

Fonti iconografiche

Capitolo 1

Apertura (in alto, Ant colony, eggs): Dr. Sanford D. Porter; (in basso, a sinistra Mound): S.B. Vinson–TAMU; (in basso, al centro Arm with ant stings): Texas Dept. of Agriculture; 1.1 (Batterio): Dr. Dennis Kunkel/Phototake; (*Paramecium*): M. Abbey/Visuals Unlimited; (Spugnola): Royalty-Free Corbis; (Girasole): Dave Thompson/Life File/Getty Images; (Oca delle nevi): Charles Bush Photography; 1.3A (sinistra): Eye of Science/Photo Researchers, Inc.; 1.3A (destra): SPL/Photo Researchers, Inc.; 1.3B: Runk/Schoenberger/Grant Heilman Photography; 1.3C: George D. Lepp/Corbis; 1.3D: John Cancalosi/Peter Arnold, Inc.; 1.4A: Ralph Robinson/Visuals Unlimited; 1.4B: A.B. Dowsett/SPL/Photo Researchers, Inc.; 1.4C (*Paramecium*): Michael Abby/Visuals Unlimited; (Passiflora): Pat Pendarvis; (Fungo): Rob Planck/Tom Stack; (Volpe): Royalty-Free/Corbis; 1.6: Courtesy Leica Microsystems Inc.; 1.7A (all): Courtesy Jim Bidlack; 1.7B: Dr. Jeremy Burgess/Photo Researchers, Inc.

Capitolo 2

Apertura (Earth): Royalty-Free/Corbis; (Waterfall): Scenics of America/PhotoLink/Getty Images; (Fertilization): Nestle/Petit Format/Photo Researchers, Inc.; (Planets): IAU/Martin Kommesser/Handout/epa/ Corbis; (Embryo): Lennart Nilsson, "A Child is Born" 1990 Delacorte Press, p. 85; 2.1: Gunter Ziesler/Peter Arnold, Inc.; 2.4 (Cristalli): Charles M. Falco/Photo Researchers, Inc.; 2.4 (Sale): Tony Freeman/PhotoEdit; 2.8: Claude Nuridsany & Marie Perennou/Photo Researchers, Inc.; 2.9: Grant Taylor/Stone/Getty Images; 2.16 (Smokestacks): Charles O'Rear/Corbis; (Statue): Ray Pfortner/Peter Arnold, Inc.; (Forest): Frederica Georgia/Photo Researchers, Inc.; (Lake): Roger Evans/Photo Researchers, Inc.

Capitolo 3

Apertura (Strawberries): Royalty-Free/Corbis; (Raspberries, Pineapple): C Squared Studios/Getty Images; (Fruit): Maximilian Stock Ltd./Photo Researchers, Inc.; (Vegetables): Photolink/Getty Images; (Flowers): Adam Jones/Photo Researchers, Inc.; 3.1 (Cactus): Brand X Pictures/ PunchStock; (Granchio): Ingram PublishingAlamy; (*Bacterium*): H. Pol/CNRI/SPL/Photo Researchers, Inc.; 3.2B (Uomo): Royalty-Free/Corbis; (Donna): Royalty-Free/Corbis; 3.3A: The McGraw Hill Companies, Inc./John Thoeming, photographer; 3.4A: Steve Bloom/Taxi/Getty; 3.5 (Glicogeno): Don W. Fawcett/Photo Researchers, Inc.; (Amido): Jeremy Burgess/SPL/Photo Researchers, Inc.; (Cellulosa): Science Source/J.D. Litvay/Visuals Unlimited; 3.7: Das Fotoarchiv/Peter Arnold, Inc.

