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- ROCKEFELLER Foundation, *Directory of Fellowships Awards 1917-1950*, New York, 1951 592
- L. VELLUZ (Editor), *Substances naturelles de synthèse*, volume 2 et volume 3, Paris, 1951 354
- C. H. WERKMAN ET P. W. WILSON (Editors), *Bacterial Physiology*, New York, 1951. 353