

éditions
Quæ

INRAE, CIRAD, IFREMER

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Selection



Beaux livres collection / hardcover books

Our Beaux livres collection is replete with scientific, artistic books. These beautiful science books feature original content and gorgeous photos that would be right at home on any coffee table.

Océans insolites - Voyage au cœur de phénomènes naturels extraordinaires

Suprising oceans - Journey to the heart of extraordinary natural phenomena

By Catherine Vadon, with Michel Olgagnon

- This beautiful book focuses on the most attractive and fascinating natural phenomena and creatures of the oceans.
- Presents some twenty little-known oceanic themes relating to physical oceanography (rogue waves) and biological oceanography (migrations, bioluminescence).
- Takes into account the most recent discoveries.
- Remarkable photographs selected for their unprecedented, unusual and striking character.

ISBN 978-2-7592-3943-6
Language: French
Collection: Beaux livres
Quæ, 2024, ref. 02964
Hardcover: 160 p.
Colour
Ebook: €17.99

Welcome to the ocean!

Light to live!

Gelatinous, vulnerable? Only in appearance!

Plankton squatters

The magical world of small pelagics

These tiny ones that build reefs

The moon guides them

Hundred ways to be an octopus

Exceptional fish

They put us in a tizzy!

Great adventurous odysseys

Ice phenomena

Survivors from distant times

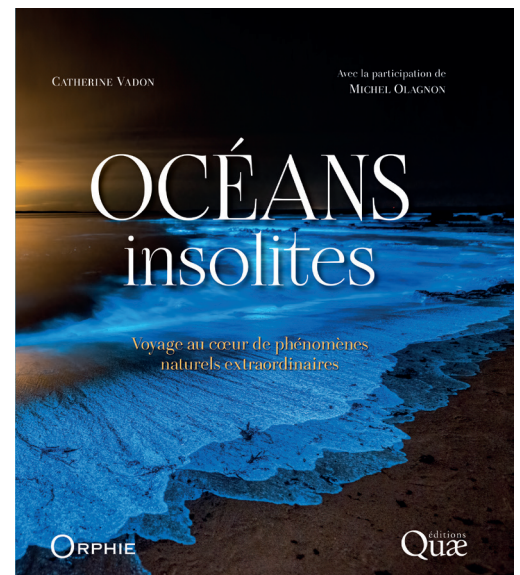
Oases of life in the deep

Life up to 11 km below the surface!

Cobalt, nickel and Co, deep under the sea

Volcanoes underwater

When the ocean goes wild!

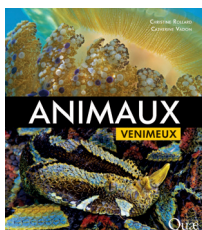


Catherine Vadon is an oceanographer and former lecturer at the Muséum national d'histoire naturelle. She now works to disseminate knowledge of biodiversity and ecology through conferences, short films and books, including *Les Rusés des récifs* (éditions Quæ).

Engineer and researcher **Michel Olgagnon** has studied the action of winds, currents and waves on marine structures. Author of *Anatomie curieuse des vagues scélérates* (Quæ éditions), he coined the term "rogue waves".

The ocean world abounds in astonishing biological curiosities and extraordinary physical phenomena. Bioluminescence, for example, is one of the secret languages of the ocean's inhabitants, like the microscopic algae that emit a brilliant neon-blue light. Deep below the surface, environments seemingly hostile to all life are home to a number of enigmatic species. Deep in the abyss, soft fish thrive, coping with colossal pressures that would crush anyone.

And what can we say about the life that huddles near underwater volcanoes that spew hot sulfides? Or the polar fish that make antifreeze to protect themselves from freezing temperatures? And of the phenomena of unprecedented violence that sometimes agitate the ocean - tornadoes, tsunamis, maelstroms, rogue waves... - that no human technology can thwart? Let's dive in and discover this surprising and unusual ocean world, an inexhaustible source of life and diversity!



ALSO TO DISCOVER

Venomous animals

By Christine Rollard, Catherine Vadon

Collection: Beaux livres

ISBN 978-2-7592-3946-7, ref. 02961, €28.50

Camouflage et mimétisme - Nature déguisée

Camouflage and Mimicry - Nature's Disguise

By Vincent Albouy

Animals resort to countless strategies to escape their predators and capture their prey. They disguise themselves in all sorts of ways, in order to blend into their environment, such as by pretending to be a stone, a plant, or another animal altogether. These tactics reveal Nature's marvelously mischievous side that serves as an endless source of inspiration.

- A renowned French nature author and a skilled science populariser.
- Well-versed in the captivating realms of camouflage and mimicry in the natural world, consistently amazes and captivates general readers.
- Covers the entire spectrum of living beings, from invertebrates to mammals, with a notable inclusion of plants.
- Includes overlooked topics like chemical mimicry in orchids used to attract solitary bees and the acoustic mimicry of hoverflies that resembles the buzzing of a bumblebee.
- Features striking photographs that capture these phenomena.

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Mimicry in all its forms

Blending into the background

A pretty cow disguised as a flower

Ruses and impersonations

Reconsidering mimicry

ISBN 978-2-7592-3584-1
Language: French
Collection: Beaux livres
Quæ, 2022, ref. 02849
Hardcover: 160 p.
Format (in mm): 215 x 245
Colour
Price: €26



Vincent Albouy is an entomologist, formerly attached to the French National Museum of Natural History. For nearly thirty years he has been interested in animals and protecting them. He has published numerous works including *L'art d'être parent chez les animaux*, *L'art d'être amoureux chez les animaux* and *Architectes du monde animal*.



To escape their predators, animals use active defences such as fighting, venom, toxic or tasteless blood, and more. But did you know that they mainly employ passive strategies, adopting behaviours such as hiding, blending in with their background or disguising themselves to impersonate another species that is aggressive, toxic or venomous? Naturalists refer to these various tactics as camouflage and mimicry.

Nature's inventiveness in this area is infinite. Some species take these strategies very far, with variations in camouflage over the course of their development, like the bark-copying butterfly, or the seasons, like the brown stoat in summer and the white stoat in winter. Others take on the appearance of what is around them, such as the turbot that settles on the seabed and mimics the colour and pattern of its surroundings in a matter of minutes.

This book provides us with striking images, each time placing the animal (or sometimes plant) and its disguise in the context in which it lives. In particular, it looks at rarely covered subjects such as the chemical mimicry of orchids attracting solitary bees to pollinate them, or the acoustic mimicry of hoverflies copying the buzzing of bumblebees. All of these tactics, which have evolved through natural selection, reveal a facetious side of nature that never ceases to inspire and amaze.



ALSO TO DISCOVER

Biomimicry

By Jean-Philippe Camborde, Gilles Bœuf
Collection: Beaux livres
ISBN 978-2-7592-3554-4, ref. 02847, €26

Petite et grande histoire des légumes

The History of Vegetables

By **Éric Birlouez**

In turn coveted, despised, rehabilitated and forgotten, vegetables are now back on our plates. Not just for their tasty qualities and health benefits, but also out of a desire to bring back into fashion foods perceived as 'genuine', with less impact on the environment and the climate.

In this book, **Éric Birlouez** takes us on a fascinating journey through the history of vegetables. For over ten thousand years, along with cereals and pulses, they have formed the basis of our diet. More than fifty vegetables are featured here, including some that were 'forgotten' - rediscovered today, such as parsnips and crosnes - and those from abroad, such as Asian cabbage. You'll discover how they became edible and tasty, thanks to the determination of farmers and cooks who, in turn domesticated wild vegetables, detoxified them by cooking or fermentation and crossed varieties.

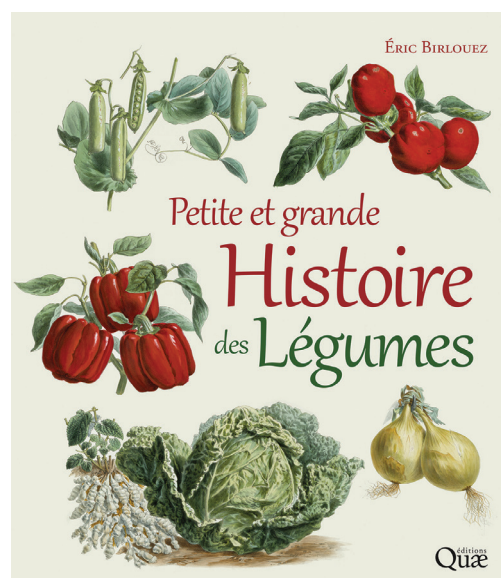
Let's take a journey through the history of vegetables, our biological, cultural and symbolic heritage.

- A beautiful book that looks at vegetables from a number of angles: botanical, historical and geographical, cultural and social, practical (everyday uses), symbolic and sacred, and nutritional.

- A focus on vegetables from the past (rediscovering 'forgotten' vegetables) and from elsewhere (discovering exotic vegetables).

- This highly illustrated book is accessible to everyone.

ISBN 978-2-7592-3793-7
Language: French
Collection: Beaux livres
Quæ, 2023, ref. 02908
Hardcover: 168 p.
Format (in mm): 215 x 245
Colour
Price: €26



Agricultural engineer and sociologist, **Éric Birlouez** is a consultant in the agri-food sector. He teaches the history and sociology of food at engineering schools and universities in France and abroad. Author and lecturer, he wrote *Vegetables. From the big history to small stories* and *Cereals and pulses*. From the big history to small stories both in the Carnets de science series (Quæ publisher).



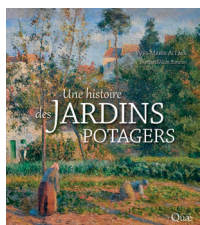
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The taste of vegetables, a long history

Fabulous diversity

Vegetables we owe to the New World

Vegetables of yesterday and today



ALSO TO DISCOVER

A History of Vegetable Gardens

By Yves-Marie Allain and Alain Baraton

Collection: Beaux livres

ISBN 978-2-7592-3578-0, ref. 02850, €26

Le pain - Une croustillante histoire

Bread - A crusty story

By **Éric Birlouez**

Much more than food, bread is a marker of our collective identity. From the earliest civilizations of the Fertile Crescent until recent times, bread has been the staple in Europe, the Mediterranean basin and the Middle East. Bread is universal, as long as we don't limit it to just wheaten bread, with its puffy, honeycombed crumb. It also includes galettes, unfermented flatbreads, breads made from other cereals...

Where and when was it born? What status did mankind give it? How did the bakery profession emerge, and how have appeared techniques and tools for milling, kneading, fermenting and baking? This book traces the origins of bread, revealing the key role this food has played in the French history, often leading to revolts in times of famine.

It also shows that bread's evolution has been marked by innovation - one of which gave our emblematic baguette, now part of UNESCO's intangible cultural heritage. Nowadays, even though we eat ten times less bread than one century ago, consumers express new expectations with organic bread, local flours from ancient varieties, -sourdough bread... and the number of "neo-bakers" and "home-made" bread fans continues to grow.

All will find a source of inspiration in the journey through France's bread-making specialties and its tour of the world's crunchiest breads!

