



Unlocking the Future of Drug Discovery: High-Quality Protein Crystallization in Microgravity

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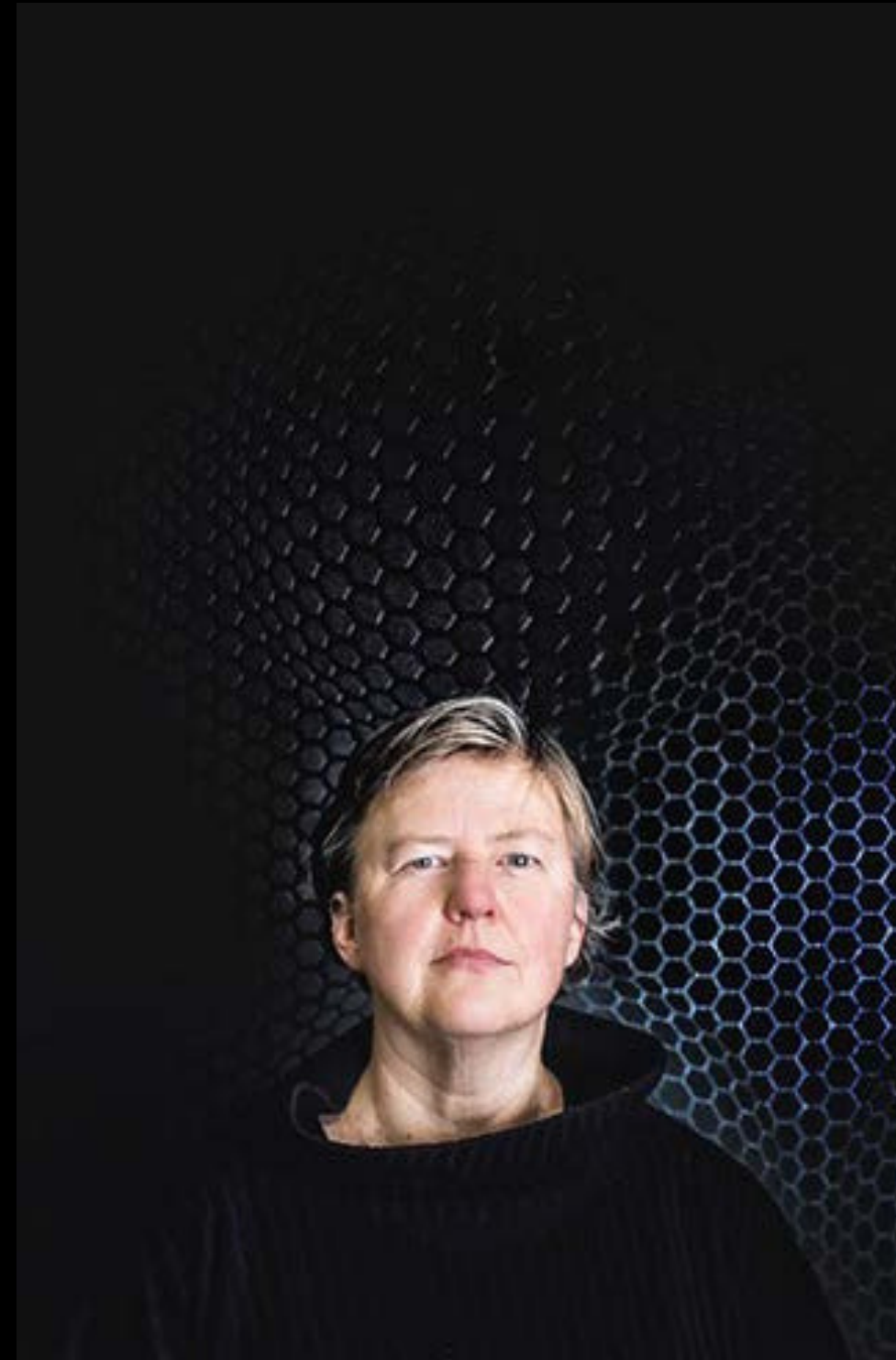
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Kirara
Space-made Protein Crystal