Capitolo 4

Apertura (Hooke's sketches): Science VU/Zeiss/Visuals Unlimited; (Bacteria): David Scharf/SPL/Photo Researchers, Inc.; (*Euglena*): T. E. Adams/Visuals Unlimited; (Root cells): Eye of Science/Photo Researchers, Inc.; (Nerve cells): Dr. Dennis Kunkel/Visuals Unlimited; 4.1A (in alto): Geoff Bryant/Photo Researches, Inc.; (in basso): Courtesy Ray F. Evert/University of Wisconsin Madison; 4.1B (in alto): Barbara J. Miller/Biological Photo Service; (in basso): Courtesy O. Sabatakou and E. Xylouri-Frangiadaki; 4.3 (in alto, LM): Robert Brons/Biological Photo Service; (al centro, TEM): M. Schliwa/Visuals Unlimited; (in basso, SEM): Kessel/Shih/Peter Arnold, Inc.; 4.6 (in basso a sinistra, pori nucleari): Courtesy Ron Milligan/Scripps Research Institute; (in alto a destra, Freeze-fracture): Courtesy E.G. Pollock; 4.8: R. Bolender & D. Fawcett/Visuals Unlimited; 4.9: Courtesy Charles Flickinger, from Journal of Cell Biology 49:221-226, 1971, Fig. 1 page 224; 4.11: Courtesy Daniel S. Friend; 4.13: Newcomb/Wergin/Biological Photo Service; 4.15: Dr. Jeremy Burgess/Photo Researchers, Inc.; 4.16: Courtesy Dr. Keith Porter; 4.17: Dr. Fred Hossler/Visuals Unlimited; 4.18 (Actina): M. Schliwa/Visuals Unlimited; (Filamenti Intermedi): K.G. Murti/Visuals Unlimited; (Microtubuli): K.G. Murti/Visuals Unlimited; 4.19:(Spermatozoo): Y. Nikas/Photo Researchers, Inc.; (Flagello,Corpo basalw): William L. Dentler/Biological Photo Service.

Capitolo 5

Apertura (Hot gases): John Chumack/Photo Researchers, Inc.; (Cheetah chasing impala): Steve Bloom/Getty Images; (Cornfield): Teri Dixon/Getty Images; (Seniors): Horizon International Images Limited/Alamy; (Cheetah with kill): PhotoAlto/PunchStock; 5.1: GoodShoot / SuperStock RF; 5.3B: Darwin Dale/Photo Researchers, Inc.; 5.7B: James Watt/Visuals Unlimited; 5.7C: Creatas/PunchStock.

Capitolo 6

Apertura (Dividing cancer cell): SPL/Photo Researchers, Inc.; (Lung cancer tumor): Moredun Scientific/Photo Researchers, Inc.; (Colon, pancreatic, and cervical cancer cells): Steve Gschmeissner/Photo Researchers, Inc.; 6.1A(Mamma, figlia): Royalty-Free/Corbis; 6.1A (Geco): Kevin Hanley/Animals Animals Earth Scenes; 6.1A (Rigenerazione): McDonald Wildlife Photography/Animals Animals Earth Scenes; 6.1B: (Famiglia): BananaStock/PunchStock; 8.1B(Ameba): Biophoto Associates/Photo Researchers, Inc.; 6.2 (tutte): Stanley C. Holt/Biological Photo Service; 6.3B: Prof. P. Motta & D. Palermo/Photo Researchers, Inc.; 8.4A: Andrew Syred/Photo Researchers, Inc.; 6.5 (in alto - Interfase, Profase, Metafase, Anafase, Telofase): Ed Reschke; (Prometafase): Michael Abbey/Photo Researchers, Inc.; 6.5 (in basso -

(Interfase, Tarda Profase): Ed Reschke; (Profase, Metafase, Anafase): R. Calentine/Visuals Unlimited; (Telofase): Jack M. Bostrack/Visuals Unlimited; 6.6A (entrambe): R.G. Kessel and C.Y. Shih, "Scanning Electron Microscopy in Biology: A Students' Atlas on Biological Organization," 1974 Springer-Verlag, New York; 6.6B: B.A. Palevitz & E.H. Newcomb/Biological Photo Service; 6.9: Breast Scanning Unit, Kings College Hospital, London/SPL/Photo Researchers, Inc. 6.10: image100/Alamy; 6.11: CNRI/SPL/Photo Researchers, Inc.; 6.12A: Courtesy of Dr. D. Von Wettstein; 6.14A (tutte): Ed Reschke; 6.14B (tutte): Ed Reschke.

