

rescue. "We find there are true 'natural killer cells,'" says Kim. Such cells are distinct from killer cells, he adds, and function without need for or benefit of antibody molecules. The natural killer cells develop early during an animal's life and thus may represent a primitive feature of the immune system that functions before other more sophisticated components are put into action. Kim and his colleagues are confident of this explanation because their mini pigs have been so scrupulously prevented from developing antibodies.

Making such observations does not come easily, Kim admits. The mini pig facility took three years of punctilious planning and building before it was ready to house animals four years ago. The animals' bland food undergoes sterilization before entering their closed world. The pigs' drinking water and even the wash water is sterilized and air is carefully filtered, making the Sloan-Kettering pigs certainly the most pampered, cleanest pigs anywhere. And they appear to be content, albeit somewhat bored.

"This pig model is a lot of hard work," Kim says. But he adds that he is "hooked" on it as a means of solving some of immunology's most intricate puzzles.

—Jeffrey L. Fox

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COSMOS, EARTH, AND MAN: A Short History of the Universe—Preston Cloud. The author, a polymath, relates for the educated layman the story of the co-development of earth's air, water, crustal rocks, climate and life in cosmic perspective as a vantage point from which to view the present state and future prospects of human beings. Originally published in hardback in 1978. Yale U Pr, 1980, 372 p., illus., paper, \$7.95.

THE HEALTHY HYPOCHONDRIAC: Recognizing, Understanding, and Living with Anxieties about our Health—Richard Ehrlich. Divides hypochondriacs according to the way they express their worries about their health and explains how children learn the responses and attitudes that tend to make them hypochondriacal as adults. Also discusses hypochondria as to the role it plays in different people's lives and society, together with a brief word on self-help. Saunders Pr(HR&W), 1980, 211 p., \$11.95, paper, \$6.95.

LEARNING TO THINK—E. R. Emmet. The author feels that the study of the basic principles of reasoning helps one to think effectively and reason logically. Exercises to test your ability to reason are provided throughout the book. Emerson, 1980, 172 p., \$8.95.

THE PURPOSIVE BRAIN—Ragnar Granit. Explains and integrates two major brain systems—the physiology of vision and the control of motor activity. Visual perception is seen as an input system, motor control as an output system with the goal-oriented brain mediating between the two systems. Originally published in hardback in 1977. MIT Pr, 1980, 244 p., illus., paper, \$5.95.

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THE WORLD OF LEARNING 1979-80, 30th ed. A two-volume directory of educational, cultural and scientific institutions around the world. Contains names, addresses and other details of over 24,000 academies, universities, colleges, libraries and archives, museums, art galleries, learned societies and research institutes and 150,000 people active in them. Europa Pub(Gale), 1979, 2061 p., \$105.

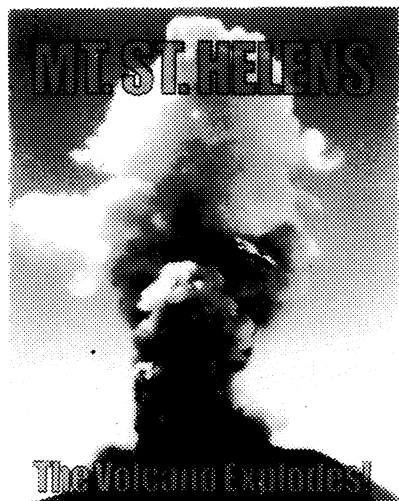
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