Welcome





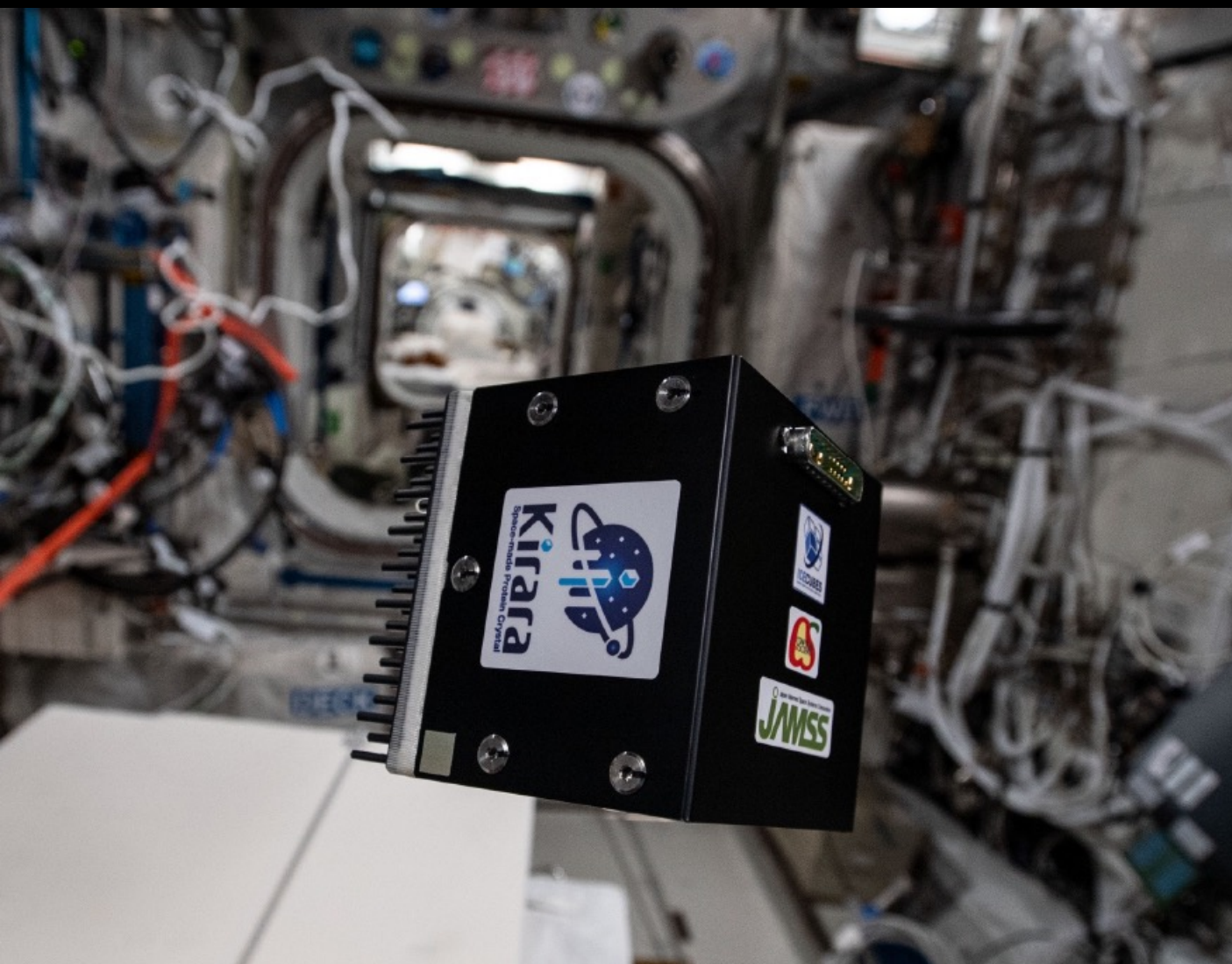
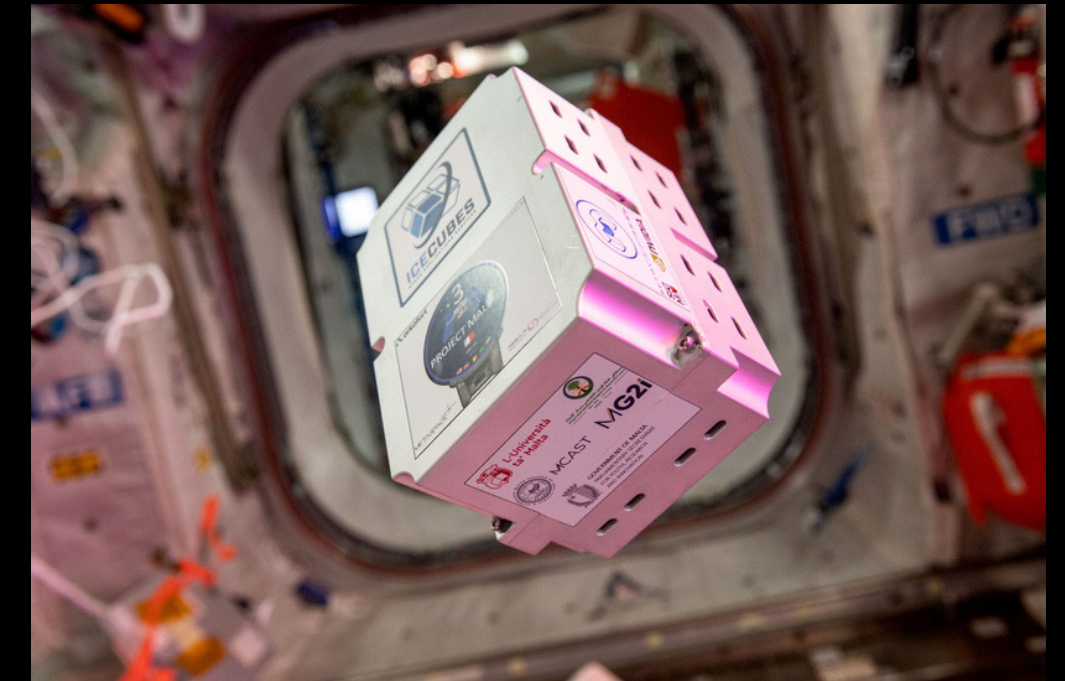
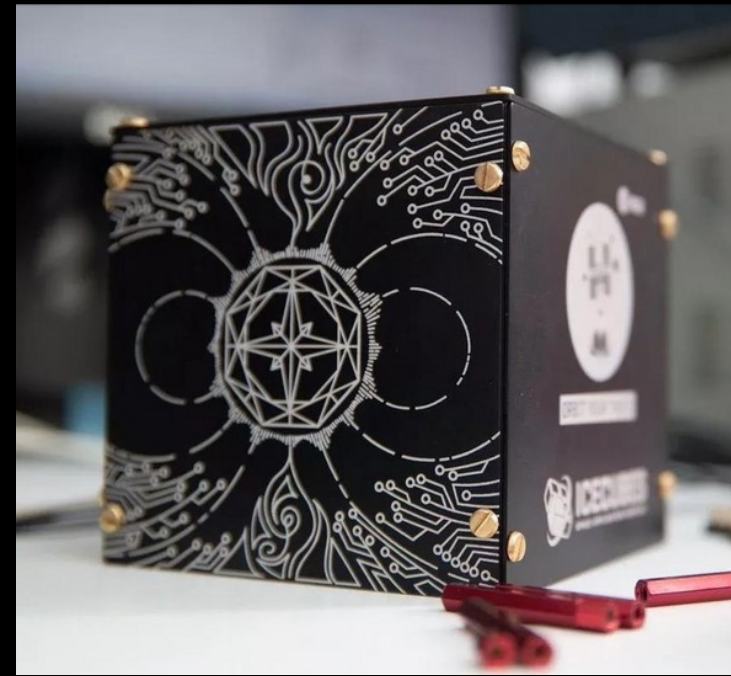
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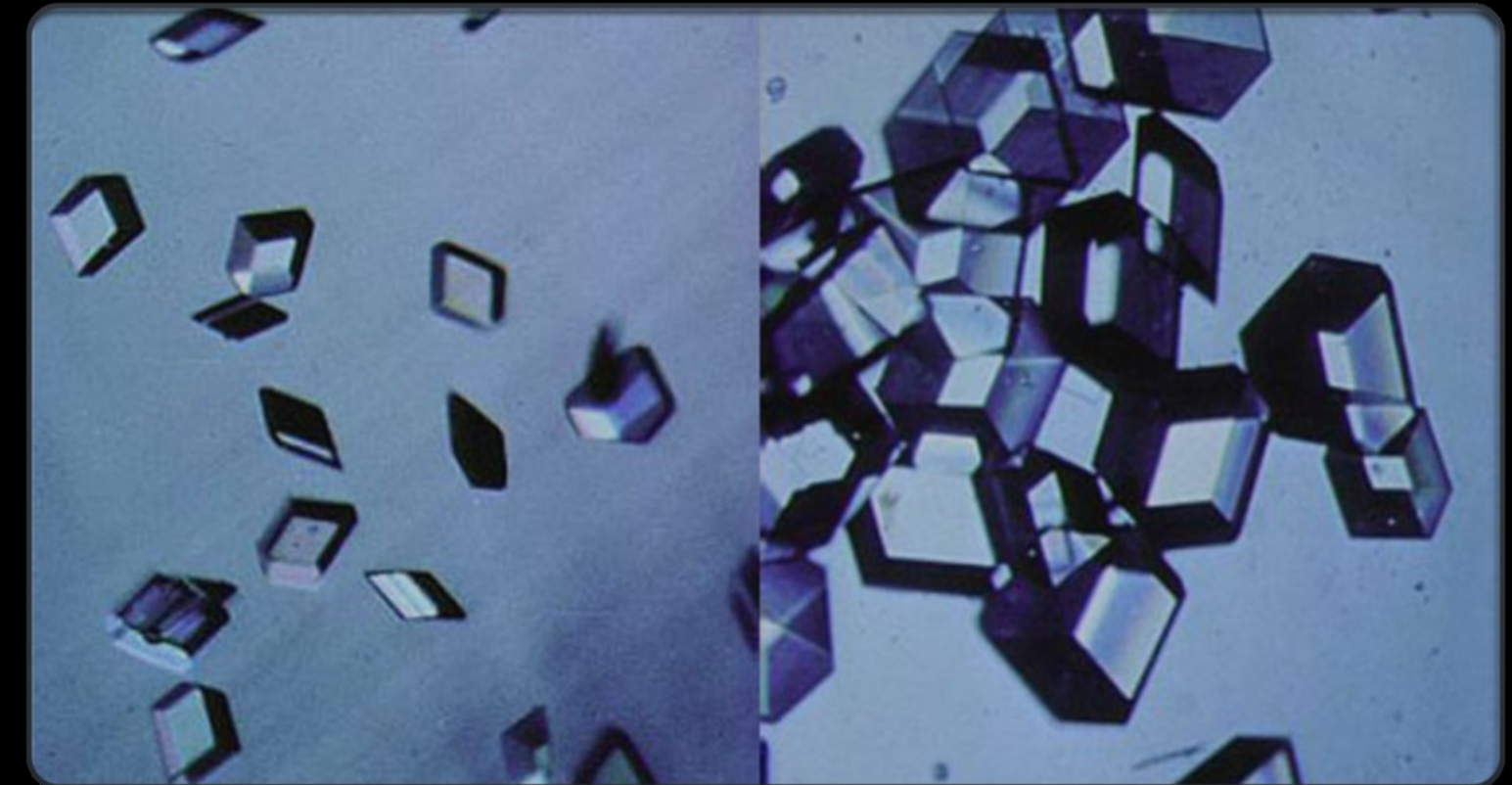
Kirara
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Growing crystals in microgravity



- Crystals of proteins or large molecules in space
- Growth of larger crystals
- Less imperfections of crystals
- Help to reveal the structure and function of these molecules more clearly
- Applications fields :
 - drug discovery / biotech
 - agrifood biotech / pests & diseases
 - electronics
 - materials science

Table 1. Overall evaluation of crystals based on individual metrics; all data, n = 507.

	Macromolecules/ Organics	Inorganics	Total
Larger	81% (n = 250)	64% (n = 90)	77% (n = 340)
Structurally better	73% (n = 170)	80% (n = 125)	76% (n = 295)
More uniform	88% (n = 237)	85% (n = 125)	87% (n = 362)
Improved resolution limit	81% (n = 177)	n/a	81% (n = 177)
Improved mosaicity	77% (n = 136)	n/a	77% (n = 136)

Microgravity Crystal Formation, Crystals 2024, 14, 12. <https://doi.org/10.3390/cryst14010012>