To Tommaso, Anna and Giuseppe.

And to the sea, who often welcomes me into it like the hug of a child.

Paola

To Giacomo, who knows how to dive into wonder. **Rossana**



Published in the UK in 2024 by Post Wave Children's Books, an imprint of Post Wave Publishing UK Ltd, Runway East, 24-28 Bloomsbury Way, London, WC1A 2SN www.postwavepublishing.com

First edition 2021
Published with permission of Camelozampa
Original title: *II Giardino Delle Meduse*Written by Paola Vitale and illustrated by Rossana Bossù
Copyright @ Camelozampa, Italy, 2021
www.camelozampa.com

A catalogue record of this book is available from the British Library.

All rights reserved, including the right of reproduction in whole or in part in any form.

13579108642

ISBN 978-1-83627-000-3

Printed in China





post wave

They fill the waters of the deepest oceans, ports and beaches.

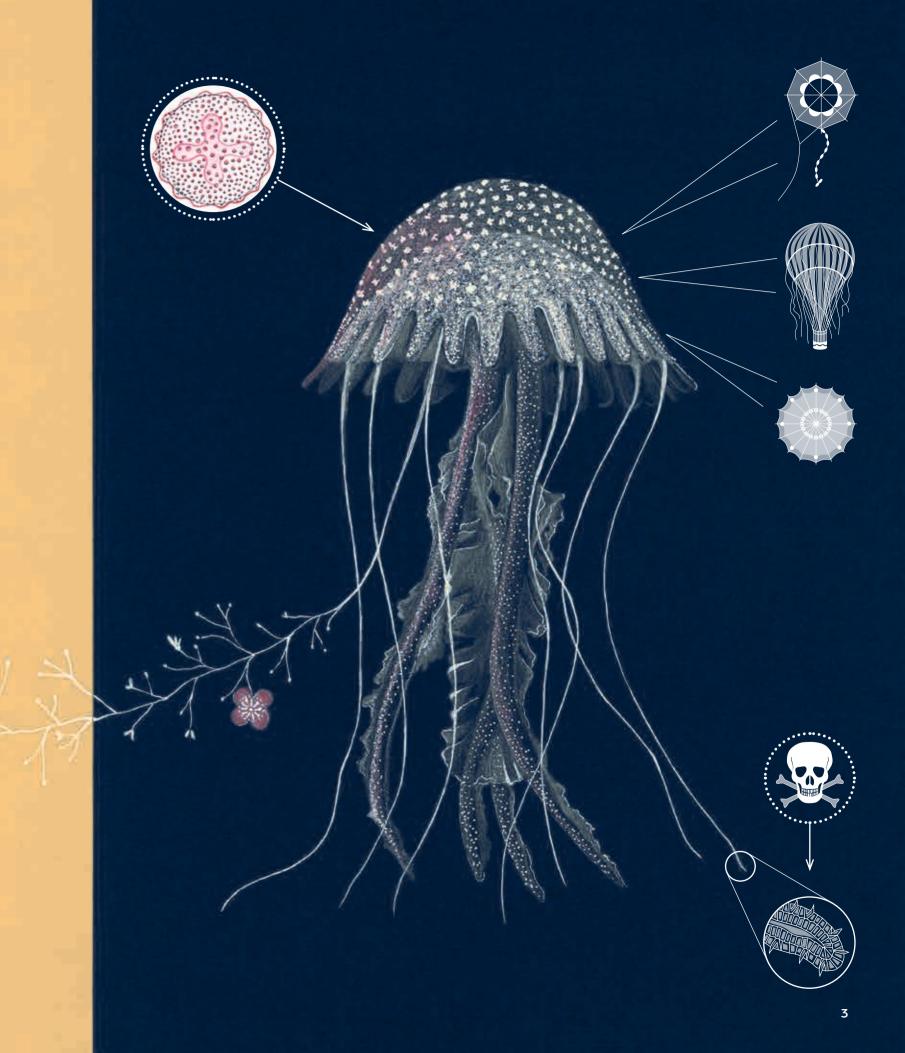
They have transparent bodies full of bright, vibrant colours.

