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## **The two faces of MuSK antibody pathogenicity and their cause and consequences in myasthenia gravis**

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### **Citation**

Vergoossen, D. L. E. (2023, March 7). *The two faces of MuSK antibody pathogenicity and their cause and consequences in myasthenia gravis*. Retrieved from <https://hdl.handle.net/1887/3567889>

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## Stellingen behorende bij het proefschrift

### The two faces of MuSK antibody pathogenicity and their cause and consequences in myasthenia gravis

1. Functional bivalent and monovalent patient-derived MuSK antibodies have opposing effects on the MuSK kinase (this thesis)
2. Class-switching to the IgG4 subclass exacerbates the pathogenic capacity of MuSK antibodies through the process of Fab-arm exchange (this thesis)
3. The effects of MuSK antibodies range from destructive to potentially therapeutic (this thesis)
4. "Muscle-specific kinase" is not the correct name (this thesis)
5. High affinity binding is important for the pathogenicity of IgG4 MuSK antibodies (Fichtner et al. 2020 JEM)
6. IgG4 autoimmune diseases share underlying disease mechanisms (Koneczny et al. 2021 Front. Immunol.)
7. MuSK activation reduces the pathogenicity of Dok7 deficiency (Oury et al. 2021 Nature)
8. Post-translational modifications can change the anti-inflammatory fate of IgG4 by rendering them complement-competent (Haddad et al. 2021 JCI)
9. A braindrain is happening at Dutch Universities (Ilse Josepha Lazaroms, 18-8-2022, de correspondent)
10. Failures are not failures if you learn from them
11. Scientific journals are gatekeepers of scientific careers as opposed to a communication platform of scientific knowledge (Eisen et al. 2022 eLife)