

**A guide to the papers of Frederik B. (1916-1981) and Betsy G. (1912-2003) Bang
Marine Biological Laboratory
Woods Hole, MA 02543**

Archives of the Marine Biological Laboratory
7 MBL Street
Woods Hole, MA 02543
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MC-MBL-Bang
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Manuscript Collection
(Two 12"x15" boxes)

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BIOGRAPHICAL INFORMATION

Frederik Bang graduated from Johns Hopkins University with an A.B. in 1935 and from the JHU School of Medicine with an MD in 1939. Bang's association with Johns Hopkins University continued as he was chairman of the Department of Pathobiology from 1953-1981 and director of the JHU Centers for Medical Research Training in India and Bangladesh from 1961 to 1976.

Along with Jack Levin, also of JHU, Bang discovered and developed the *Limulus* Amebocyte Lysate test for bacteria. Based upon Bang's observations that horseshoe crab blood clots in the presence of gram-negative bacteria, the LAL test is used in pharmaceuticals and medical devices that come in contact with blood. Bang was a leader in the use of marine models in medical research, especially immunology.

Betsy Garrett married Frederik Bang in 1940. They met while he was a first-year medical student and she was studying medical illustration. She was a graduate of George Washington University and Johns Hopkins School of Medicine. Along with her husband, she conducted research on marine invertebrates and immunology. She also conducted research on birds. In addition to her scientific work, Mrs. Bang is well known for her illustration and translation talents. Among her more famous works are the *Anatomy of a Gorilla* for the American Museum of Natural History and translations of a series of Indian folk tales.

The Bangs had a long association with MBL, first arriving to conduct research in 1952. They continued coming to Woods Hole for many additional summers. They taught together in the MBL Courses Comparative Pathology of Marine Invertebrates (1978-81), and Fred Bang taught in Mariculture: Culture of Marine Invertebrates for Research Purposes (1979) and Biology of Parasitism (1980-81). Betsy Bang continued to teach in the Comparative Pathology of Marine Invertebrates course through 1983.

ARRANGEMENT

The Frederik and Betsy Bang collection consists of two boxes that were left in original order received. Loose materials received in manila envelopes were repackaged into archival folders.

SCOPE AND CONTENT

The collection includes papers, reprints, and student theses from approximately 1936-1981.

RELATED RESOURCES

Bound reprints by Frederik and Betsy Bang were cataloged and added to the Library's collected reprints collection.

FOLDER LIST

Box	Folder	Description	Date Range
1	1	Roscoff Notes, Summer 1961 spiral notebook	1961
1	2	Yuichi Majima reprints (Mie University School of Medicine) Images and photo Bang reprints	
1	3	Reprints Envelope labeled "Some (a few scarce) odd reprints, FBB-BEB"	
1	4	Reprints, notes, materials on Comparative Pathology of Marine Invertebrates Course (1979, 1980)	
1	5	Envelope labeled "International Pediatrics", Betsy Bang Spiral notebooks (1977-78) labeled Urns 1, V, VII Reprints, images	
1	6	Images, Betsy Bang	
2	1	"Ouvrages sur l'organe vomero-nasal", by Louis Jacobson	1948

Box	Folder	Description	Date Range
2	2	""Black Line' Diseased Star Corals, <i>Montastrea annularis</i> (E&S), from Venezuelan Reefs" MS Thesis by Talia Ramos-Flores	1981
2	3	"Evidence for Metal-Protein Complexes Precipitating around Blood Cells as the Mechanism of Extracellular Blood Clotting in the American Oyster, <i>Crassostrea virginica</i> (Gmelin) PhD thesis by Robert Stuart Brown	1975
2	4	"Hemocyte and Tissue Changes by Crude Oil in the Blue Mussel <i>Mytilus edulis</i> " MS Thesis by M. Geraldine McCormick-Ray	1983
2	5	"The Effects of Temperature and Various Substances on the Mucociliary Transport System of Nudibranchiata" MS Thesis by Prantika Som	1969
2	6	Miscellaneous reprints, Frederik B. Bang 1936-1956	1936-1956
2	7	Miscellaneous Reprints 1956-1963	1956-1963
2	8	Reprints, 1964-1968	1964-1968
2	9	Parasitology reprints, 1942-1955	1942-1955
2	10	Misc. loose reprints	