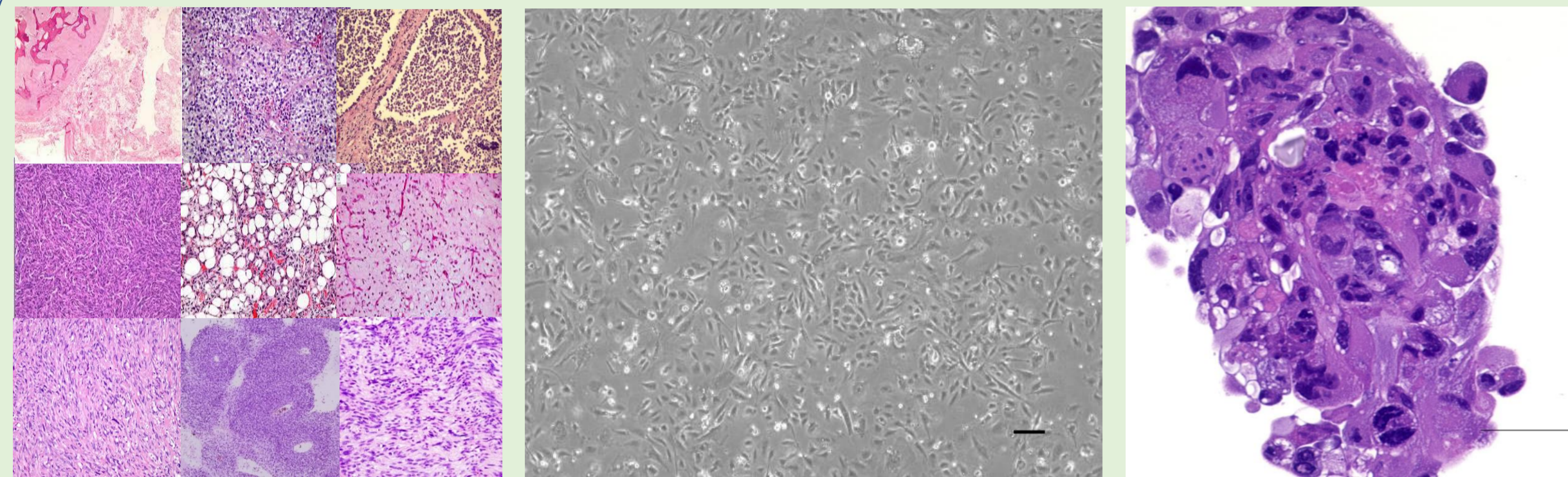


PATIENT-DERIVED SARCOMA MODELS TOWARDS NOVEL BIOLOGY AND TREATMENT

Patient-derived sarcoma models

Cell line, Organoids, and PDXs

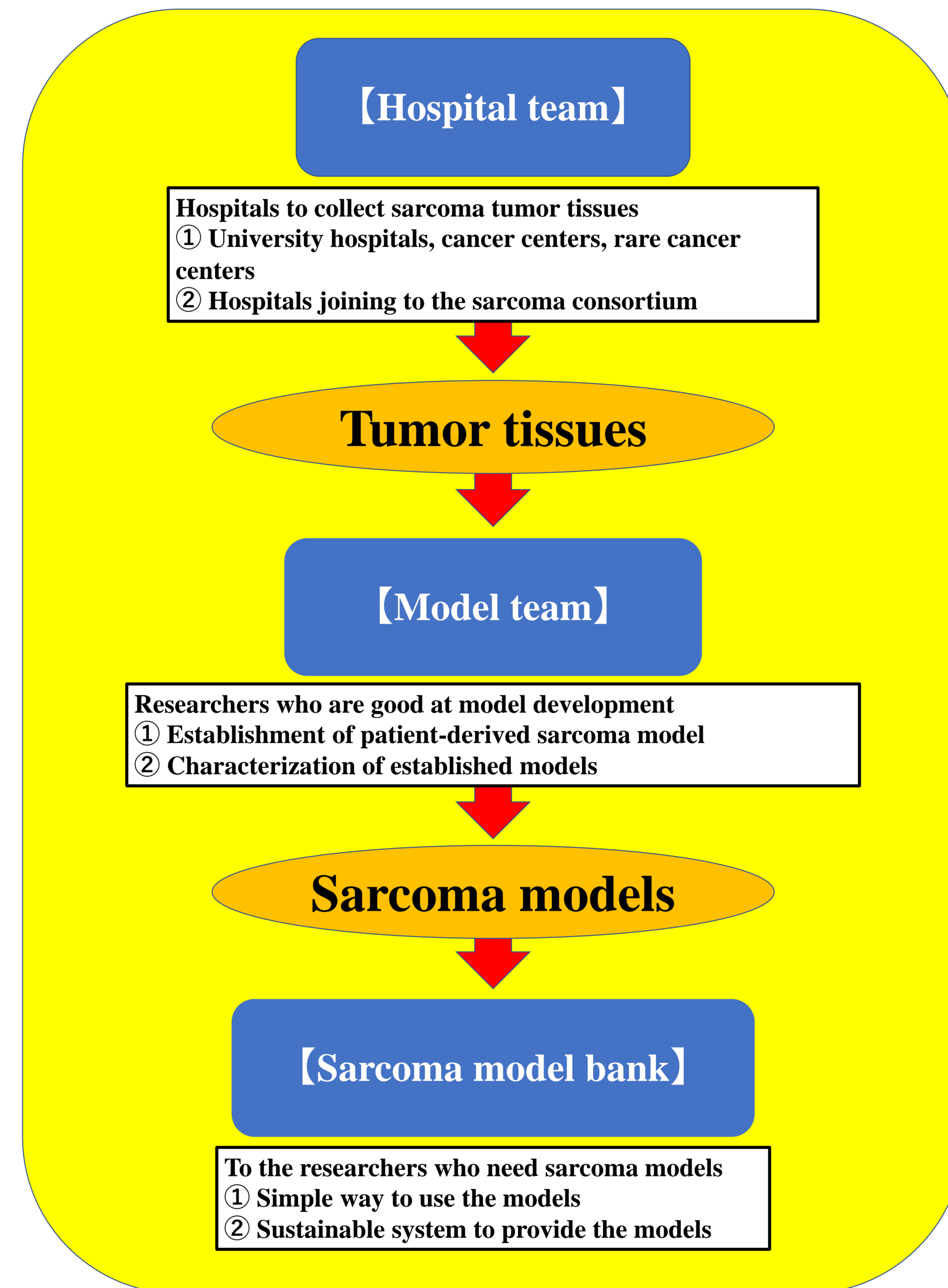


We established the models for the following histological subtypes

1. Alveolar soft part sarcoma
2. Chondrosarcoma
3. CIC-DUX4 sarcoma
4. Clear cell sarcoma
5. Dermatofibrosarcoma protuberans
6. Ewing's sarcoma
7. Giant cell tumor
8. Leiomyosarcoma
9. Liposarcoma
10. Low grade fibromyxoid sarcoma
11. Malignant peripheral nerve tumor
12. Myxofibrosarcoma
13. Osteosarcoma
14. Perineurioma
15. Pleomorphic sarcoma
16. Rhabdomyosarcoma
17. Solitary fibrous tumor
18. Synovial sarcoma
19. Undifferentiated pleomorphic sarcoma
20. Unclassifiable sarcoma