Capitolo 7

Apertura (German shepherd running): J. M. Labat/F. Roquette/Peter Arnold, Inc.; (German shepherd in cart): Cecile Podlaseck; (Collie) Thorsten Milse/Robert Harding World Imagery/Corbis; (Bulldog): Photodisc/Getty Images; 7.1: National Geographic Image Sales; 7.9: Pat Pendarvis; 9.10A(both): Courtesy Jane S. Paulsen/University of Iowa; 7.10B (entrambe): Steve Uzzell; 7.11AB (entrambe): Brand X/SuperStock RF; 7.14B mangostock/shutterstock; 7.15A (Atleta): AP/Wide World Photos; 7.15A (Difetti del tessuto connettivo): Ed Reschke; 7.15B: Dr. Stanley Flegler/Getty Images; 7.20: Courtesy of the Archives, California Institute of Technology.

Capitolo 8

Apertura (Bat): Merlin D. Tuttle/Bat Conservation International; (Bee, orchid): Helmut Presser; (Butterfly): Robert Maier/Animals/Animals/Earth Scenes; (Moth): Andrew Darrington/Alamy; (Hummingbird): Anthony Mercieca/Photo Researchers, Inc.; 8.1A(Darwin): Carolina Biological/Visuals Unlimited; 8.1B (Rhea): Wolfgang Kaehler/Corbis; (Deserto): C. Luiz Claudio Marigo/Peter Arnold; (Strati rocciosi): Gary J. James/Biological Photo Service; (Foresta pluviale): Charles Benes/Index Stock Imagery; (Iguana): Galen Rowell/Corbis; (Fringuello): D. Parer & E. Parer-Cook/Ardea; 8.2A: James H. Bailey/National Geographic Image Sales; 8.2B: Daryl Balfour/Photo Researchers, Inc.; 8.3A (entrambe): Courtesy of Lyudmilla N. Trut, Institute of Cytology & Genetics, Siberian Dept. of the Russian Academy of Sciences; 8.3B (Cavolo cinese, cavolini di Bruxelles, cavolo rapa): Courtesy W. Atlee Burpee Company; (Senape): Jack Wilburn/Animals Animals/Earth Scenes; 8.4: Comstock; 8.5A (Fringuello terricolo): Adrienne T. Gibson/Animals Animals/Earth Scenes; (Fringuello cantore): Joe McDonald/Animals Animals/Earth Scenes; (Fringuello dei cactus): Leonard Lee Rue/Animals Animals/Earth Scenes; 8.6A: Richard T. Nowitz/Corbis; 8.7B: Louis Psihoyos/Corbis; 8.7A (Fossile): Jean-Claude Carton/Bruce Coleman Inc.; (Arto): Joe Tucciarone; 8.7B: J.G.M. Thewissen, <http://darla.neoucom/edu/DEPTS/ANAT/Thewissen/>; 8.8B (Maiale, pollo): Carolina Biological Supply/Phototake.

Capitolo 9

Apertura (Fossilized nest, *Maiaosaura* fossil): Courtesy Museum of the Rockies; (Painting): Joe Tucciarone/Photo Researchers, Inc.; 9.7A: Dr. Hans Gelderblom/Visuals Unlimited; 9.7B: K.G. Murti/Visuals Unlimited; Courtesy Dr. David Dilcher, Florida Museum of Natural History, University of Florida; 9.10A (Bacillus): Ralph A. Slepecky/Visuals Unlimited; (*E. coli*): 9.10A: Harley W. Moon, U.S. Dept. of Agriculture; 9.10B (Cocchi): Dr. David M. Phillips/Visuals Unlimited; (Spirilli): Dr. Gary D. Gaugler/Phototake; (Bacilli): Dr. Dennis Kunkel/Visuals Unlimited; 9.11A: CNRI/SPL/Photo Researchers, Inc.; 9.11B: Alfred Pasiaka/SPL/Photo Researchers, Inc.; 9.12A: Michael P. Gadowski/Photo Researchers, Inc.; 9.12B: Science VU/Visuals Unlimited; 9.13 (*Gloeocapsa*): Runk/Schoenberger/Grant Heilman Photography; (*Anabaena*): Philip Sze/Visuals Unlimited; (*Oscillatoria*): Tom Adams/Visuals Unlimited; 9.14A (Palude): Susan Rosenthal/Corbis; (Riquadro): Ralph Robinson/Visuals Unlimited; 9.14B (Riquadro): From J.T. Staley, et al., *Bergey's Manual of Systematic Bacteriology*, Vol. 13, 1989 Williams and Wilkins Co., Baltimore. Prepared by A.L. Usted Photography. Dept. of Biophysics, Norwegian Institute of Technology; 9.15B (Lago): John Sohlden/Visuals Unlimited; 9.15C (Geysers): Jeff Lepore/Photo Researchers, Inc.; (Riquadro): Courtesy Dennis W. Grogan, University of Cincinnati; 9.16A (Micrografia): Eye of Science/Photo Researchers, Inc.; 9.16B (Water treatment plant): Vol. 29/PhotoDisc/Getty Images; (Bioremediation): Ken Graham/Accent Alaska; (Rocks): Science VU/Visuals Unlimited;