- **A beautiful, comprehensive book that looks at bread from every angle: symbolic, historical, geographical, sociological, political, nutritional, technical...**
- **An original work that echoes the French people's attachment for bread.**
- **Written by **Éric Birlouez**, a well-known author in the sociology of food, in a pleasant, flowing style.**
- **Photographs, paintings, postcards and figurines... enrich this world tour of breads.**

ISBN 978-2-7592-3940-5
Language: French
Collection: Beaux livres
Quæ, 2024, ref. 02962
Hardcover: 160 p.
Format (in mm): 215 x 245
Colour
Price: €26



Agricultural engineer and sociologist, **Éric Birlouez** is a consultant in the agri-food sector. He teaches the history and sociology of food at engineering schools and universities in France and abroad. Author and lecturer, he wrote *Vegetables. From the big history to small stories* and *Cereals and pulses*. From the big history to small stories both in the Carnets de science series (Quæ publisher).

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Flour and water

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Breads from here and elsewhere

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ALSO TO DISCOVER

Nature in 19th-century Paris - From the Real to the Imaginary

By Gisèle Séginger

Collection: Beaux livres

ISBN 978-2-7592-3720-3, ref. 02912, €26

Café - La grande épopée

Coffee - The Great Pic

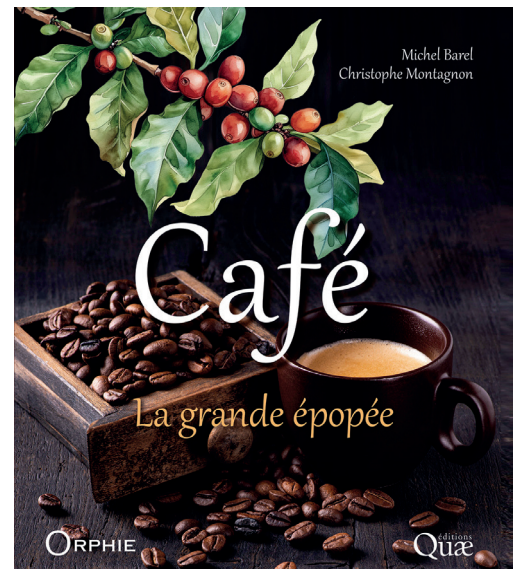
By Michel Barel and Christophe Montagnon

Coffee is the third most widely consumed beverage in the world. Much more than a simple 'little black', it punctuates the day and represents a moment of conviviality, an opportunity to relax, a moment of indulgence... But how does this very special beverage, which arrived in Europe in the 17th century, make its way into our cups?

The history of the coffee plant, its spread and cultivation, and the various stages in the processing of coffee cherries, invite you to take a trip around the world, to Africa, Arabia, Asia, Latin America and even the tropical islands. Michel Barel and Christophe Montagnon visit family plantations and large roasting companies, and cross paths with merchants and traders, following the journey of these beans. Using the chemistry of the molecules, they unlock the secret of the coffee aromas revealed during the various stages of fermentation and roasting, right up to the preparation of the perfect cup.

- A beautiful book that introduces us to coffee from its origins to the ultimate cup (history of the coffee plant, cultivation, stages in its transformation, aromas, tasting...)
- A richly illustrated book aimed at a wide readership, written by two coffee specialists.
- All the secrets of this iconic beverage are revealed.

ISBN 978-2-7592-3940-5
Language: French
Collection: Beaux livres
Quæ, 2024, ref. 02962
Hardcover: 128 p.
Format (in mm): 215 x 245
Colour
Price: €26



Michel Barel is engineer from the Conservatoire National des Arts et Métiers and former Director of Research at CIRAD. An international expert in post-harvest and quality of coffee and cocoa, he is director of the consultancy consulting firm KawaCao.

Christophe Montagnon is a doctor in plant genetics and former head of coffee research at CIRAD. He is an international expert in agronomy and coffee tree genetics and runs the company RD2 Vision.



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THE COFFEE TREE

The red-fruited shrub • The tree, its flowers and fruit
• The main coffee species • New species and climate change
• The varieties • Different ecologies • Man and coffee
• The legend of Kaldi • The journeys of coffee trees
• From colonial plantations to family plantations
• The coffee tree, a shade tree • Coffee trees in the sun
• Agroforestry: the protective forest • Growing coffee trees
• Coffee tree diseases and insects • Harvesting
• After the harvest • The coffee cherry • The dry method
• The wet method • Processing and storage • Quality control

THE COFFEE CHAIN

The coffee trade • The coffee trade through the ages
• Futures markets and speculation • Liberalisation and falling prices
• Demand for speciality coffees
• Coffee and labels • On the coffee markets • Around fifty producing countries
• Different economic models
• Importers and roasters • Consumers • Gourmet coffees

BEVERAGE COFFEE

The roasting industry • Roasting • Blended and pure-origin coffees
• Decaffeination • Grinding • Soluble coffee • Coffee infusion
• Coffee preparation
• Top-of-the-range coffees • The influence of coffee on health
• Enjoying coffee • A few definitions • Getting into condition
• Words to describe it • And now for the tasting



PUBLICATION BY THE SAME AUTHOR

From Cocoa to Chocolate - A Food-Lover's Saga

By Michel Barel

Collection: Beaux livres

ISBN 978-2-7592-3378-6, ref. 02792, €25


LA RECHERCHE AGRONOMIQUE
POUR LE DÉVELOPPEMENT

Les rusés des récifs

The Reef's Cleverest Creatures

By Catherine Vadon

Sea cucumbers, sea urchins, brittle stars and sea lilies, together with starfish, form part of the zoological group called echinoderms, an important part of marine biodiversity that plays a key ecological role. But what do you know about them? This book provides clear and complete explanations of the secrets of these intriguing sea creatures.

What could be more beautiful and captivating on our planet than a healthy coral reef? These underwater wonders, reservoirs of exceptional biodiversity, cover less than 1% of the ocean floor but provide a habitat for at least 25% of ocean species. In this vibrant ecosystem, the relentless competition for space and the ever-present threat of predation have given rise to a wide array of attack and defence strategies. Fish, crabs, sea urchins, molluscs, and other reef inhabitants are armed with a diverse arsenal of physical and chemical weapons: spines that pierce, teeth that crush, stingers that poison, and more. To attract prey or evade predators, many employ clever tactics such as cunning camouflage, deceptive imitation, subtle disguise, and bold warnings!

Abundantly illustrated and meticulously documented, this book is designed for diving enthusiasts and ocean lovers alike. It opens a window into the fascinating world of some remarkable species endowed with extraordinary powers of adaptation within these coral reefs.

- **Highlights the remarkable adaptability of seventy most unique underwater species, including seahorses, groupers, trumpetfish, dugongs, balloonfish, harlequin shrimp, starfish, sponges, sea cucumbers, hummingbird bobtail squid, *Spirobranchus* worms, and cuttlefish.**

- **The author is a renowned science populariser and has written numerous books on ocean-related subjects.**

- **Features a treasure trove of beautiful photographs, each brimming with breathtaking detail.**

- **Rich and lively narrative text, teeming with engaging anecdotes so that all readers can delve into the wonders of the underwater world.**

ISBN 978-2-7592-3590-2
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Quæ, 2022, ref. 02868
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Colour
Price: €28

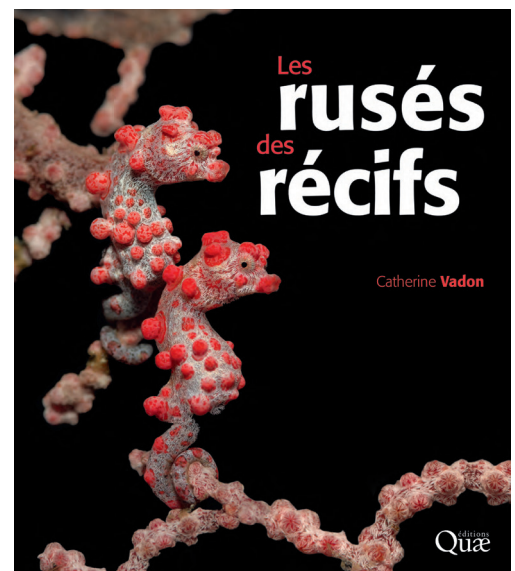


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LIVING IN A COMMUNITY

The founding association of the reefs - Billions of micro-algae - Solar-powered panels - Coral squatters - Defender and cleaner - The sting of anemones - Staying in your hole - Playing the transparency game - No life without an anemone - The damselfish that oxygenate the coral - A burrow for four - Not even afraid! - Drawing in the little ones - When two species cooperate

TEETH, CLAWS AND SPINES

Serial killer - A powerful coral excavator - Nightmare or reality? - A locking system - Scalpels on its tail - A deadly acoustic shock - A hellish strategy - Quick as the devil - Sharp needles - Shocking quills - Claws by the hundreds - Hungry for coral

POISONS AND VENOMS

Cooking fire coral! - Killer tentacles - Drugged, harpooned, executed! - Brightly coloured warnings - Small, but deadly! - Seductive and fearsome - Fast fugu - The poison within - Tiny mouth, viscous venom - A chemical shield - Natural anti-fouling!



ALSO TO DISCOVER

Starfish and Their Cousins

By Coralie Taquet, Marc Taquet

Collection: Clés pour comprendre

ISBN 978-2-7592-2320-6, ref. 02531, €20

Oiseaux - Sentinelles de la nature

Birds - Nature's Sentinels

By Frédéric Archaux

A new edition of this beautiful book. Discover the biology, habits and remarkable adaptability of birds. Around the world, birds have had to evolve to cope with the constraints of their environment. The woodpecker has adapted to the trees, the cormorant to the water, the ptarmigan to the high mountains and the albatross to the open sea. But how do they burrow into the wood? Swim underwater? Resist the cold or thirst at sea? Today, human activity is disrupting the winged world. While wood pigeons and jays are making cities their homes, whole swaths of many bird species are disappearing, including our very familiar sparrow. Who wins and who loses? What does the future hold for birds and their cohabitation with humans?

- **Birds: a subject that captivates both ornithologists and nature enthusiasts.**
- **The topic is explored from a distinctive perspective, focusing on different environments such as mountains, coasts, and urban areas.**
- **Showcased throughout the book are the remarkable adaptive abilities of birds, which are threatened by human activities and changing environments.**
- **Original high-quality illustrations that encompass the vast diversity of bird species.**
- **Exceptionally clear writing that is accessible to a broad readership.**

ISBN 978-2-7592-3712-8
Language: French
Collection: Beaux livres
Quæ, 2023, ref. 02896
Hardcover: 184 p.
Format (in mm): 215 x 245
Colour
Price: €26.50



Frédéric Archaux is a research engineer at INRAE in Nogent-sur-Vernisson, where he studies the response of forest biodiversity to human activities in managed forest landscapes. For nearly twenty years, birds and butterflies have been a key part of his research focus on nature conservation.