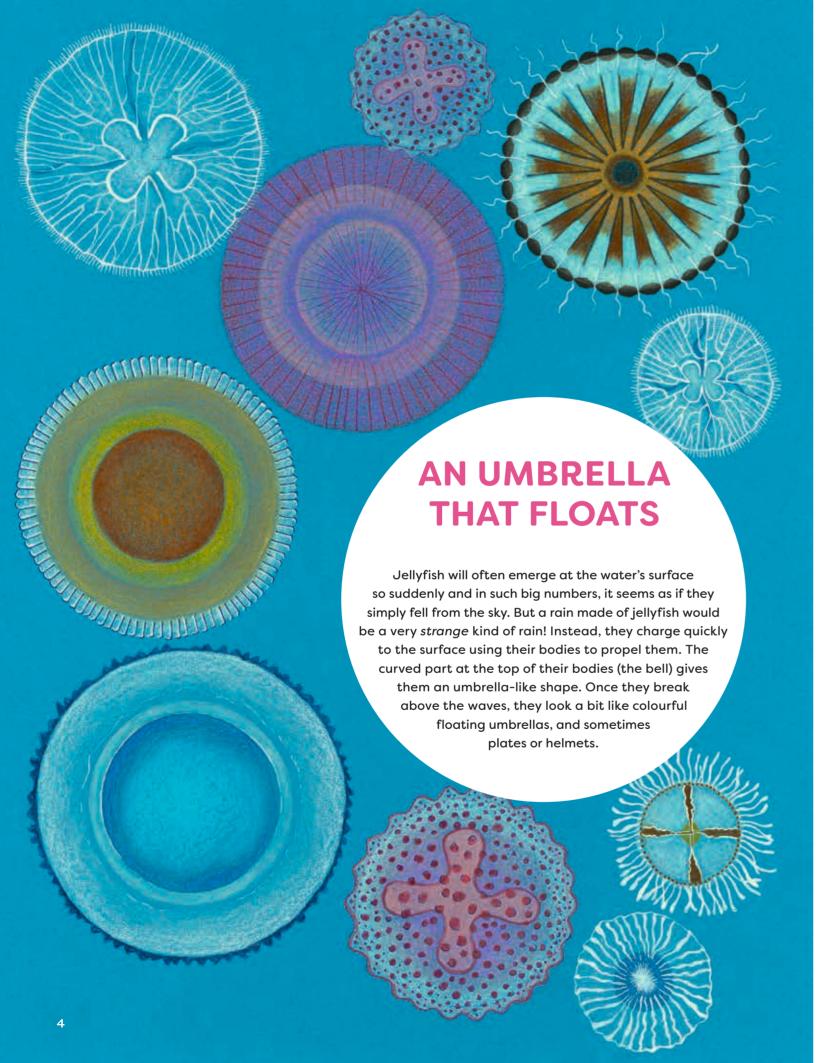
Some are bigger than humans, and some are so small they blend into the salty drops of the sea.

They live everywhere, from the Arctic Ocean to the Great Barrier Reef, in shallow coastal waters and the dark depths of the oceans.

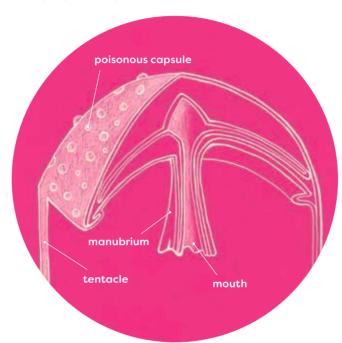
And when they bloom, they look like gardens floating on top of the water...

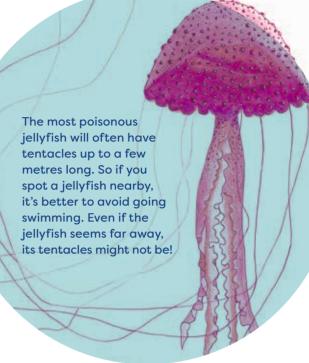
THEY ARE JELLYFISH.