We will establish the models for all histological subtypes

Multi-institutional collaboration



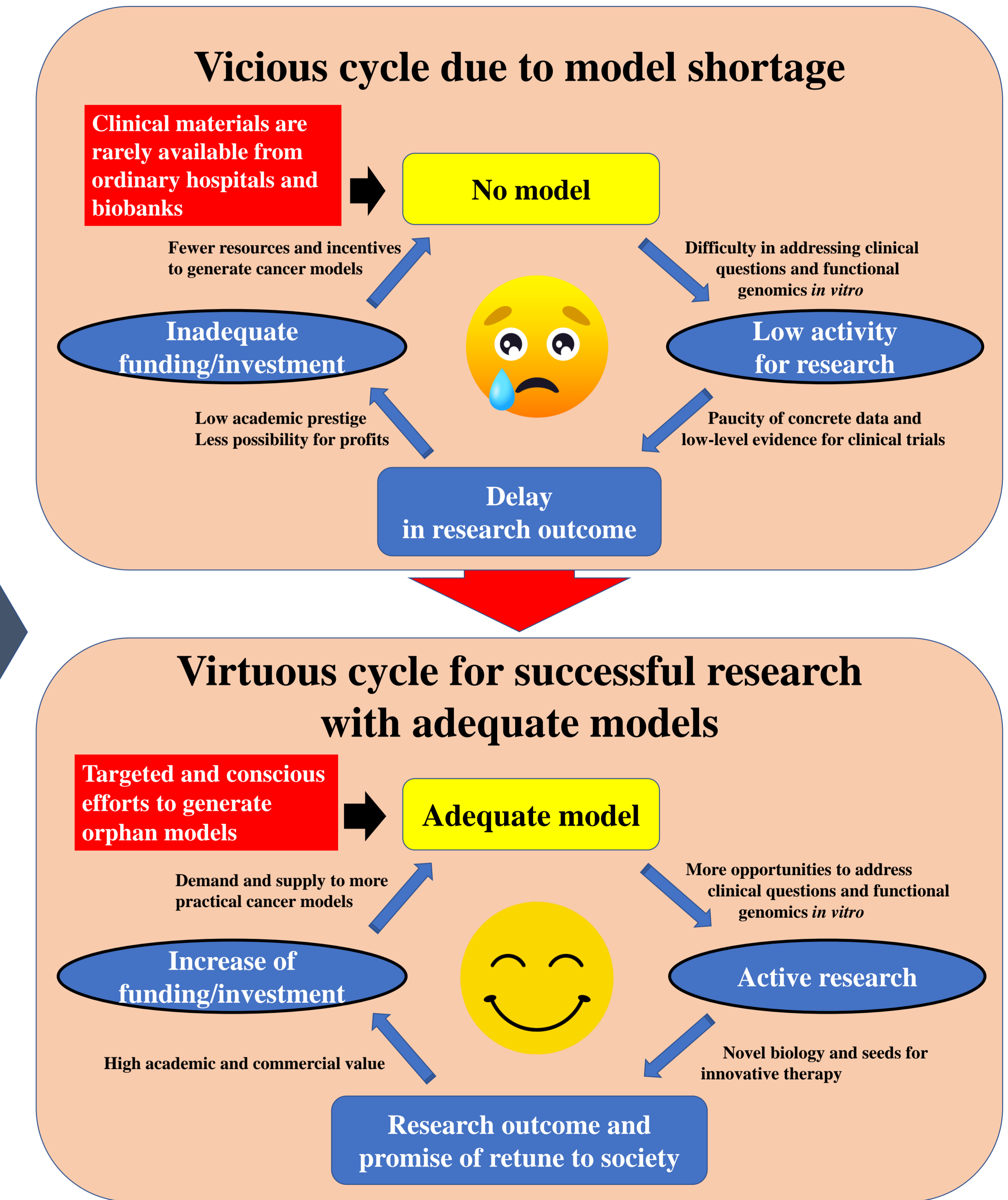
System to be created for the further model establishment

Multi-institutions for clinical materials

VS

Multi-institutions for model establishment

Our model will change the future of sarcoma research



Adequate model will change the future of sarcoma research

We have a vicious cycle due to model shortage in the sarcoma research. We can break it by generating adequate sarcoma models and share them in the research community.

Achievements

- We created the protocol to establish sarcoma cell lines efficiently.
- We established a substantial number of sarcoma models
- We deliver the established models to the researchers upon their requests

Issues to be addressed

- We need tumor tissues of very rare sarcomas
- We need the collaborations with experts for other model types