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A head full of birds (foreword)

The dinosaurs are among us

How the feather came about

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Sharp senses

Incredible solo singers

Not so tiny brains

The chicken and the egg

Tireless globetrotters

In the shadow of giants

Bleak plains

Ever higher

Between land and water

The call of the sea

Urban settlers

When birds are unwanted

When birds are welcome

Birds, sentinels of nature

Explore further



ALSO TO DISCOVER

The Art of Communication among Birds

By Barbara Ballentine, Jeremy Hyman, Mike Webster

Collection: Beaux livres

ISBN 978-2-7592-3340-3, ref. 02801, €28

INRAE

Le langage silencieux des plantes

The Silent Language of Plants

By Yvan Kraepiel, Sylvain Raffaele

This book invites you to connect to the information and communication networks of the plant world. Discover how plants slowly and stealthily sort out which microbes are friends or foes, cooperate with fungi, call for help and organize their days by communicating with their environment.

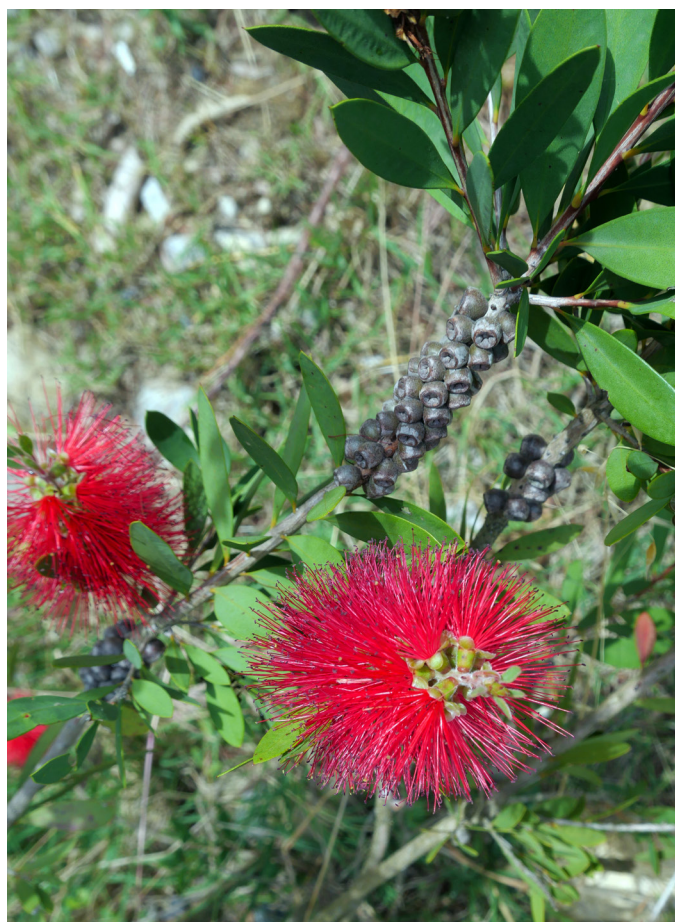
- Clear and straightforward language suitable for anyone interested in understanding how plants communicate through essential functions like nourishment, reproduction, self-defence, and their quest for global dominance.
- Illustrative examples drawn from our everyday surroundings that illuminate the intricate connections between plants and the myriad organisms that coexist with them.
- In-depth and accurate explanations rooted in the most recent research discoveries.
- Abundantly illustrated for easier understanding.

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Language: French
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Quæ, 2023, ref. 02887
Hardcover: 168 p.
Format (in mm): 165 x 220
Colour
Price: €23.50



One day, the Oak said to the Reed, “You have good reason to accuse Nature; a wren for you is a heavy burden.” Jean de La Fontaine probably never imagined that such a conversation between the two plants in his fable could actually take place. But ever on the lookout for the slightest change in their environment, plants exchange countless signals with the world around them in a language all their own. Colourful flowers full of sweet nectar are a familiar call to pollinators, but many other messages are indecipherable to our senses.

How do you feed and defend yourself, reproduce, and cope with a changing environment when you live, sometimes for centuries, firmly anchored to the ground, immobile, exposed to the four winds and to the appetites of sometimes cumbersome neighbours? Discover how plants slowly and stealthily sort out which microbes are friends or foes, cooperate with fungi, call for help and organise their days by communicating with their environment. For an organism that can cover several hectares, good coordination also requires well-honed internal communication, from the deepest roots to the tallest branches.



ALSO TO DISCOVER

Do Plants Possess a Memory?
 By Michel Tellier
 Collection: Hors collection
 ISBN 978-2-7592-2325-1, ref. 02477, €19



Les parfums de la nature

The Sents of Nature

By Roland Salessé

On an olfactory walk through nature, this book takes you on a discovery of its fragrances. How do we perceive them? How do they differ from a scent? What are they made of?

The result of millions of years of evolution, fragrances are a veritable chemical language, enabling plants, animals and micro-organisms to communicate with their environment. Plants use scents to attract pollinators, but they are also capable of alerting, defending and even feeding themselves. The strategies of animals differ from those of plants: gifted with movement, they can rely on chemical language to avoid danger, find shelter and food or choose a partner, thanks in particular to body odours. Humans, meanwhile, have drawn abundantly on nature to create scents for ritual or aesthetic purposes: in perfumery, gastronomy and even to create olfactory works of art.

Focusing on the sense of smell, perhaps the most neglected of our senses, this book invites us on an olfactory immersion to smell the scents of nature and discover the profound meaning of this chemical communication, in which we often participate unconsciously.

- **Clear and straightforward language suitable for anyone interested in understanding how plants communicate through essential functions like nourishment, reproduction, self-defence, and their quest for global dominance.**
- **Illustrative examples drawn from our everyday surroundings that illuminate the intricate connections between plants and the myriad organisms that coexist with them.**
- **In-depth and accurate explanations rooted in the most recent research discoveries.**
- **Abundantly illustrated for easier understanding.**

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Language: French
Collection: Carnets de sciences
Quæ, 2024, ref. 02946
Hardcover: 152 p.
Format (in mm): 165 x 220
Colour
Price: €23





ALSO TO DISCOVER

Is Seduction Reliant on Smelling Good? - 120 Keys to Understand Smells
 By Michel Tellier
 Collection: Clés pour comprendre
 ISBN 978-2-7592-2970-3, ref. 02682, €20



La vie cachée des sols

The Hidden Life of Soils

By Philippe Hinsinger

Soils are amongst the greatest reservoirs of biodiversity of the planet. The functioning of terrestrial ecosystems is linked to the roles played by the many organisms that live underground, discreet, hidden or invisible to the naked eye. From bacteria to fungi, from microscopic animals to plants via their roots, from detritivorous or predatory arthropods to small mammals, not forgetting earthworms, they interact with each other and profoundly modify soil characteristics.

Soils evolve actually. They have a past, of which they keep traces, and a future. But whether we are talking about farmed or forested areas, or so-called natural or pristine ecosystems, they are threatened in many ways. In addition to artificialization, pollution and declining biodiversity, they are also seriously altered by natural processes such as acidification, salinization and erosion, which are being amplified by human activities.

Aimed at a wide readership and richly illustrated, this book highlights the richness of soils and the life they harbor, and the pressing need to safeguard them in the context of climate and land-use changes worldwide.

- **Clear and straightforward language suitable for anyone interested in understanding how plants communicate through essential functions like nourishment, reproduction, self-defence, and their quest for global dominance.**
- **Illustrative examples drawn from our everyday surroundings that illuminate the intricate connections between plants and the myriad organisms that coexist with them.**
- **In-depth and accurate explanations rooted in the most recent research discoveries.**
- **Abundantly illustrated for easier understanding.**

ISBN 978-2-7592-3897-2
Language: French
Collection: Carnets de sciences
Quæ, 2024, ref. 02942
Hardcover: 152 p.
Format (in mm): 165 x 220
Colour
Price: €23





ALSO TO DISCOVER

80 keys to understand soils

By Jérôme Balesdent, Étienne Dambrine, Jean-Claude Fardeau

Collection: Quæ en poche

ISBN 978-2-7592-3826-2, ref. 02906, €12



La vie en milieu extrême

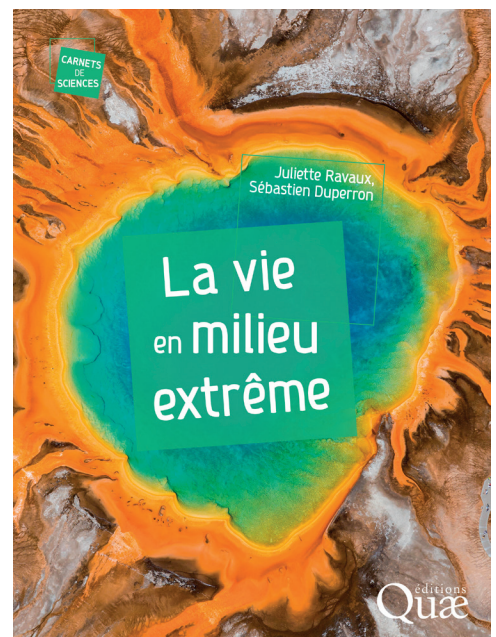
Life in extreme environment

By Juliette Ravaux, Sébastien Duperron

This richly illustrated book reveals how life and living beings adapt to extreme environments (cold, heat, darkness, but also unsuspected environments close to us).

- A subject approached from a new angle: through unsuspected extreme environments, we discover that they are in fact widespread on Earth.
- A richly illustrated work on life in diverse extreme environments (deserts, ice floes, abyssal depths, coral reefs, upper atmosphere and, closer to us, our countryside, our cities, our homes and even our bodies...).
- Many anecdotes make the reading very lively.
- Extreme environments are sources of innovation, particularly in the field of human health.

ISBN 978-2-7592-3897-2
Language: French
Collection: Carnets de sciences
Quæ, 2022, ref. 02837
Hardcover: 144 p.
Format (in mm): 165 x 220
Colour
Price: €23.50



Invoking extreme environments inevitably opens up the field of the extraordinary, fed by historical accounts of explorations to the ends of the earth and contemporary images of ice floes, deserts or abyssal depths. Long portrayed as inaccessible and hostile to humanity, they are home to an immense diversity of species, illustrating how life has adapted and pushed its limits since the dawn of time. As scientific discovery continues, unexpected extreme environments are being revealed, on our coasts, in our countryside, in our cities, in our homes and even in our bodies. What if, far from being rare and exceptional, extreme environments were among the most common and widespread on our planet?



