

Human Morphology,

OKAYAMA UNIVERSITY Graduate School of Medicine, Dentistry
and Pharmaceutical Sciences

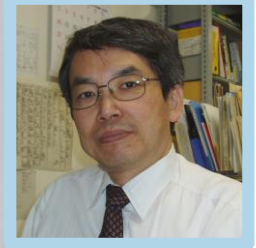
形機一如
成育

R. Ueda
2014

We are fascinated in the fine structures found in life. With the help of molecular biology and microscopic techniques, life may show you another aspect that nobody has ever seen before.

Our approach is based on the concept “形機一如 (Keiki-ichijo),” the structure and the function is inseparable. We believe this is the fundamental attitude to study medicine and that it will lead you to be an independent scientist in your future projects.

Come on board, the exploration of life starts here!

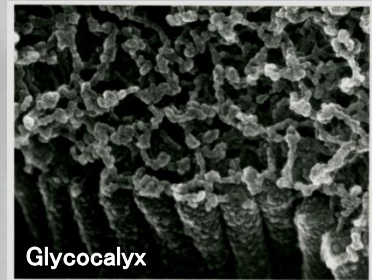


Our interests:

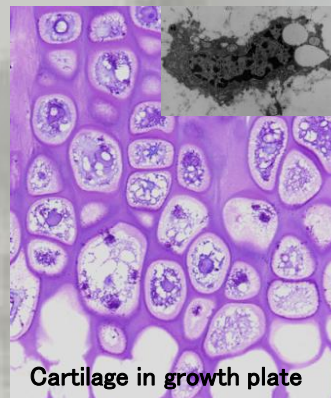
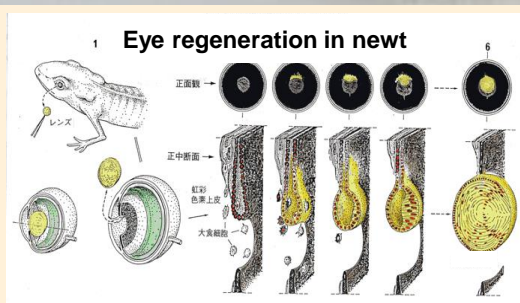
1. Analysis of blood microvascular architecture: a scanning electron microscopic study of corrosion casts.
2. Analysis of fine structure and organization of vessels
3. The roles of proteoglycans in the perineuronal nets in the central nervous system
4. The fine structure and function of glycocalyx
5. The structures and functions of basement membranes: molecular structure and its roles in development
6. Mechanism of cartilage destruction and its regulation
7. Regulation of synovial cell proliferation in inflammation
8. Developmental plasticity in mammalian ocular tissue
9. Molecular basis of tissue stem cells and cancer (stem) cells



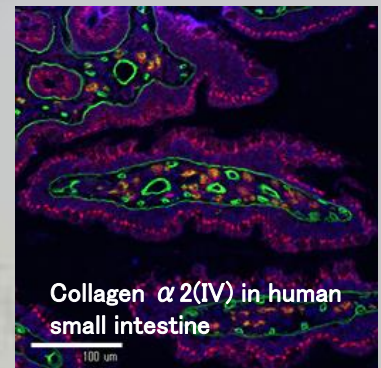
Drosophila larva



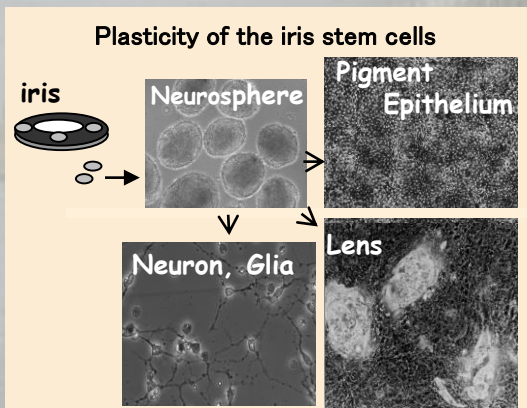
Glycocalyx



Cartilage in growth plate



Collagen α 2(IV) in human small intestine



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