Capitolo 10

Apertura (Backlit trap): Jerome Wexler/Visuals Unlimited; (Flower): Barry Rice/Visuals Unlimited; (Open trap): David Sieren/Visuals Unlimited; (Sundew plant): Barry Rice/Visuals Unlimited; (Sundew leaf) Dr. Jeremy Burgess/Photo Researchers, Inc.; (Pitcher plants): Milton H. Tierney, Jr./Visuals Unlimited; (Pitcher plant open): David Sieren/Visuals Unlimited; (Pitcher plant flowers): Jeffrey Lepore/Photo Researchers, Inc.; 10.2 (*Synura*): Dr. Ronald W. Hoham; (*Nonionina*): Astrid & Hanns-Frieder Michler/Photo Researchers, Inc.; (*Blepharisma*): Eric Grave/Photo Researchers, Inc.; (*Bossiella*): Daniel V. Gotschall/Visuals Unlimited; (Diatomee): M.I. Walker/Photo Researchers, Inc.; (*Ceratium*): D.P. Wilson/Photo Researchers, Inc.; (*Licmorpha*): Biophoto Associates/Photo Researchers, Inc.; (*Acetabularia*): Linda L. Sims/Visuals Unlimited; (Ameba): Michael Abbey/Visuals Unlimited; 10.3A Michael Abbey/Visuals Unlimited; 10.3C (Teche di radiolari): Dr. Richard Kessel & Dr. Gene Shih/Visuals Unlimited; 10.3E Dr. Gopal Murti/Photo Researchers, Inc.; 10.4A (*Physarum*): CABISCO/Visuals Unlimited; (*Hemitrichia*): V. Duran/Visuals Unlimited; 10.4B: James Richardson/Visuals Unlimited; 10.5 (in alto a sinistra): Dr. Ann Smith/Photo Researchers, Inc.; ; 10.5B: Walter Hodge/Peter Arnold, Inc.; 10.5C: D.P. Wilson/Eric & David Hosking/Photo