ALSO TO DISCOVER

Insects are the kings of adaptation
 By Luc Passera
 Collection: Beaux livres
 ISBN 978-2-7592-3334-2, ref. 02800, €26

Les tortues marines - 80 clés pour comprendre

Sea Turtles - 80 Keys to Understanding

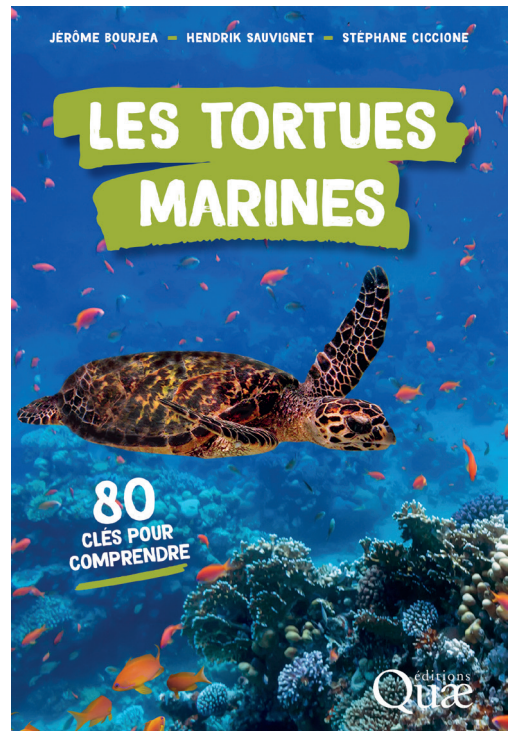
By Jérôme Bourjea, Hendrik Sauvignet, Stéphane Ciccione

Sea turtles are emblematic and mysterious reptiles. What is known about them? How many species are there around the world? How do they live? How do they reproduce? Why do they come back to lay their eggs on the same beach where they were born? How do they manage to find their way back?

Through 100 richly illustrated questions, interspersed with a variety of historical and literary anecdotes, this book invites readers to learn a little more about the mysterious lives of these tireless wanderers!

- The only French book on sea turtles, designed in an engaging question-and-answer style aimed at a wide readership.
- A dynamic narrative, replete with historical and literary anecdotes.
- Sea turtles are a remarkable group of species known for their incredible longevity, yet requiring vigilant protection amidst the many challenges they face.
- Enhanced by vibrant, high-quality color photographs depicting their natural habitat.

ISBN 978-2-7592-3669-5
Language: French
Collection: Clés pour comprendre
Quæ, 2023, ref. 02880
Hardcover: 120 p.
Format (in mm): 140 x 205
Colour
Price: €19



Following in the footsteps of sea turtles, you'll discover rich, unspoilt nature. By protecting these "umbrella species" and their habitats, myriad ecosystems species and landscapes will be preserved.

But readers will also meet people from different cultures, who have attached greater importance to the symbolic and spiritual value of turtles, rather than their commercial value. In a constantly changing world, where everything seems to be speeding up, sea turtles and their "peoples" remind us how world's it is to respect the essential world's natural balances if we want to maintain life and the lasting prosperity of our societies.



ALSO TO DISCOVER

Seaweeds Secrets
By Véronique Vêto-Leclerc, Jean-Yves Floc'h
Collection: Carnets de sciences
ISBN: 978-2-7592-2976-5, Ref.02686, €22



Architectes du monde animal

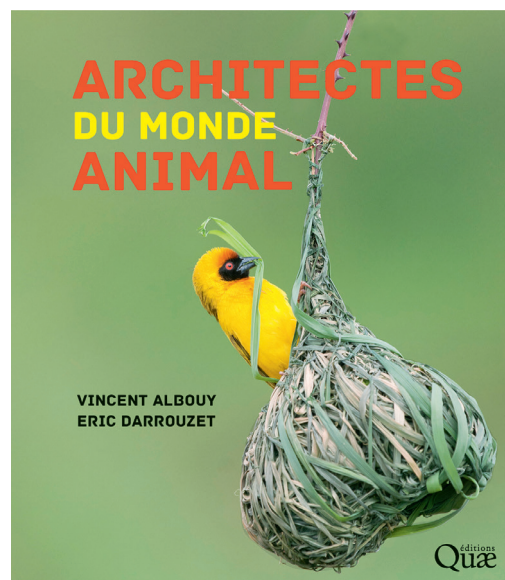
Architects of the Animal Kingdom

By Vincent Albouy and Eric Darrouzet

Through thirty examples – from marine worms to weaver ants, frogs, spiders and birds – this book gives readers a closer look at the extremely varied individual, family and collective dwellings created by animal architects. Spectacular photos and accessible explanations for all readers shed light on an unknown facet of nature's ingenuity.

ISBN 978-2-7592-3215-4
Language: French
Collection: Beaux livres
Quæ, 2020, ref. 02751
Hardcover: 148 p.
Format (in mm): 215 x 245
Colour
Price: €26

- Clear and concise descriptions of the functions and the materials, resources and skills used by the animals to build these structures
- A fabulous exploration of the beauty of the world's biodiversity



Naturalist and entomologist **Vincent Albouy** has been interested in animals for nearly thirty years. He has written many books about them for the general public.

Éric Darrouzet, a researcher at the University of Tours and specialist in social insects, has authored several popular books in this field.

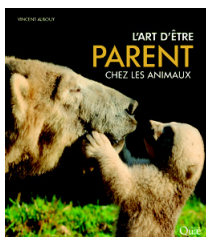
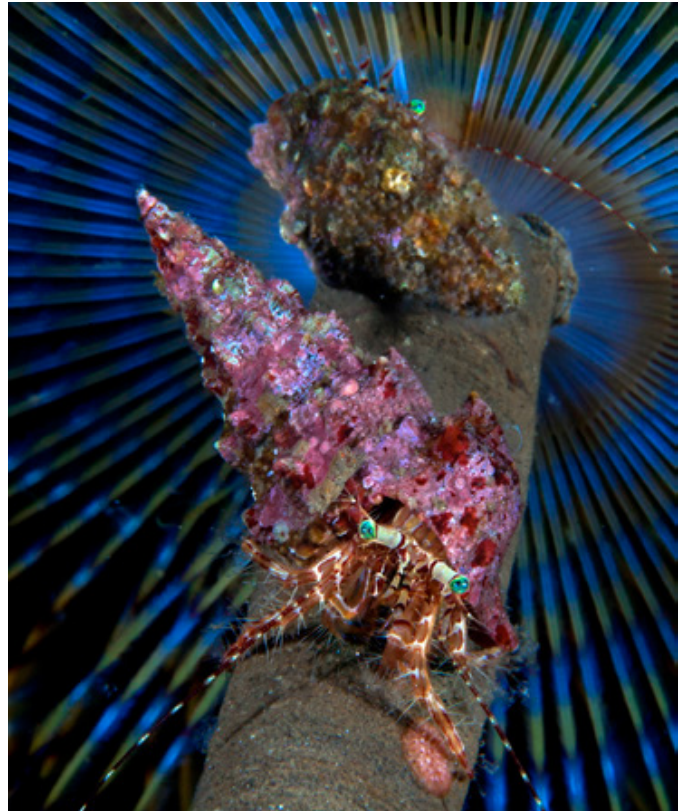


Have you ever noticed tiny, unusual casings made of plant debris attached to a stone wall or the back of a roadside sign? They are the work of caterpillars that will one day morph into psychedelic butterflies. Like these creatures, many other animals cover themselves individually with a protective envelope, or secrete one, exposing these often aesthetic structures to curious viewers. Just as impressive are the family-sized shelters that many animals build to protect their offspring. And even more astonishing is the fact that some animals pool their efforts and resources to design collective dwellings!

Whether simple or sophisticated, all these shelters – designed to meet the needs of each species – show a great diversity of form and architectural organisation: cocoons, shells, nests, burrows, galleries and more.

The spectacular photographs in this book and the very accessible texts will show readers just how ingenious nature can be. Through some thirty examples, from marine worms to mammals and birds, weaver ants, frogs and, of course, spiders, the authors share animal-made constructions that are as varied as their architects' skills.

This beautiful book will give you a newfound sense of respect for the biodiversity of our world.



PUBLICATION BY THE SAME AUTHOR

The Art of Parenting in the Animal World
By Vincent Albouy
Collection: Clés pour comprendre
ISBN 978-2-7592-3030-3, ref. 02703, €26

Fruits tropicaux – Invitation au voyage

Tropical Fruits – An Invitation to Travel

By Valérie Le Bellec and Fabrice Le Bellec

Pineapples, avocados, dragon fruit, pomelos and bananas are now available to everyone and are commonly found at your local market. But these are just a few examples of the immense diversity of tropical fruits. This book invites readers to discover more than eighty different fruits, their origins and their uses. This book is a genuine invitation to travel!

- More than eighty tropical fruits, from the most common to the most “exotic” ones
- A detailed presentation of each fruit: history, unique details, and food and medicinal uses
- Richly illustrated to better identify the fruit

ISBN 978-2-7592-3199-7
Language: French
Collection: Beaux livres
Quæ, 2020, ref. 02753
Hardcover: 168 p.
Format (in mm): 215 x 245
Colour
Price: €25



Valérie Le Bellec is a specialist in sustainable crop protection.

Fabrice Le Bellec is the director of a research unit specialising in horticulture at CIRAD. He designs new, more environmentally friendly cropping systems.

Both are agricultural engineers who have been working for over twenty-five years to promote little known tropical fruits.



Pineapples come from Africa, dragon fruit (pitaya) from Vietnam, apples from Florida, lychees from Madagascar and avocados from Israel. Or so we think – but in fact, all these claims are false!

The fruits presented here thrive in tropical, subtropical and even warm temperate climates. Throughout these pages, readers will discover the history, unique details, and food and medicinal uses of these fruits. Tropical fruits have always been traded between tribes, between peoples, between countries. During the fifteenth century, this type of intercontinental trade increased during the European expeditions of exploration and colonisation.

As a result, major fruit species are now found all over the world: the avocado tree from Mexico is grown and appreciated across the globe, as are citrus fruits from the Himalayan foothills. But until a few decades ago, only fruits that could withstand long shipments by boat were sold outside their local production area. The banana was one of the first to be exported globally. The rise in air freight later made it easier to bring them to our shop shelves.

How many tropical fruits do you know? Ten, twenty, maybe thirty – likely those that are commonly found at your local market. While this book includes the most common ones, it also invites you on a journey to discover the origins and uses of many, many (over eighty) more!



ALSO TO DISCOVER

A Small and Great History of Vegetables
By Eric Birlouez
Collection: Carnets de sciences
ISBN 978-2-7592-3196-6
ref. 02742, €22

Dans l'intimité des Papillons

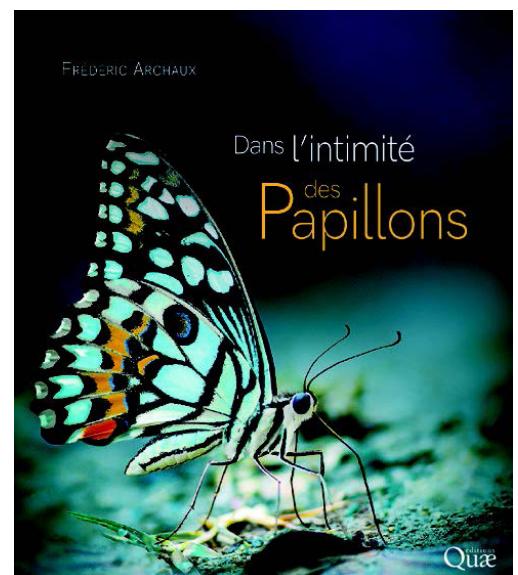
The Secret Life of Butterflies

By Frédéric Archaux

A beautiful and extraordinarily well-illustrated book about the secret life of butterflies, their beauty and their amazing behaviour. Delve into the many facets of their secret lives...