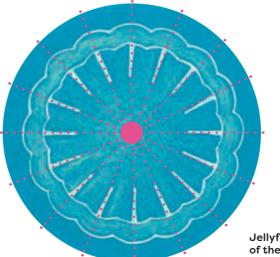
Jellyfish have four or more tentacles that hang from their body. The length of these tentacles depends on the species. A jellyfish's mouth sits under its umbrella-shaped bell, on a tube-like structure called the manubrium. Jellyfish often have capsules containing poison among their tentacles, manubrium and the entire surface of their bell. Most jellyfish are carnivores so they use the poison to paralyse their prey and capture them.



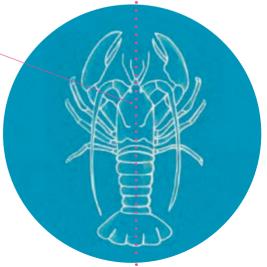


A SPECIAL SYMMETRY

Jellyfish have a rare shape that few other animals share. Though having a head positioned at the front of the body is more useful for looking around and going faster, jellyfish don't actually *need* to go fast. Instead, they spend most of their lives anchored to the seabed. And they've barely changed for millions of years, so perhaps they are perfect just the way they are!

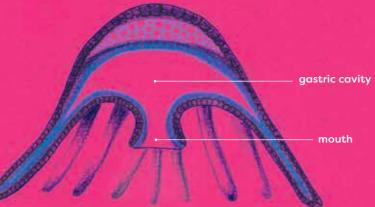


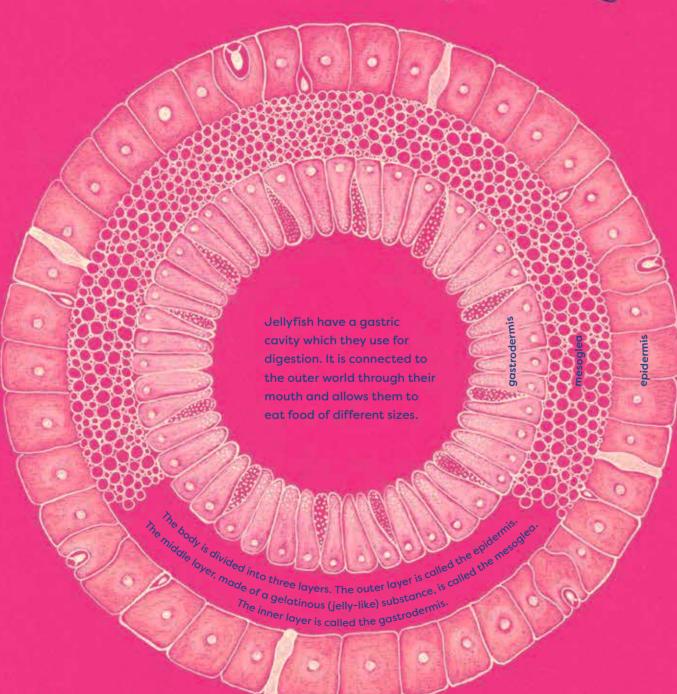
Head in front of body

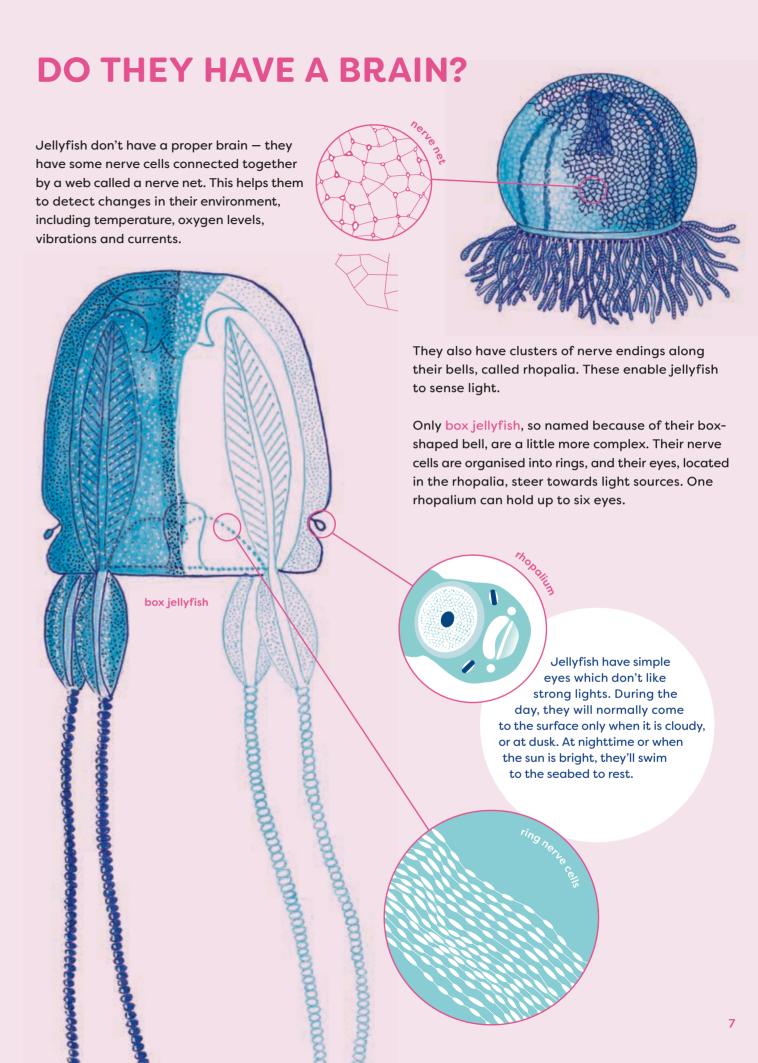


ARE JELLYFISH ANIMALS?

Jellyfish are invertebrates, meaning they have no backbone. They are also metazoans, which means that their bodies are made of multiple cells that form tissues and organs. Invertebrates and metazoans are animals.





