

Werner W. Franke

List of Publications

(Verzeichnis der Veröffentlichungen)

1966

1. FRANKE, W.W. 1966.
Isolated nuclear membranes.
J. Cell Biol. **31**, 619-623.

1967

2. FRANKE, W.W. 1967.
Zur Feinstrukturierung isolierter Kernmembranen aus tierischen Zellen.
Z. Zellforsch. **80**, 585-593.
3. FRANKE, W.W. 1967.
Zur Feinstrukturierung isolierter Kernmembranen.
Thesis, University of Heidelberg, Germany.

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4. FRANKE, W.W., FALK, H. 1968.
Enzymatisch isolierte Cellulose-Fibrillen der Valonia-Zellwand.
Z. Naturforsch. **23b**, 272-274.
5. FALK, H., WUNDERLICH, F., FRANKE, W.W. 1968.
Microtubular structures in macronuclei of synchronously dividing *Tetrahymena pyriformis*.
J. Protozool. **15**, 776-780.
6. WUNDERLICH, F., FRANKE, W.W. 1968.
Structure of macronuclear envelopes of *Tetrahymena pyriformis* in the stationary phase of growth.
J. Cell Biol. **38**, 458-462.

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7. BROWN Jr., R.M., FRANKE, W.W., KLEINIG, H., FALK, H., SITTE, P. 1969.
Cellulosic wall component produced by the Golgi apparatus of *Pleurochrysis scherffellii*.
Science **166**, 894-896.
8. FRANKE, W.W., ERMEN, B. 1969.
Negative staining of plant slime cellulose: An examination of the elementary fibril concept.
Z. Naturforsch. **24b**, 918-922.
9. FRANKE, W.W., KARTENBECK, J. 1969.
Structure of nuclear membranes isolated from brain cells.
Experientia **25**, 396-398.

10. FRANKE, W.W., SCHINKO, W. 1969.
Nuclear shape in muscle cells.
J. Cell Biol. **42**, 326-331.
11. FRANKE, W.W., KRIEN, S., BROWN Jr., R.M. 1969.
Simultaneous glutaraldehyde-osmium tetroxide fixation with postosmication. An improved fixation procedure for electron microscopy of plant and animal cells.
Histochemie **19**, 162-164.
12. FRANKE, W.W., KRIEN, S., SAMEK, H. 1969.
Stability of cytoplasmic microtubules at low temperatures.
Naturwissenschaften **56**, 332-333.
13. SCHEER, U., FRANKE, W.W. 1969.
Negative staining and adenosine triphosphatase activity of annulate lamellae of newt oocytes.
J. Cell Biol. **42**, 519-533.
14. ZENTGRAF, H., DEUMLING, B., FRANKE, W.W. 1969.
Isolation and characterization of nuclei from bird erythrocytes.
Exp. Cell Res. **56**, 333-337.

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15. BROWN Jr., R.M., FRANKE, W.W., KLEINIG, H., FALK, H., SITTE, P. 1970.
Scale formation in chrysophycean algae. I. Cellulosic and noncellulosic wall components made by the Golgi apparatus.
J. Cell Biol **45**, 246-271.
16. COMES, P., FRANKE, W.W. 1970.
Composition, structure and function of HeLa cell nuclear envelope.
I. Structural data.
Z. Zellforsch. **107**, 240-248.
17. FRANKE, W.W. 1970.
Central dilations in maturing Golgi cisternae - a common structural feature among plant cells?
Planta (Berlin) **90**, 370-373.
18. FRANKE, W.W. 1970.
Nuclear pore flow rate. A characteristic for nucleocytoplasmic exchange of macromolecules and particles.
Naturwissenschaften **57**, 44-45.
19. FRANKE, W.W. 1970.
Flagellar rootlet attached to the nuclear envelope.
Naturwissenschaften **57**, 503-504.
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On the universality of nuclear pore complex structure.
Z. Zellforsch. **105**, 405-429.
21. FRANKE, W.W. 1970.
Attachment of muscle filaments to the outer membrane of the nuclear envelope.
Z. Zellforsch. **111**, 143-148.
22. FRANKE, W.W., DEUMLING, B., ERMEN, B., JARASCH, E.-D., KLEINIG, H. 1970.
Nuclear membranes from mammalian liver. I. Isolation procedure and general characterization.
J. Cell Biol **46**, 379-395.