- A book dedicated to all butterflies, both diurnal and nocturnal, around the world
- An exploration of all the aspects of butterfly biology, behaviour and ecology
- A fluid writing style
- Rich and beautiful iconography

ISBN 978-2-7592-3337-3
Language: French
Collection: Beaux livres
Quæ, 2021, ref. 02799
Hardcover: 168 p.
Format (in mm): 215 x 245
Colour
Price: €25



Frédéric Archaux is a research engineer at INRAE in Nogent-sur-Vernisson, where he studies the response of forest biodiversity to human activities in managed forest landscapes. For nearly twenty years, birds and butterflies have been a key part of his research focus on nature conservation.

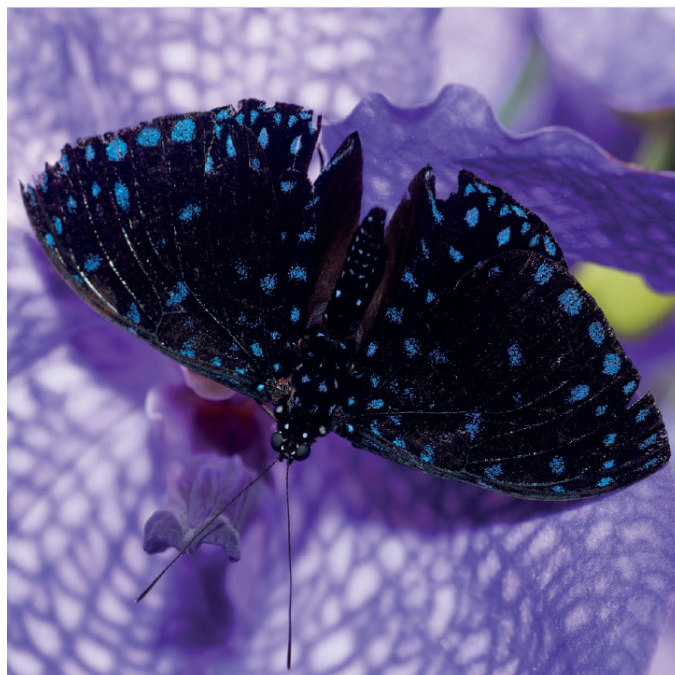


Who hasn't marvelled at the multicoloured brilliance of a peacock foraging for food? The poet sings of the butterfly's beauty, but the farmer and gardener rail against the voracity of its caterpillars. But what do we really know about butterflies? Often not very much. They're not so easy on the eye.



Did you know that butterflies appeared before the dinosaurs, and especially before their faithful companions, flowering plants? That one animal in ten on Earth is a butterfly and that nine out of ten live at night? They have brains capable of learning and memorising where the best nectar bars are, and sensory organs that are as strange as the next, their eyes looking like disco balls and their antennae equipped with ultra-powerful sensors. The reproduction of these insects is a matter of colours as well as scents, and even sweet melodies in some cases! But the most incredible part is the metamorphosis, or how a pudgy caterpillar gives way to the imago, the butterfly that finally reveals itself. It sets off to discover the world, powered by its four wings. Delicately sprinkled with scales, they are as much a stage costume as a camouflage, and are aimed at both partners and predators. Red and black: stay away, I'm toxic!

And it's hard to imagine, as you gaze at a butterfly on a lavender bush, that when night falls, it might be flying at 50 km/h over 1,000 metres above sea level. Butterflies are one of evolution's most dazzling success stories. Yet they are not immune to the worrying disappearance that is affecting all biodiversity. If we look at our relationship with nature in a different way, we could well see the meadows of yesteryear blooming again with butterflies.



PUBLICATION BY THE SAME AUTHOR

Birds – Nature's Sentinels
By Frédéric Archaux
Collection: Beaux livres
ISBN 978-2-7592-3230-7, ref. 02749, €26

INRAE

Fascinantes Araignées

Fascinating Spiders

By Christine Rollard, Philippe Blanchot and Cédric Villani

This book for all nature-lovers takes readers on a journey through a silky universe populated by creatures of unsuspected diversity in terms of their appearance, hunting techniques, child-minding habits and capacity to produce the silk so coveted by biotechnologists. Spiders are formidable predators that ensure ecological balance and form an essential link in the food chain. Are they truly dangerous for humans?

With an approach that is both scientific and artistic, this finely illustrated work offers some truly beautiful portraits of spiders.

ISBN 978-2-7592-3369-4
Language: French
Collection: Beaux livres
Quæ, 2021, ref. 02799
Hardcover: 160 p.
Format (in mm): 215 x 245
Colour
Price: €25

- An enthusiastic text that challenges our preconceived ideas by highlighting little-known characteristics of spiders
- Unusual photos that capture surprising behaviours
- Exceptional authors: Christine Rollard, aka “Madame Spider”, is a top French arachnology specialist, and Philippe Blanchot is a professional photographer and entomologist

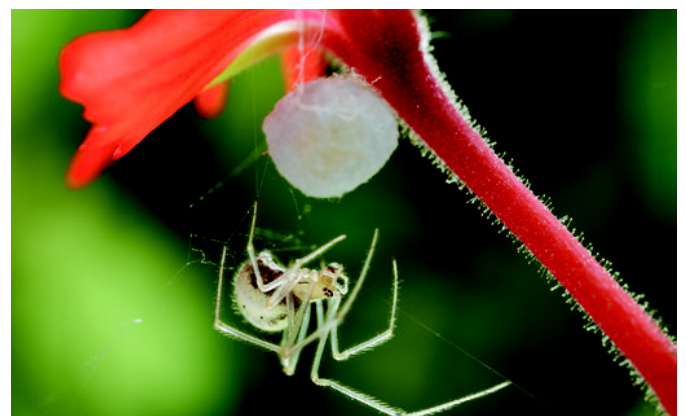


Christine Rollard is a specialist in spiders and a teacher-researcher at the National Museum of Natural History in Paris.

Philippe Blanchot is an entomologist and professional photographer. *Fascinating Spiders* is sure to completely change the way you see these fascinating animals.

This book is a genuine homage to naturalist observation and is illustrated with original drawings by Estelle Villemin.

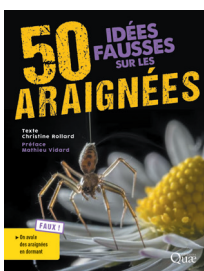
Preface by Cédric Villani.



Many spiders boast amazing colours. To camouflage themselves, some are able to change their colour to match the plants they sit on. To seduce potential mates, the males know how to get noticed: they sing, dance, emit a scent or proffer treats. Some smaller spiders can travel dozens of kilometres, while others prefer to run, jump or swim.

Christine Rollard shares many surprising facts about spiders: their anatomy, their extraordinary sensory capabilities, their hunting techniques and the way they take care of their young. As predators, spiders are indispensable to the ecological balance and form an essential link in the food chain. They are also a source of inspiration for biotechnology thanks to their ability to produce their coveted silk.

How are these animals perceived around the world? What powers and qualities are attributed to them in so many tales and legends around the world? This updated edition includes a chapter on biomimicry and the unexpected behaviour of certain species, with photos of remarkable webs along with key facts to help readers better understand these creatures.



PUBLICATION BY THE SAME AUTHOR

Fifty Misconceptions about Spiders
Christine Rollard and Mathieu Vidard
ISBN 978-2-7592-3239-0, ref. 02840, €23

De l'œnologie à la viticulture

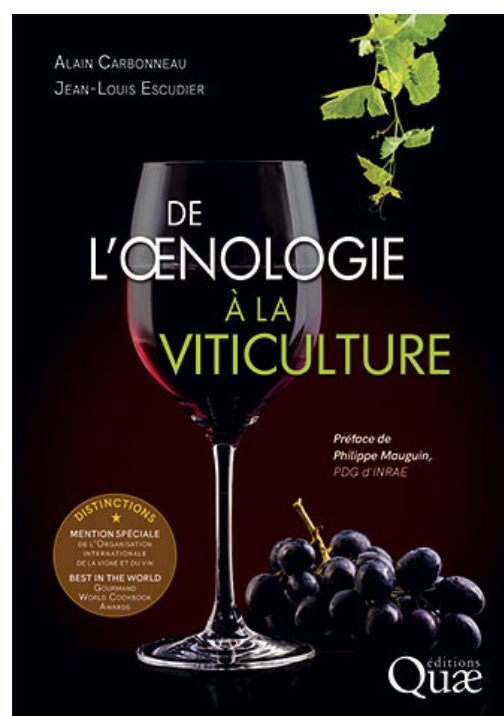
From Oenology to Viticulture

By Alain Carbonneau, Jean-Louis Escudier. Foreword by Philippe Mauguin

This richly illustrated book provides a complete overview of viticulture and wine: winegrowing conditions, wine components and microbiology, winemaking methods and processes, wine bottling, the wine production sector in France, wine tasting and sensory analysis and other grapevine products. Special attention is paid to high-end products (e.g., Champagne, Cognac), wine and cooking, wine-producing countries, wine consumption in France and around the world, and the health benefits of wine.

- **Authors renowned for their expertise and involvement in the worldwide influence of French viticulture and oenology.**
- **A complete work: conditions and methods of grapevine cultivation, the composition and elaboration of wine, the wine industry, sensory wine tasting and more.**

ISBN 978-2-7592-3469-1
Language: French
Quæ, 2022, ref. 02819
Pages: 304 p.
Format (in mm): 170 x 240
Colour
Price: €39



Alain Carbonneau is a specialist in ecophysiology and vine management and a professor of viticulture at Montpellier SupAgro. As the founder of the Institut des hautes études de la vigne et du vin (IHEV), he has created viticulture-oenology training courses and developed integrated research with INRAE's Pech Rouge experimental unit. He has written about innovations in vine management techniques, such as the lyre training system, and has chaired the GiESCO, a group of over 300 international experts, since 1980.

Jean-Louis Escudier was a researcher at INRAE's Pech Rouge unit. He was awarded a special engineering prize in 2007 for his work in oenology and technology related to quality improvement of wines and production diversification. Since then, he served as a member of various scientific committees within the wine industry and is now an expert for France at the International Organisation of Vine and Wine (OIV).

Foreword by Philippe Mauguin, CEO of INRAE

Today, the wine industry is organising itself by first determining the demand for wine and then by choosing practices adapted to the potential of the terroir. But the industry must now address profound market changes and the challenges of climate change. This book covers all the stages of winemaking, from the grapevine environment to the elaboration of wine itself as well as the tasting and health effects of wine. It touches on climates, soils, terroirs, grape varieties, vine health, growing methods, pruning, sustainable viticulture, official designations, vinification, wine composition, technical innovations, organoleptic qualities, research on polyphenols and aromas, and sensory tasting.



This well-illustrated book offers scientific explanations of the processes and shares the authors' comprehensive knowledge of all things wine. It is aimed at all readers interested in the world of wine, from winegrowers to oenologists and students.