Researchers, Inc.; 10.6B: M.I. Walker/Science Source/Photo Researchers, Inc.; 10.6C (in alto): John D. Cunningham/Visuals Unlimited; 10.6C (in basso a destra): Cabisco/Visuals Unlimited; 10.6D (*Ulva*): William E. Ferguson; 10.6E (Individui di *Chara*): Dr. John D. Cunningham/Visuals Unlimited; 10.6E (Singolo individuo di *Chara*): Kingsley Stern. 10.7A (Muschi micrografia): Ed Reschke; (Muschi): John Shaw/Tom Stack & Associates; (Felci): William E. Ferguson; (Felci micrografia): Courtesy Graham Kent; (Pigna): Kent Dannen/Photo Researchers, Inc.; (Pinolo): Courtesy Graham Kent; (Fiori di ciliegio): E. Webber/Visuals Unlimited; (Ciliegie): Richard Shiell/Earth Scenes/Animals Animals; 10.8B (Archeogonio): Triarch/Visuals Unlimited; (Ovulo nelle piante): Ed Reschke; 10.8C (Sezione di foglia): Kingsley Stern; (Superficie foliare): Andrew Syred/SPL/Photo Researchers, Inc.; 10.9 (Antocerota): Barry Runk/Stan/Grant Heilman Photography; (Gametofito di epatica): Hal Horwitz/Corbis; (Gametofito di muschio): Steven P. Lynch; 10.10A: Steve Solum/Bruce Coleman, Inc.; 10.10B (*Osmunda cinnamomea*): James Strawser/Grant Heilman Photography; (*Campyloneurum scolopendrium*): Walter H. Hodge/Peter Arnold, Inc.; (*Adiantum pedatum*): Larry Lefever/Jane Grushow/Grant Heilman Photography; 10.11 (Cicadofite): D. Cavagnaro/Visuals Unlimited; (Ginkgofite): Kingsley Stern (*Ephedra*): Virginia Weinland/Photo Researchers, Inc.; (*Picea*): D. Giannechini/Photo Researchers, Inc.; 10.12: Sinclair Stammers/SPL/Photo Researchers, Inc.; 10.13B (Cactus): Patti Murray/Animals Animals/Earth Scenes; (Viticcio): Michael Gadomski/Photo Researchers, Inc; 10.13C (Radice fascicolata): Ed Degginger/Color Pic; (Radice a fittone): G.R. Roberts/Natural Sciences Image Library; 10.15 (Riso): Royalty-Free/Corbis; (Spiga con semi): Dex Image/Getty Royalty Free; (Frumento): Earl Roberge/Photo Researchers, Inc.; (Pannocchia di mais): Doug Wilson/Corbis; (Pianta di mais): Adam Hart-Davis/SPL/Photo Researchers, Inc.; 10.18A: Gary R. Robinson/Visuals Unlimited; 10.18B (Spore): da C.Y. Shih and R.G. Kessel, "Living Images" Science Books International, Boston, 1982; (Fungo): Jeffrey Lepore/Photo Researchers, Inc.; 10.19A (Pezize): Robert Calentine/Visuals Unlimited; (Spugnone): Michael Viard/Peter Arnold, Inc.; 10.20A (Fruticoso): Stephen Sharnoff/Visuals Unlimited; (Foglioso): Kerry T. Givens/Tom Stack & Associates; 10.20B: R. Roncadori/Visuals Unlimited.

Capitolo 11

Apertura (Flying fox bat): Austin J. Stevens/Animals Animals/Earth Scenes; (Bat eating cactus): Dr. Merlin D. Tuttle/Photo Researchers, Inc.; (Vampire bat feeding): Stephen Dalton/OSF/Animals Animals/Earth Scenes; (Vampire bat): Michael Fogden/Animals Animals/Earth Scenes; (Long-eared bat): Press-Tige/OSF/Animals Animals/Earth Scenes; 11.1 (Rana adulta): Dwight Kuhn; (Sopra, da zigote a embrione): Cabisco Phototake; (Sotto, Uova, embrione, girino [con e senza zampe]): Dwight Kuhn; 11.6B (Anemone): Azure Computer & Photo Services/Animals Animals/Earth Scenes; (Corallo): Ron Taylor/Bruce Coleman, Inc.;

