Nina G. Jablonski, Series Editor

The Edited Proceedings of a Paul L. and Phyllis Wattis Foundation Endowment Symposium Memoirs of the California Academy of Sciences Number 24

# THE ORIGIN AND DIVERSIFICATION OF LANGUAGE

EDITED BY NINA G. JABLONSKI AND LESLIE C. AIELLO



## The Origin and Diversification of Language

#### **Editors**

Nina G. Jablonski
California Academy of Sciences, San Francisco, California
Leslie C. Aiello
University College London, London, England
with the editorial assistance of Nancy Gee

Wattis Symposium Series in Anthropology

MEMOIRS OF THE CALIFORNIA ACADEMY OF SCIENCES

Number 24

San Francisco, California July 17, 1998

#### SCIENTIFIC PUBLICATION COMMITTEE:

Alan E. Leviton, *Editor* Katie Martin, *Managing Editor* 

©1998 by the California Academy of Sciences Golden Gate Park San Francisco, California 94118

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage or retrieval system, without permission in writing from the publisher.

Library of Congress Catalog Card Number: 98-71454

ISBN 0-940228-44-0 (cloth) ISBN 0-040228-46-7 (paper)

Printed in the United States of America by the Allen Press

Distributed by the University of California Press

### TABLE OF CONTENTS

Preface
Animal Communication and Human Language, by <i>Peter Marler</i>
The Foundations of Human Language, by Leslie C. Aiello 21
Comparative Aspects of Human Brain Evolution: Scaling, Energy Costs and Confounding Variables, by Robert D. Martin
Organization of Semantic Knowledge and the Origin of Words in the Brain, by <i>Alex Martin</i> 69
Neanderthals, Modern Humans and the Archaeological Evidence for Language, by Paul A. Mellars
The Evolution of the Human Language Faculty, by Steven Pinker
The Origin and Dispersal of Languages: Linguistic Evidence, by <i>Johanna Nichols</i>
The Origins of World Linguistic Diversity:  An Archaeological Perspective, by Colin Renfrew 171
Index