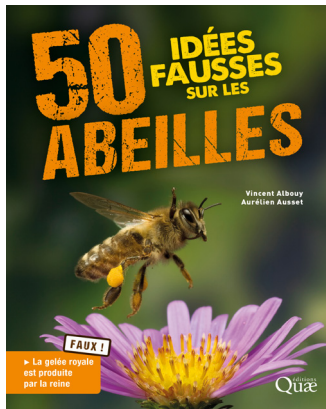


ALSO TO DISCOVER

The Grapevine: A Miracle of Nature? 70 Keys to Understanding Viticulture
 Frédérique Pelsy and Didier Merdinoglu
 ISBN 978-2-7592-3331-1, ref. 02789, €19



Collection: Misconceptions



ISBN 978-2-7592-4017-3
Language: French
Quæ, 2025, ref. 02985
Pages: 152 p.
Format (in mm): 165 x 220
Colour
Price: €23

Fifty Misconceptions about Bees

Vincent Albouy and Aurélien Ausset

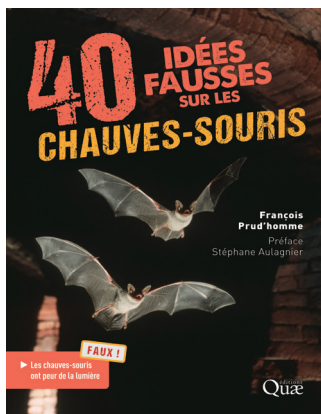
This book refutes preconceived ideas that are false or make abusive generalizations on subjects as diverse as the dependence of flowering plants on bees, competition between honey bees and wild bees, certain beekeeping practices, environments favourable to beekeeping, as well as the behaviour and social organisation of colonies and the habits of wild bees.

Fifty Misconceptions about Snakes

Françoise Serre Collet and Allain Bougrain Dubourg

In the course of her travels, the author collected 50 misconceptions about snakes, unloved animals that have given rise to many legends and continue to inspire extravagant rumours. She combats these beliefs, which are based on superstition and misunderstanding, with scientific explanations that are easy to understand and photos that highlight the beauty of these animals

ISBN 978-2-7592-3872-9
Language: French
Quæ, 2024, ref. 02936
Pages: 152 p.
Format (in mm): 165 x 220
Colour
Price: €23

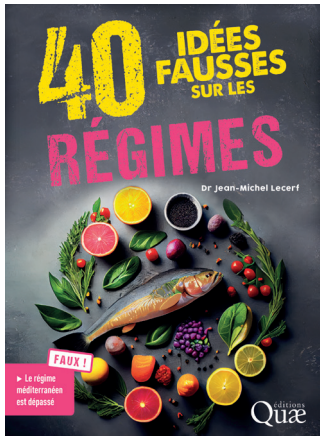


ISBN 978-2-7592-3741-8
Language: French
Quæ, 2022, ref. 02894
Pages: 144 p.
Format (in mm): 165 x 220
Colour
Price: €23

Forty Misconceptions about Bats

François Prud'homme and Stéphane Aulagnier

A fun, educational book that dispels preconceived ideas about bats. Ancestral beliefs and legends about bats abound. But is there really any truth to them? These chiropterans often inspire repulsion or fascination, influenced by literary and pictorial works of the imagination. These discreet animals, sensitive to the beam of our lights, are often there even if we don't know it. Their presence is only revealed at night: a silhouette under the moonlight, a figure flitting around a lamp post. Catholic tradition considers them shameful creatures and symbols of heresy. But none of the obscure superstitions attached to them stand up to the light of knowledge! In this book, the author debunks forty misconceptions about bats using facts from the fields of biology, ecology, and the humanities - along with astute observations.



ISBN 978-2-7592-3666-4
Language: French
Quæ, 2023, ref. 02892
Pages: 144 p.
Format (in mm): 165 x 220
Colour
Price: €18.50

Forty Misconceptions about Diets

Jean-Michel Lecerf and Allain Chaillot

What should we think about weight-loss diets, the countless elimination diets, medical diets, weight-gain diets or longevity diets?

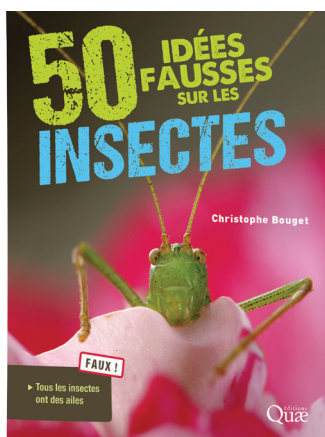
The forty most common diets are put under close scientific and medical scrutiny to set the record straight on the many misconceptions surrounding them. Learn everything you need to know to make the right choices and eat a healthy, varied and tasty diet!!

Fifty Misconceptions about Spiders

Christine Rollard and Mathieu Vidard

Spiders are very high on the list of the most unloved animals but they are largely misunderstood. This work dispels superstitions and myths about spiders with clear and accessible scientific explanations. Its fifty descriptions offer all nature-lovers an opportunity to better understand the fascinating world of spiders.

ISBN 978-2-7592-3239-0
Language: French
Quæ, 2022, ref. 02840
Pages: 160 p.
Format (in mm): 165 x 220
Colour
Price: €23



ISBN 978-2-7592-3488-2
Language: French
Quæ, 2022, ref. 02821
Pages: 160 p.
Format (in mm): 165 x 220
Colour
Price: €23

Fifty Misconceptions about Insects

Christophe Bouget

Insects are the largest group of animals today. Through clear and easily understandable scientific explanations, the author deconstructs the many misconceptions about them, shedding light on a world that is as vulnerable and fascinating as it is unknown.

Books
for scientists
and professionals

Les couleurs du vin - une palette exquisite

The Colors of Wine - An Exquisite Palette

By Bernard Valeur



ISBN 978-2-7592-3505-6
Collection: Hors collection
Language: French
Quæ, 2023, ref. 02888
Pages: 112 p.
Format (in mm): 140 x 205
Color
Price: €19

Why is the colour range of wine so extensive, so subtle and sometimes surprising? Colours can range from orange to mahogany, brown, almost black and even blue! What pigments are responsible for these hues? How do you characterise the colour of a wine? What does it say about a wine's origin, age and history?

In this book, wine colour is explored in detail. It is impossible to understand the wide variety of wine colours without delving into the vast world of polyphenols - sometimes coloured, sometimes not - which are abundant in grapes and wine, and the chemical reactions in which they are involved. Anthocyanins, tannins and other

phenolic compounds are involved in the extremely complex processes that govern colour. From the fluorescence of wines to the influence of prior observation of the colour of a wine on the perception of its flavour and aromas, the effects of light on the colour and taste of wine, and the protection provided by tinted glass bottles, this book covers an array of rarely discussed topics.

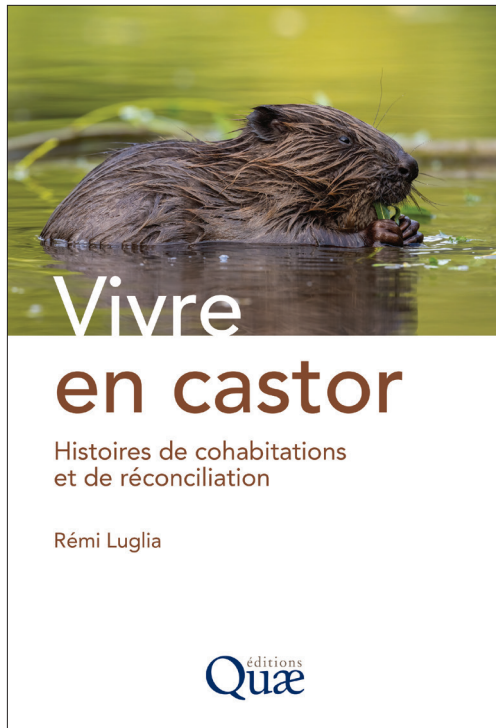
This concise and detailed book is aimed at professionals and students in the wine industry, as well as wine lovers and the scientifically curious.

Vivre en castor

Histoires de cohabitations et de réconciliation

Living as a Beaver - Histories and Stories of Cohabitations and Reconciliation

By Rémi Luglia



ISBN 978-2-7592-3884-2
Collection: Hors collection
Language: French
Quæ, 2023, ref. 02939
Pages: 160 p.
Format (in mm): 160 x 240
Color
Price: €22

Considered a “nuisance”, the European beaver was close to extinction at the end of the 19th century. It was saved by innovative protection measures. Very few endangered species have made such a comeback, making the beaver a case in point.

However, its return to anthropized waterways raises the question of its cohabitation with humans. Its success varies according to social environment, places and times, and depends on both human and animal adaptations.

The beaver surprises us with its ability to transform its behavior and to modify its environment. It consolidates and restores eco-

system functions, reinforces the ecological networks of wetlands and enhances biodiversity, all of which benefits human societies. His engineering talents bring new, nature-based solutions to amplify the resistance and resilience of socio-ecosystems in the face of accelerating environmental change.

In this book, Rémi Luglia tells the story of beavers and their lifestyles, their singular histories intertwined with those of humans, and how they adapt their behavior and environments. The author proposes a reasoned and sensitive path towards reconciliation between humans and other living beings.

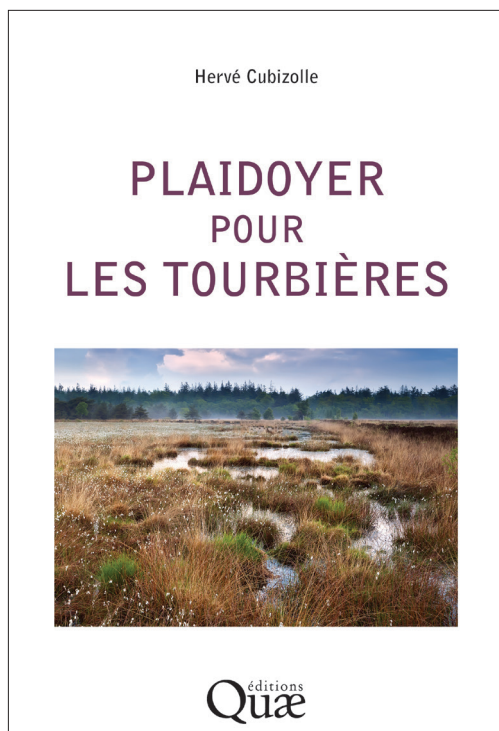
This book is aimed both at academics, naturalists and river stakeholders and actors, who will find well-documented, thought-provoking material here. Nature lovers will also enjoy discovering a curious and endearing animal!

Foreword by Éric Baratay

Plaidoyer pour les tourbières

A Plea for Peat Bogs

By Hervé Cubizolle



ISBN 978-2-7592-3846-0
Collection: Hors collection
Language: French
Quæ, 2023, ref. 02924
Pages: 176 p.
Format (in mm): 160 x 240
Color
Price: €28

Peat bogs are still relatively unknown wetlands. This book invites us to discover the peat bogs of the Massif Central highlands, the borders of Norway and Russia, Tierra del Fuego in Argentina, French Guiana, those of the Soufrière massif in Guadeloupe, the Azores, Central Europe and many others.

The author describes their origins, their history and their functions. He explains how human societies have used, and continue to use, the resources provided by these environments. It also describes the many ecosystem services they provide: refuge for biodiversity, regulation of flood and low-water flows, carbon storage, conservation of natural archives, heritage interest, etc.