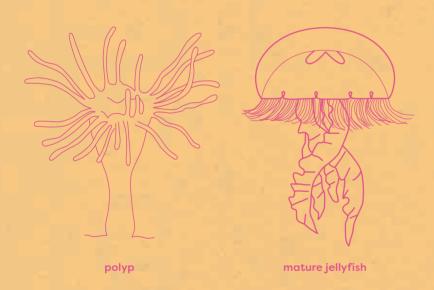


JELLYFISH AND OTHER JELLIES

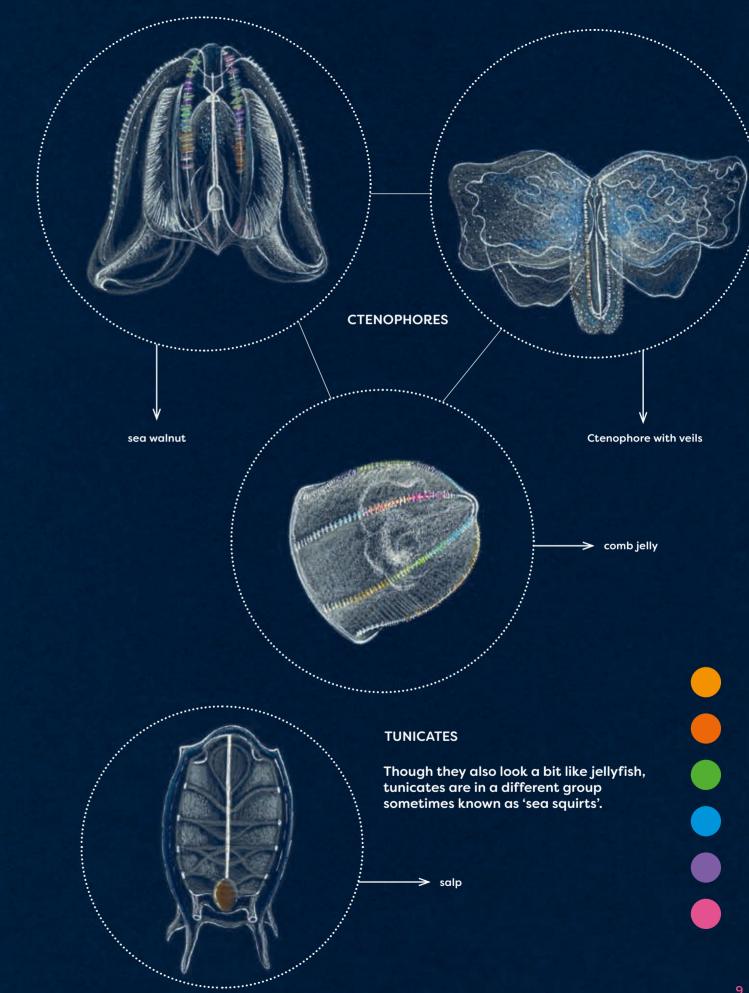
Jellyfish belong to a group of animals called Cnidaria, and almost all of them belong to its subgroup called Scyphozoa.

The Cnidarian group includes the subgroups: Scyphozoa also known as 'true jellyfish' (such as the lion's mane jellyfish) and Cubozoa (such as the box jellyfish). Comb jellies, though they look like jellyfish, aren't actually jellyfish at all and are part of the Ctenophora group.





When jellyfish are still larvae (the early form of these animals after they're born), they live as polyps. At this stage they look like corals: little stems anchored to the seabed. On top of the polyp is a mouth surrounded by tentacles to capture and swallow its prey. It is only when they are adults that jellyfish float around freely, dragged along by the current in their umbrella-shaped bodies.



DO JELLYFISH SWIM?

Thanks to a crown-shaped system of muscle at the bottom of the bell, jellyfish can swim by pushing away water in rhythmic pulsations. The almost rubbery texture of their mesoglea helps them to return to their starting point after each pulsation.

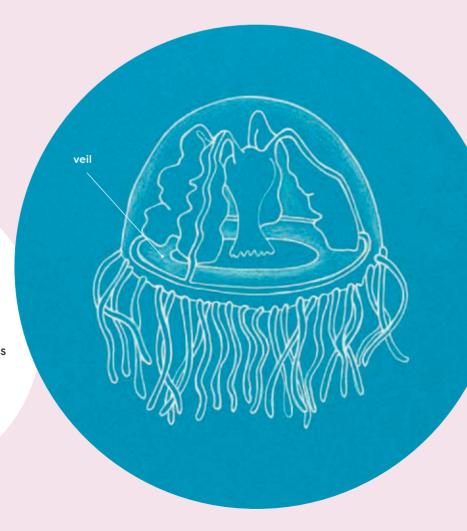


Jellyfish live everywhere, from coastal waters...



The fastest jellyfish can swim at speeds of around 6m to 100m per minute. Their speedy secret is hidden in the wavy edge of their bell that acts like a veil which helps them to push higher with each pulsation.

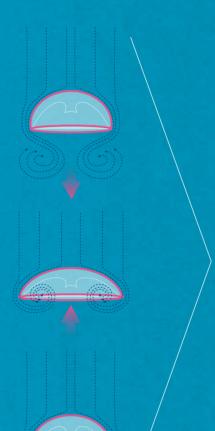
Jellyfish swim mostly in a vertical direction, though they often spin while doing it. Horizontal movements, on the other hand, mostly happen because of the direction the water is moving in. Only some kinds of jellyfish, such as tropical Rhizostomae and some box jellyfish, can really swim horizontally.



HOW JELLYFISH SWIM UP



Jellyfish swim by rising up with a series of pulsations, then they drift down slowly and start again.



















10