

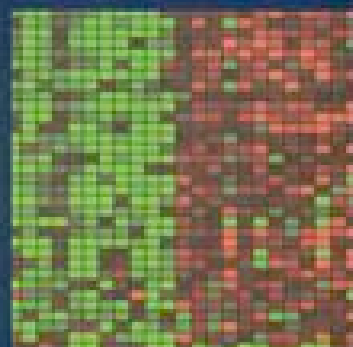
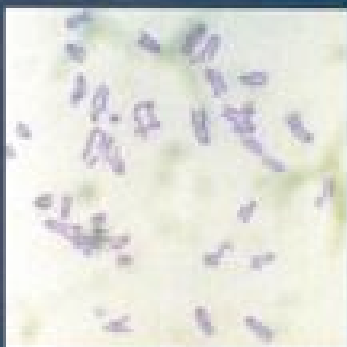
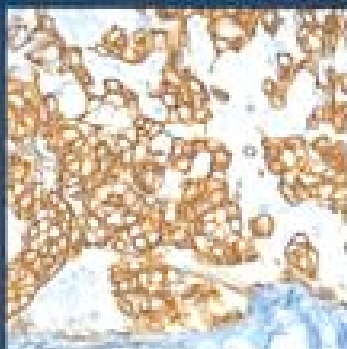
World Health Organization Classification of Tumours



Pathology & Genetics

Tumours of the Breast and Female Genital Organs

Edited by Fattaneh A. Tavassoli & Peter Devilee



Previous volumes in this series

Kleihues P., Cavenee W.K. (Eds.):
World Health Organization
Classification of Tumours.
Pathology and Genetics of
Tumours of the Nervous
System.
IARC Press: Lyon 2000
ISBN 92 83 22409 4

Hamilton S.R., Aaltonen L.A. (Eds.):
World Health Organization
Classification of Tumours.
Pathology and Genetics of
Tumours of the Digestive
System.
IARC Press: Lyon 2000
ISBN 92 83 22410 8

Jaffe E.S., Harris N.L., Stein H., Vardiman J.V. (Eds.):
World Health Organization
Classification of Tumours.
Pathology and Genetics of
Tumours of Haematopoietic
and Lymphoid Tissues.
IARC Press: Lyon 2001
ISBN 92 83 22411 6

Fletcher C.D.M., Unni K.K.,
Mertens F. (Eds.):
World Health Organization
Classification of Tumours.
Pathology and Genetics of
Tumours of Soft Tissue and
Bone.
IARC Press: Lyon 2002
ISBN 92 832 2413 2

This book and all other volumes of the series can be purchased from:

International Agency for Research on Cancer (IARC)

IARC Press
150 Cours Albert Thomas
69008 Lyon (France)
Tel. +33 4 72 73 85 15
Fax +33 4 72 73 83 02
press@iarc.fr

IARC Press
1775 K Street, NW, Suite 480
Washington, DC 20006 (USA)
Toll-free order line: 877 WHO-IARC
Fax (202) 223 1782
iarcpress@who.int

World Health Organization (WHO)

WHO Marketing and Dissemination
1211 Geneva (Switzerland)
Tel. +41 22 791 2476
Fax +41 22 791 4857
bookorders@who.ch

WHO Publications Center
Albany, NY 12210 (USA)
Tel. (518) 436 9686
Fax (518) 436 7433
qcorp@compuserve.com

Oxford University Press (OUP)

OUP Oxford (UK)
Tel. +44 1536 454534
24 hr. Hotline:
Tel. +44 1 536 74 17 27
Fax +44 1 865 26 77 82
book.orders@oup.co.uk

WHO Blue Books on the web:

www.iarc.fr/who-bluebooks



World Health Organization Classification of Tumours

WHO



OMS

International Agency for Research on Cancer (IARC)

Pathology and Genetics of Tumours of the Breast and Female Genital Organs

Edited by

Fattaneh A. Tavassoli

Peter Devilee

IARC*Press*

Lyon, 2003

World Health Organization Classification of Tumours

Series Editors Paul Kleihues, M.D.
Leslie H. Sobin, M.D.

Pathology and Genetics of Tumours of the Breast and Female Genital Organs

Editors Fattaneh A. Tavassoli, M.D.
Peter Devilee, Ph.D.

Coordinating Editors Lawrence M. Roth, M.D.
Rosemary Millis, M.D.

Editorial Assistants Isabelle Forcier
Christine Zorian

Layout Lauren A. Hunter
Sibylle Söring
Pascale Dia

Illustrations Georges Mollon
Lauren A. Hunter

Printed by Druckhaus Tecklenborg
48565 Steinfurt, Germany

Publisher IARC*Press*
International Agency for
Research on Cancer (IARC)
69008 Lyon, France

This volume was produced in collaboration with the
International Academy of Pathology (IAP)

The WHO Classification of Tumours of the Breast and Female Genital Organs
presented in this book reflects the views of Working Groups that convened for
Editorial and Consensus Conferences in Lyon, France,
January 12-16 and March 16-20, 2002.

Members of the Working Groups are indicated
in the List of Contributors on page 365

*The Working Group on Gynaecological Tumours greatly
appreciates the participation of, and guidance by
Dr. Robert E. Scully, Harvard Medical School*

Published by IARC Press, International Agency for Research on Cancer,
150 cours Albert Thomas, F-69008 Lyon, France

© International Agency for Research on Cancer, 2003

Publications of the World Health Organization enjoy copyright protection in
accordance with the provisions of Protocol 2 of the Universal Copyright Convention.
All rights reserved.

The International Agency for Research on Cancer welcomes
requests for permission to reproduce or translate its publications, in part or in full.
Requests for permission to reproduce figures or charts from this publication should be directed to
the respective contributor (see section Source of Charts and Photographs).

The designations used and the presentation of the material in this publication do not imply the
expression of any opinion whatsoever on the part of the Secretariat of the
World Health Organization concerning the legal status of any country, territory, city,
or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

The mention of specific companies or of certain manufacturers' products does not imply
that they are endorsed or recommended by the World Health Organization in preference to others
of a similar nature that are not mentioned. Errors and omissions excepted,
the names of proprietary products are distinguished by initial capital letters.

The authors alone are responsible for the views expressed in this publication.

Enquiries should be addressed to the
Communications Unit, International Agency for Research on Cancer, 69008 Lyon, France,
which will provide the latest information on any changes made to the text and plans for new editions.

Format for bibliographic citations:

Tavassoli F.A., Devilee P. (Eds.): World Health Organization Classification of
Tumours. Pathology and Genetics of Tumours of the Breast
and Female Genital Organs. IARC Press: Lyon 2003

IARC Library Cataloguing in Publication Data

Pathology and genetics of tumours of the breast and female genital organs /
editors, Fattaneh A. Tavassoli, Peter Devilee.

(World Health Organization classification of tumours ; 5)

1. Breast Neoplasms—genetics. 2. Breast Neoplasms—pathology
3. Genital Neoplasms, Female—genetics 4. Genital Neoplasms, Female—pathology
I. Tavassoli, Fattaneh A. II. Devilee, Peter III. Series

ISBN 92 832 2412 4

(NLM Classification W 1)