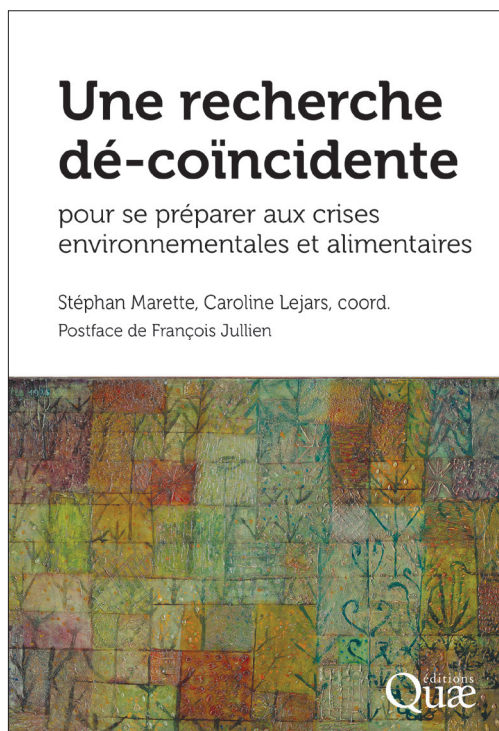
Around 80 to 85 percent of the world's peat bogs are still free from serious damage affecting their functioning. But their conservation management needs to be taken into account now, so that appropriate protection measures can be adopted quickly.

This book is the result of a desire to promote peat bogs to a non-specialist public curious about this unknown ecosystem. Wetland managers, students and naturalists will also find it of interest.

Une recherche dé-coïcidente pour se préparer aux crises environnementales et alimentaires

A de-coincident research to prepare for environmental and food crises

By Stéphane Marette, Caroline Lejars



ISBN 978-2-7592-3894-1
Collection: Hors collection
Language: French
Quæ, 2024, ref. 02943
Pages: 164 p.
Format (in mm): 140 x 205
Color
Price: €18.50

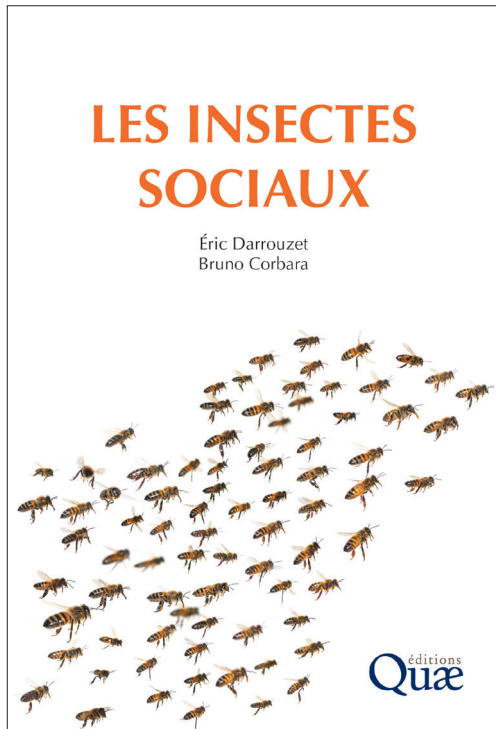
Rethinking research and defining innovative solutions and effective public policies to respond to future environmental and food crises.

This work offers anticipatory visions and prospective analyzes based on the concept of “de-coincidence”, developed by the philosopher François Jullien. The three “de-coincident” essays aim at designing pathways that would make it possible to prepare for the transformations to come. The first essay discusses institutional solutions for promoting de-coincident research. The next one focuses on a fictitious “worst-case” scenario in a context of extreme global warming. Eventually, the last essay analyzes what we can do “right now” to brace for “the worst” and prevent certain crises from occurring.

Les insectes sociaux

Social Insects

By Éric Darrouzet and Bruno Corbara



ISBN 978-2-7592-3904-7
Collection: Hors collection
Language: French
Quæ, 2024, ref. 02945
Pages: 130 p.
Format (in mm): 140 x 205
Color
Price: €12

Life in society: an evolutionary success story!

That's what we're learning from wasps, bees, ants and termites, insects that have been around since the age of the dinosaurs and whose ecological success is remarkable.

Social insects offer us many things to marvel at: their altruistic behaviour, their original modes of communication, their systems of cooperation, their architectural achievements and their interactions with other living beings. Their ability to modify the environment sometimes makes them true engineers of the ecosystem. Their performance inspires us to produce innovative materials and develop robotics applications. A highly accessible summary of

these fascinating animals, little known to the general public, this book will be of interest to naturalists and enthusiasts of ecology, ethology and entomology.

This title is adapted from the book *Les insectes sociaux* published by Quæ in 2016, in the Carnets de sciences collection.

Le mal du dehors

L'influence de l'environnement sur la santé

The Evil Outside
The Influence of our Environment on Health

By Rémy Slama



ISBN 978-2-7592-2699-3
Language: French
Quæ, 2022, ref. 02594
Pages: 376 p.
Format (in mm): 150 x 230
Black and white
Price: €22

This book provides the first comprehensive overview of environmental pollutants such as perchlorates, nonylphenols, ultraviolet rays, ozone, DDT and climate change and their effects on human health. Their health consequences, both visible and invisible, are brought sharply into focus. Specific examples of how the risks posed by some of these products are managed highlight the very different ways in which our society deals with health threats. Environmental factors may encompass all biotic or abiotic factors outside the body as well as those found inside the body but not originating from it. They can be of physical, chemical, social or biological nature (with the latter including infectious agents).

This book mainly deals with the two first types of environmental factors, and specifically their relation to human health. While this book adopts a clear anthropocentric perspective, environmental factors can also be defined with respect to any other species than *Homo sapiens*. Indeed, many environmental factors that affect human health are also noxious to other species. The definition of pollution is more restrictive and, in a way, more complex. Pollution refers to something that does not belong. It is defined as the introduction of factors causing harmful or adverse changes in an environment; it is a 'stain' and was originally used with regard to aquatic environments and later to the air. Pollution is sometimes visible, as when a smog thick with sulphur dioxide blanketed the city of London in December 1952, creating a darkness that obscured even the street lights, bringing road traffic and activities to a halt, sending tens of thousands of people to hospital, and killing thousands. Sometimes pollution is heard, like when an industrial accident struck at the Seveso plant near Milan in 1976. Airborne dioxin was released with immediate effects on livestock and wildlife, which were decimated. Meanwhile, the health consequences on humans only began to become apparent several decades later. Pollution is also felt, such as during the heat waves in Chicago in 1995, in Paris and all of Europe in August 2003, or in Moscow in the summer of 2010.

But pollution is very often invisible. This was the case in the early stages of the Minamata disease epidemic in Japan, when it was not known whether the rising numbers of neurological disorders were due to an infectious cause, alcohol or, as it turned out, contamination from industrial mercury derivatives of the fish and seafood consumed by the local population.

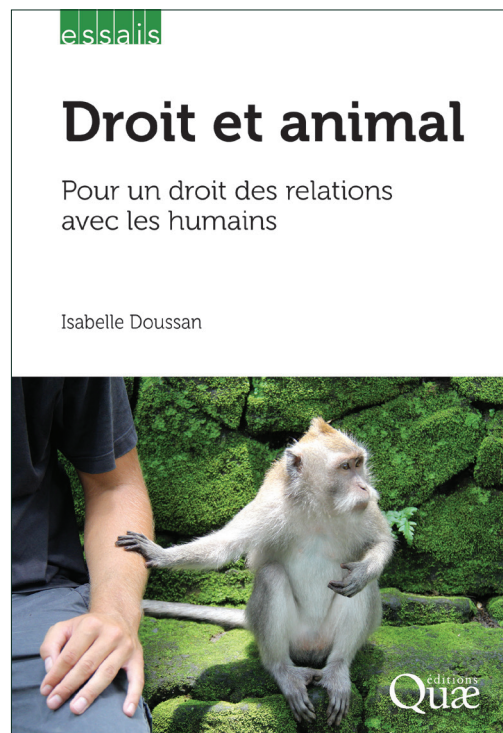
Rémy Slama is a research director at Inserm, where he heads up the environmental epidemiology team whose research focuses on reproduction and respiratory health.

Droit et animal

Vers un droit des relations avec les humains

Law and Animals - Towards a Law of Relations with Humans

By Isabelle Doussan



ISBN 978-2-7592-3829-3
Collection: Essais
Language: French
Quæ, 2024, ref. 02921
Pages: 88 p.
Format (in mm): 140 x 205
Black and white
Price: €16

The legal treatment of animals is rarely thought of in relational terms, even though the relationships between humans and animals are diverse and very real. As part of a current of thought on the relationships between humans and non-humans, this book looks at domestic and wild animals in the field of law and explores, without the list being exhaustive, a diversity of relationships: utility, risk, protection, attachment.

This diversity should not obscure the fact that the law is also an instrument of the power that humans exercise over animals, and that it sets the limits of this power. Their sentience, often regarded as an intrinsic property recognised by the law, can call into question the relationship of power we have with animals. While refusing the temptation of legal personification, the author lays the founda-

tions for a law of animal production by mobilising the notions of vulnerability and necessity.

This work shows that the law is in tune with changes in our relationship with animals, and suggests possible avenues of development that everyone - civil society players, livestock farming professionals and researchers - can take up.

La pêchécologie

Manifeste pour une pêche vraiment durable

Ecological Fishing - a Manifesto for Truly Sustainable Fishing

By Didier Gascuel



ISBN 978-2-7592-3631-2

Collection: Essais

Language: French

Quæ, 2023, ref. 02871

Pages: 96 p.

Format (in mm): 140 x 205

Black and white

Price: €15

In just a few decades, maritime fishing has caused significant damage, emptying the sea of important resources and deeply disrupting the functioning of marine ecosystems. Authorities consider it as the primary cause of marine biodiversity loss. However, it is possible to do things differently and reverse the trend to rebuild healthy, productive and resilient ecosystems. A new form of fishing must be created, one which strives to reconcile biodiversity preservation and sustainable exploitation of marine living resources. Ecological fishing - a form of agroecology applied to the ocean - aims to do just that. The book presents this new concept from an ecological, economic, social, cultural, ethical and societal perspective, providing concrete answers to make marine fishing truly sustainable.

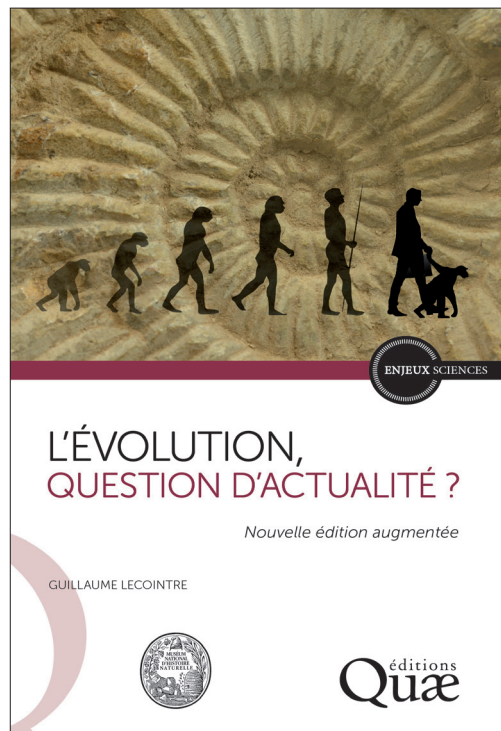
In this essay, Didier Gascuel identifies the changes needed to break away from productivism and economic liberalism. It offers practical solutions to minimise the impact of fishing on ecosystems and maximise the social usefulness of the goods provided by nature. The book also demonstrates the urgent need for major changes in the face of disruptions caused by climate change, outlining the prospect of a more sustainable approach to fishing that serves human societies and coastal areas by putting people front and centre in tackling today's biggest natural challenges.

