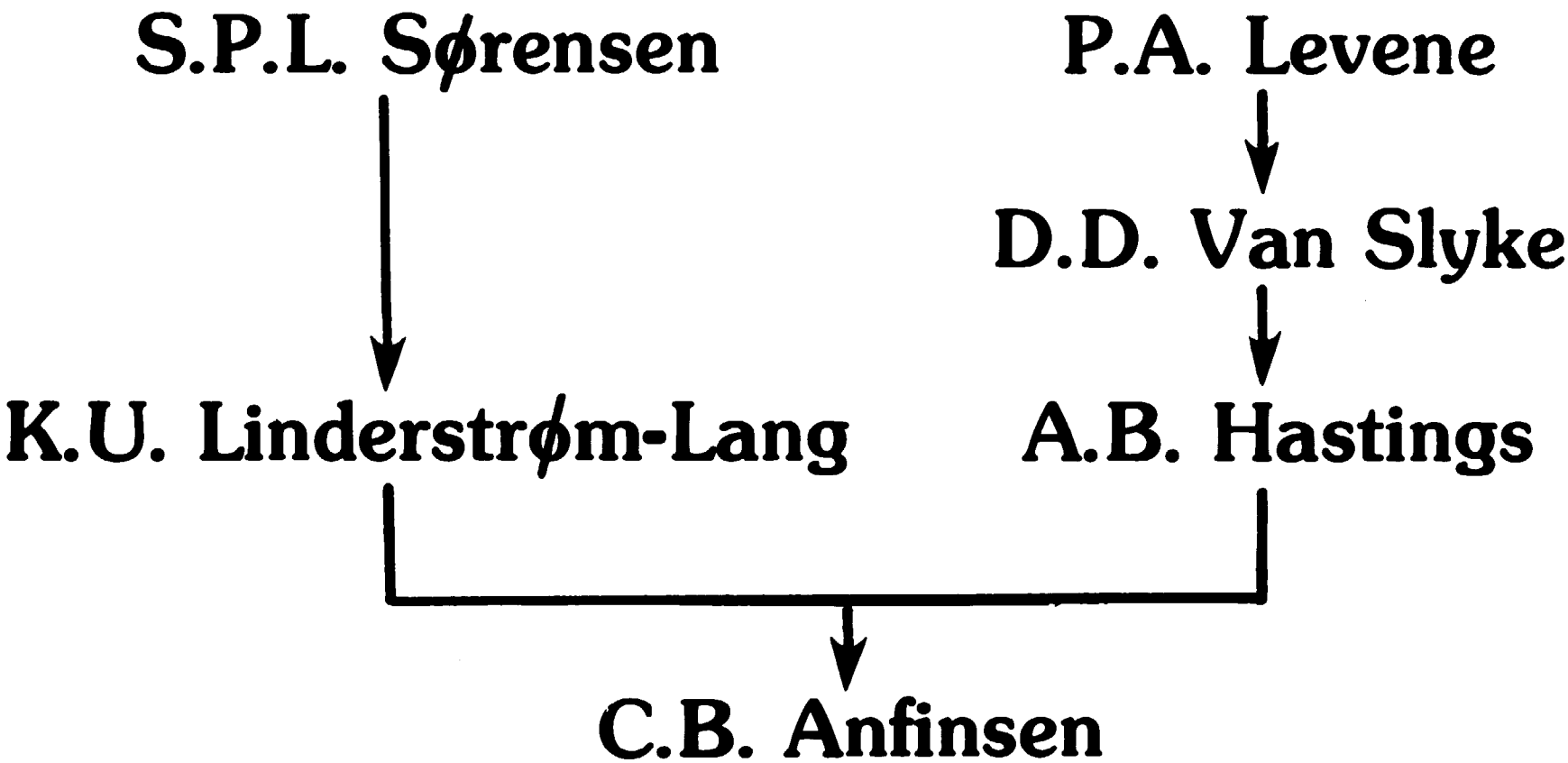SCIENTIFIC GENEALOGY