(Caravella portoghese): Runk/Schoenberger/Grant Heilman Photography;
(Medusa): Under Watercolours; 11.7A: Tom E. Adams/Peter Arnold, Inc.; 11.7B
(Scolex): James Webb/Phototake; (Proglottide): John D. Cunningham/Visuals
Unlimited; 11.8A: Lauritz Jensen/Visuals Unlimited; 11.9B (Chiocciola): Farley
Bridges; (Nudibranco): Kenneth W. Fink/Bruce Coleman, Inc.; (Polpo): Ken
Lucas/Visuals Unlimited; (Nautilo): Douglas Faulkner/Photo Researchers, Inc.;
(Pettine): Courtesy of Larry S. Roberts; (Mitilo): Fred Whitehead/Animals/Animals/
Earth Scenes; 11.10B (Granchio): Michael Lustbader/Photo Researchers, Inc.;
(Cirripedi): Kjell Sandved/Butterfly Alphabet; (Gamberetto): Bruce Robinson/
Corbis; (Copepode): Kim Taylor/Bruce Coleman, Inc.; 11.10C (Centipiede): David
M. Dennis/Animals Animals/Earth Scenes; (Millepiedi): Geof de Feu/Imagestate;
11.10D (Limulo): Jana R. Jirak/Visuals Unlimited; (Scorpione): Tom McHugh/Photo
Researchers, Inc.; (Ragno): Ken Lucas; 11.11 (Ricchio di mare): Randy Morse/
Animals Animals/Earth Scenes; (Stella serpentina): Jim Greenfield/
Imagequestmarine.com; (Stella piumata): Carl Roessler/Tom Stack &
Associates; (Cetriolo di mare): Alex Kerstitch/Visuals Unlimited; (Giglio di mare): P.
Danna/Peter Arnold, Inc.; (Dollaro della sabbia): Roger Steene/
Imagequestmarine.com; 11.12B (Ascidia): Rick Harbo; (Anfiosso): Heather Angel;
11.14 (Lampreda): Heather Angel; (Squalo): James Watt/Animals Animals/Earth
Scenes; (Pesce soldato): Ron & Valerie Taylor/Bruce Coleman, Inc.; 11.15
(Raganella): Joe McDonald/Visuals Unlimited; (Salamandra): Suzanne L. Collins &
Joseph T. Collins/Photo Researchers, Inc.; 11.16 (Tartaruga di mare): H. Hall/OSF/
Animals Animals/Earth Scenes; (Mostro di Gila): Joe McDonald/Visuals Unlimited;
(Crotalo adamantino): Joel Sartorie/National Geographic/Getty Images; 11.17
(Aquila): Thomas Kitchin/Tom Stack & Associates; (Picchio): Joel McDonald/Corbis;
(Fenicottero): Brian Parker/Tom Stack & Associates; (Cardinale): Kirtley
Perkins/Visuals Unlimited; (Avvoltoio): Robert Comport/Animals Animals/
Earth Scenes; 11.18A (Ornitorinco): D. Parer & E. Parer-Cook/Ardea;
(Opossum): Leonard Lee Rue/Photo Researchers, Inc.; (Koala): Fritz
Prenzel/Animals Animals/Earth Scenes; 11.18B (Cervo): Stephen J.
Krasemann/Photo Researchers, Inc.; (Leone): Stephen J. Krasemann/
DRK Photo; (Scimmia): Gerald Lacz/Animals Animals/Earth Scenes;
(Orca): Mike Bacon/Tom Stack & Associates.

Capitolo 12

Apertura (Biosphere 2): G. Kenny; (Agriculture): Biosphere 2 staff photo;
(Harvest, feast): A. Alling; 12.4A NOAA; 12.4B acheshot1/shutterstock; 12.6:
Michio Hoshino/Minden Pictures; 12.7: Ken Cole/Animals Animals/Earth Scenes;
12.8: Altrendo Nature/Getty Images; 12.9: Gordon & Cathy Illg/Animals Animals/
Earth Scenes; 12.10: Darla G. Cox; 12.11: John Shaw/Bruce Coleman, Inc.; 12.12B
(Rana): Art Wolfe/Photo Researchers, Inc.; (Ara): Tony Craddock/SPL/Photo
Researchers, Inc.; (Cavalletta): Dr. James L. Castner; (Ocelot): Martin
Wendler/Peter Arnold, Inc.; (Farfalla): Kjell Sandved/Butterfly Alphabet;

(Lemure): Erwin & Peggy Bauer/Bruce Coleman, Inc.; (Lucertola): Jell Sandved/Butterfly Alphabet; 39.11A(1): Kim Taylor/Bruce Coleman, Inc.; (2): William H. Mullins/Photo Researchers, Inc.; (3): Robert Maier/Animals Animals/Earth Scenes; (4): Gerlach Nature Photography/Animals Animals/Earth Scenes; 12.14A (Distesa di fango): John Eastcott/Yva Momatiuk/Animals Animals/Earth Scenes; (Mangrovieta): Dr. James L. Castner; (Spiaggia rocciosa): Brandon Cole/Visuals Unlimited.