23. FRANKE, W.W., FALK, H. 1970.
Appearance of nuclear pore complexes after Bernhard's staining procedure.
Histochemie **34**, 266-278.
24. FRANKE, W.W., SCHEER, U. 1970.
The ultrastructure of the nuclear envelope of amphibian oocytes: A reinvestigation. I. The mature oocyte.
J. Ultrastruct. Res. **30**, 288-316.
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J. Ultrastruct. Res. **30**, 317-327.

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A microtubular crystal associated with the Golgi field of *Pleurochrysis scherffellii*.
Planta **96**, 354-363.
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Relationship of nuclear membranes with filaments and microtubules.
Protoplasma **73**, 263-292.
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Cross-bridges between intramacronuclear microtubules and inner nuclear membrane.
Z. Naturforsch. **26b**, 626-627.
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Cytoplasmic microtubules linked to endoplasmic reticulum with cross-bridges.
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Cytobiologie **4**, 150-151.
31. FRANKE, W.W. 1971.
Membrane-microtubule-microfilament relationships in the ciliate pellicle.
Cytobiologie **4**, 307-316.
32. FRANKE, W.W., BROWN Jr., R.M., 1971.
Scale formation in chrysophycean algae. III. Negatively stained scales of the coccolithophorid *Hymenomonas*.
Arch. Microbiol. **77**, 12-19.
33. FRANKE, W.W., ECKERT, W. 1971.
Cytomembrane differentiation in a ciliate, *Tetrahymena pyriformis*. II. Bifacial cisternae and tubular formations.
Z. Zellforsch. **122**, 244-253.
34. FRANKE, W.W., KARTENBECK, J. 1971.
Outer mitochondrial membrane continuous with endoplasmic reticulum.
Protoplasma **73**, 35-41.

35. FRANKE, W.W., SCHEER, U. 1971.
Some structural differentiations in the HeLa cell: heavy bodies, annulate lamellae, and cote de maillet endoplasmic reticulum.
Cytobiologie **4**, 317-329.
36. FRANKE, W.W., ECKERT, W.A., KRIEN, S. 1971.
Cytoplasmic membrane differentiation in a ciliate, *Tetrahymena pyriformis*. I. Endoplasmic reticulum and dictyosomal equivalents.
Z. Zellforsch. **119**, 577-604.
37. FRANKE, W.W., KARTENBECK, J., DEUMLING, B. 1971.
Nuclear pore flow rates of ribonucleic acids in the mature rat hepatocyte.
Experientia **27**, 372-373.
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J. Cell Biol. **51**, 881-888.
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Synthesis and turnover of membrane proteins in rat liver: An examination of the membrane flow hypothesis.
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Dense cytoplasmic aggregates associated with Golgi apparatus cisternae in rat hepatocytes.
Protoplasma **72**, 49-53.
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In: *Advances in Anatomy, Embryology and Cell Biology*. Vol. **45**. Springer-Verlag, Berlin; pp. 1-55.
42. MORRÉ, D.J., FRANKE, W.W., DEUMLING, B., NYQUIST, S.E., OVTRACHT, L. 1971.
Golgi apparatus function in membrane flow and differentiation.
In: *Biomembranes*. Vol. **2** (L.A. Manson, ed.) Plenum Press, New York; pp. 95-104.
43. ZENTGRAF, H.W., DEUMLING, B., JARASCH, E.-D., FRANKE, W.W. 1971.
Nuclear membranes and plasma membranes from hen erythrocytes. I. Isolation characterization, and comparison.
J. Biol. Chem. **246**, 2986-2995.

