid. Research on the compound began in the 1990s to address the growing resistance of powdery mildew. The compound is both preventive and curative, offering cross-activity, vapor activity, and long-lasting effects, making it effective against powdery mildew strains resistant to DMI, benzimidazole, and strobilurin fungicides

Shanghai Yuelian's nanoemulsion technology improves product efficiency by employing nanoscale particles that pass through the plant's epidermis and waxy layer via macroscopic quantum tunneling, greatly enhancing pesticide utilization. Furthermore, the nano surface effect increases the wettability, spreadability, and adhesion of the pesticide on the leaf surface, thereby prolonging its effect.

Wei Dongsheng, marketing director of Shanghai Yuelian, says that this technology is a breakthrough into the homogeneous competition in the pesticide market, having solved farmer's problem of "more sprays causing more diseases."

The field observation provides a clear demonstration of NISSO.Yuebaiding's effectiveness and safety in preventing and controlling flower powdery mildew, with a close-up view showing the collapse and polycondensation of pathogenic hyphae. Zhu Hongbin, technology and development manager of Shanghai Yuelian, presented data from 16 test sites across 15 provinces, confirming the product's broad crop adaptability, high efficiency, and excellent safety.

- **Melon:** Very effective against pumpkin and muskmelon powdery mildew, with an outstanding protective effect for upper young leaves.

- **Grape:** The control effect appeared better than that of farmer's self-prepared agent during the outbreak of powdery mildew, keeping leaf surface dark green and glossy.

- **Wheat:** Curative and effective in protecting leaves and ears of wheat.

- **Strawberry:** After spraying at 1000-fold for 3 times, powdery mildew obviously fell off in 3 days, hyphae turned black, disease spot of fruit was put under effective control.

Laboratory tests show excellent dispersibility and uniformity of the product: NISSO.Yuebaiding was dispersed instantly after being put in water, without sediment, with strong laser penetration, which can fully pass a 100nm filtration test; on the other side, a competitive product suffered from sedimentation and weak penetration, where almost no clear liquid could flow out after filtration. Upon repeated site verification, dealers voiced a unanimous praise of the product performance.