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封面故事

2018年，非洲猪瘟传入我国，给我国生猪产业造成了前所未有的经济损失。非洲猪瘟在世界上已流行逾百年，至今没有商品化疫苗可用，这是全球生猪行业的痛点和难点。疫苗难以创制的原因是病原免疫与致病机制不清楚，疫苗研发的理论认知有限。郑海学教授团队围绕非洲猪瘟病毒免疫逃逸的机制开展了系统的研究，本期发表的论文揭示了非洲猪瘟病毒蛋白MGF-505-7R抑制Ⅱ型干扰素通路的机制，以及非洲猪瘟病毒缺失MGF-505-7R蛋白后大大降低了动物的致死率，为基因缺失疫苗设计创制提供理论依据和新的靶标。