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Hoppe Seyler's Z. Physiol. Chem. **353**, 287-297.
45. ECKERT, W., FRANKE, W.W., SCHEER, U. 1972.
Actinomycin D and the central granules in the nuclear pore complex: Thin sectioning versus negative staining.
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Nuclear membrane-attached DNA enriched in repetitive sequences.
Naturwissenschaften **59**, 37-38.
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Structural details of dictyosomal pores.
J. Ultrastruct. Res. **40**, 132-144.
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Inter- and intracisternal elements of the Golgi apparatus. A system of membrane-to-membrane cross-links.
Z. Zellforsch. **132**, 365-380.
50. FRANKE, W.W., SCHEER, U., FRITSCH, H. 1972.
Intranuclear and cytoplasmic annulate lamellae in plant cells.
J. Cell Biol **53**, 823-827.
51. FRANKE, W.W., STADLER, J., KRIEN, S. 1972.
Autoradiographic localization of colchicine-binding sites.
Beitr. Pathol. **146**, 289-291.
52. HERTH, W., FRANKE, W.W., STADLER, J., BITTIGER, H., KEILICH, G., BROWN Jr., R.M. 1972.
Further characterization of the alkali-stable material from the scales of *Pleurochrysis scherffellii*: a cellulosic glycoprotein.
Planta **105**, 79-92.
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Naturwissenschaften **59**, 38.
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The interphase distribution of satellite DNA-containing heterochromatin in mouse nuclei.
Chromosoma **39**, 443-456.
55. SCHEER, U., FRANKE, W.W. 1972.
Annulate lamellae in plant cells: Formation during microsporogenesis and pollen development in *Canna generalis* Bailey.
Planta **107**, 145-159.
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Nature New Biology, **237**, 237-238.
57. ZENTRGRAF, H., LAUBE-BOICHUT, E., FRANKE, W.W. 1972.
On the presence of hemoglobin in the avian erythrocyte nucleus.
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In: Biogenesis of Plant Cell Wall Polysaccharides (F.Loewus, ed.) Academic Press, New York; pp. 207-257.
59. DERKSEN, J., TRENDELENBURG, M.F., SCHEER, U., FRANKE, W.W. 1973.
Spread chromosomal nucleoli of chironomus salivary glands.
Exp. Cell Res. **80**, 476-479.
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Cell and lorica fine structure of the chrysomonad alga, *Dinobryon sertularia* Ehr.
(Chrysophyceae).
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62. FRANKE, W.W., DEUMLING, B., ZENTGRAF, H. 1973.
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Exp. Cell Res. **80**, 445-449.
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A. Morphologie. I. Cytologie. a) Allgemeine und molekulare Cytologie.
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Planta **110**, 159-164.
66. FRANKE, W.W., ZENTGRAF, H.W., SCHEER, U., KARTENBECK, J. 1973.
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Cytobiologie **7**, 89-100.
67. JARASCH, E.-D., REILLY, C.E., COMES, P., KARTENBECK, J., FRANKE, W.W. 1973.
Isolation and characterization of nuclear membranes from calf and rat thymus.
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Exp. Cell Res. **81**, 175-194.
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Transcription of ribosomal RNA cistrons. Correlation of morphological and biochemical data.
Exp. Cell Res. **80**, 175-190.
70. STADLER, J., FRANKE, W.W. 1973.
Nuclear membranes and plasma membranes from hen erythrocytes.
III. Localization of activities incorporating fatty acids into phospholipids.
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Structure, biochemistry and functions of the nuclear envelope.
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In: *Transport at the Cellular Level*. Vol. **28** (Symp. British Soc. Exp. Biol.) Cambridge, University Press; pp. 249-282.
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Protoplasma **82**, 249-282.
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Morphology of nucleolar cistrons in a plant cell, *Acetabularia mediterranea*.
Proc. Natl. Acad. Sci. USA **71**, 3626-3630.
91. WEBER, C., FRANKE, W.W., KARTENBECK, J. 1974.
Structure and biochemistry of phloem-proteins from *Cucurbita maxima*.
Exp. Cell Res. **87**, 79-106.
92. ZENTGRAF, H., FRANKE, W.W. 1974.
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Beitr. Path. **151**, 169-178.

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Morphology of the nucleo-cytoplasmic interactions during the development of *Acetabularia* cells.
II. The generative phase.
Protoplasma **84**, 223-256.
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Changes in fine structure and composition of macronuclei of *Tetrahymena pyriformis* induced by drug interfering with RNA synthesis and processing.
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Exogenous glycosphingolipids suppress growth rate of transformed and untransformed 3T3 mouse cells.
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100. RATHKE, P., SCHMID, E., FRANKE, W.W. 1975.
The action of the cytochalasin at the subcellular level. I. Effects and binding of cytochalasin B in cells of a line derived from a rat mammary adenocarcinoma and in rat erythrocytes.
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