



Cancer Research

The Official Organ of the American Association for Cancer Research, Inc.

Volume 36 / Number 5 / May 1976

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P. Pour.
Richard J. Elkort, Alfred H. Handler, and David L. Williams.
- 1849 Re: G. E. Moore, S. B. Merrick, L. K. Woods, and N. M. Arabasz. A Human Squamous Cell Carcinoma Cell Line. *Cancer Res.*, 35: 2684-2688, 1975.
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G. E. Moore, S. B. Merrick, L. K. Woods, and N. M. Arabasz.
- 1851 Announcement.

Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

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Cancer Res 1976;36:1527-1851.

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