This book is intended for all sea lovers concerned about marine life, actors of maritime fisheries management, and anyone who wishes to reflect on the economic and social issues of ecological transition.

L'évolution, question d'actualité ?

Evolution in All its Forms

By Guillaume Lecointre



ISBN 978-2-7592-3672-5
Collection: Enjeux sciences
Language: French
Quæ, 2023, ref. 02879
Pages: 136 p.
Format (in mm): 120 x 190
Black and white
Price: €12,50

The mechanisms of evolution are reviewed by a great museum specialist to explain in simple terms the way living organisms, individuals and society are organised today. The latest scientific discoveries and concrete examples illustrate the commentary. Evolution is the process by which living things change with each generation. While the subject has been touched on by a number of philosophers during antiquity and the European Enlightenment, it was not until the nineteenth century that the concept really emerged. Did humans invent evolution? Is nature "well made"? Can you learn to be a parent? Are fidelity, infidelity, homosexuality and infanticide just evolutionary nonsense? What do we pass on to the next generation?

Is society a super-organism? Can evolution be used to fight cancer? Do languages evolve? With our technological progress, have we not stopped evolving?

These are just some of the intriguing, and sometimes disturbing, questions that the author explores in a new and fascinating way, combining social issues with scientific discoveries.

Guillaume Lecointre is a systematist, ichthyologist and professor at the French National Museum of Natural History, where he heads the Systematics and Evolution research department. He has been instrumental in training science teachers. He has published over 100 professional articles in international journals, a dozen books and more than 400 articles disseminating knowledge.

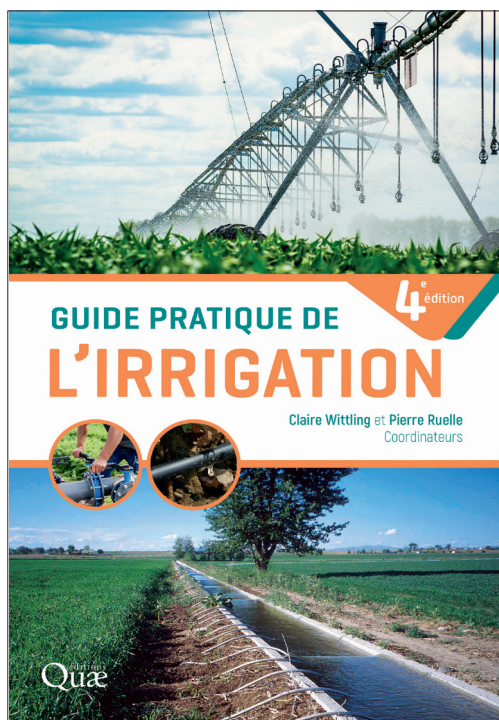
Guide pratique de l'irrigation

4^e édition

A Practical Guide to Irrigation

4th edition

By Claire Wittling and Pierre Ruelle



ISBN 978-2-7592-3245-1

4th edition

Language: French

Quæ, 2022, ref. 02759

Pages: 354 p.

Format (in mm): 160 x 240

Colour

Price: €39

This practical handbook provides basic knowledge of hydraulics, pumping plants and different irrigation techniques, and illustrates efficient water and energy use in irrigation. It also offers up-to-date analytics and decision-support tools for irrigation set-up and management.

Climate change and the transition to agroecology underscore the growing importance of prudent water use in agriculture. Irrigation is a subject of extensive debate regarding the enhancement of its

technological, agronomic, and environmental efficacy. It serves as a key strategy for adapting to and mitigating the impacts of climate change. To ensure that irrigation can truly fulfil this role while supporting sustainable aquatic ecosystems along with water and energy resources, we need a deeper understanding of the existing tools and equipment and how they are used.

The fourth edition of this practical guide expounds upon fundamental principles of hydraulics, pumping stations, various irrigation methods (such as sprinkler, localized, and surface irrigation), and showcases the water and energy efficiency associated with irrigation practices. It also offers contemporary analyses and decision-making aids for irrigation management and control, spanning from regional levels to individual plots.

In addition to the comprehensive information provided in this book, numerous references to digital content, such as hydraulic calculators and case studies, are also included. The book has been collaboratively produced under the auspices of the French Association for Water, Irrigation, and Drainage (Afeid), in close partnership with research and development organisations and technical institutes. Its intended audience comprises all stakeholders engaged in irrigation and water management, including farmers, development advisors, engineers, and technicians.

L'agriculture de conservation des sols

Soil Conservation Agriculture

By Stéphane Cordeau, Pierre-Alain Maron, Jean-Pierre Sarthou, Bruno Chauvel



ISBN 978-2-7592-3566-7

Collection: Savoir faire

Language: French

Quæ, 2024, ref. 02862

Pages: 420 p.

Format (in mm): 160 x 240

Color

Price: €35

Soil conservation agriculture is at the heart of debates on the role of agriculture in preserving soil quality and biodiversity, the necessary reduction in the use of plant protection products, and in mitigating and adapting to climate change.

In its strictest definition, this form of agriculture implements three main principles: non-disturbance of the soil, diversity of cultivated species and maximum soil coverage by crops and living or dead cover.

Based on the most recent research from around the world, this book takes stock of what is known about soil conservation agriculture in temperate environments, while highlighting the gaps that still need to be filled. It looks at its sustainability, particularly in view of the withdrawal of glyphosate - a herbicide still widely used in this system - and its technical feasibility in a variety of production situations. It presents several case studies, in France and abroad, and concludes with a 'true, false or not so simple' sequence that is intended to fuel scientific debate on questions that are very often asked.

Soil conservation agriculture is used here as a pretext for a more general review of the impact of agriculture on the environment and its fundamental role, as well as that of farmers, as levers for action in the face of current and future challenges. This summary is aimed at a professional audience, but also at any reader wishing to find out more about soil conservation agriculture.

L'immunité des plantes

Pour des cultures résistantes aux maladies

*Plant Immunity
For Disease-Resistant Crops*

By Christian Lannou, Dominique Roby, Virginie Ravigné, Mourad Hannachi and Benoît Moury



ISBN 978-2-7592-3233-8

Collection: Savoir faire

Language: French


Quæ, 2021, ref. 02764

Pages: 392 p.

Format (in mm): 160 x 240

Colour

Price: €39

Open access e-book 

Understanding how plant immunity works and deciphering the defences that plants use against pest attacks are essential to produce resistant varieties and reduce agriculture's dependence on pesticides. This book explains the fundamental concepts and is based on case studies that provide a comprehensive review of work conducted in the fields of biology, modelling and social sciences on plant immunity.

WINNER OF THE
34TH ROBERVAL PRIZE,
"HIGHER EDUCATION"
CATEGORY.

INRAE

Qualité du café

L'impact du traitement post-récolte

Coffee Quality

The Impact of Post-Harvest Processing

By Michel Barel



ISBN 978-2-7592-3206-2

Collection: Savoir faire

Language: French


Quæ, 2020, ref. 02746

Pages: 112 p.

Format (in mm): 160 x 240

Colour

Price: €30

Open access e-book 

Coffee quality is a multifaceted characteristic that is determined during post-harvest processing. It is during this complex process that the distinctive qualities of each type of coffee emerge. The author shares his experience with growers, buyers, roasters and even consumers, and lifts the veil on the enigma of what makes coffee excellent. From the beginning of the harvest to the final stage of storage, every action taken by the coffee grower affects the entire spectrum of quality, but growers often remain unaware of the extent of their impact. This book meticulously dissects the actions that influence coffee value, enabling growers to make informed choices to satisfy customers.

This comprehensive guide serves as a compass for coffee buyers and roasters, enabling them to trace a coffee's history, rectify potential defects and establish solid specifications in collaboration with producers. It equips them with the knowledge they need to engage in fruitful conversations with suppliers, helping them to select the optimum quality and discern the desired aromas. It fosters a better appreciation and understanding of the complexity of coffee quality.

Michel Barel began his career as a biochemist, first at Kodak-Pathé, where he analysed silver-gelatin emulsions, then at Lesieur-Cotelle, where he explored oils, mayonnaise, margarine and other food products. In 1972, he joined the Institut de Recherches du Café et du Cacao (IRCC), which later became a division of the French Agricultural Research Centre for International Development (CIRAD).

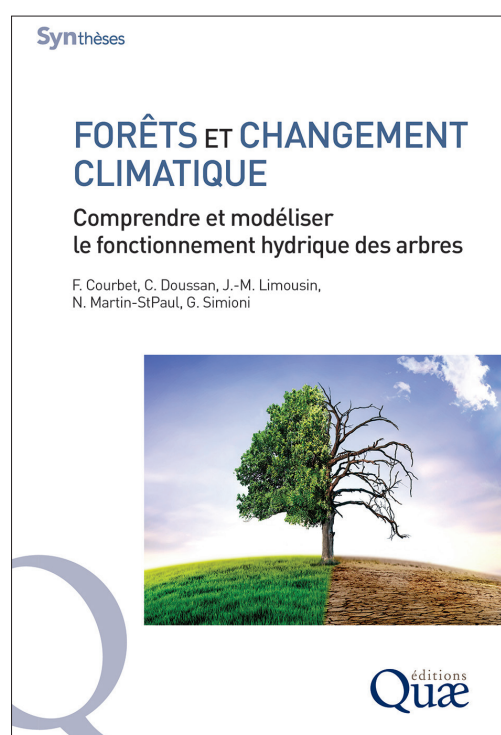
Forêts et changement climatique


Comprendre et modéliser le fonctionnement hydrique des arbres

Forests and Climate Change

Understanding and Modelling Tree Water Balance

By François Courbet, Claude Doussan, Jean-Marc Limousin,
Nicolas Martin-StPaul and Guillaume Simioni



ISBN 978-2-7592-3457-8
Collection: Synthèses
Language: French
Quæ, 2022, ref. 02815
Pages: 144 p.
Format (in mm): 160 x 240
Colour
Price: €25
Open access e-book 

In times of climate change, drought is a major risk for forests. This book presents basic knowledge about the water balance of trees, the observable indicators of the effects of drought, and forest management models. This pedagogical and abundantly illustrated book provides readers with all the knowledge they need to understand, observe and anticipate the effects of climate change on forests. It is an indispensable tool for students, teachers, forestry professionals, researchers, development and public policy stakeholders, and more.

François Courbet studies the dynamics of forestlands (regeneration, growth, production, mortality, etc.) at INRAE.

Claude Doussan conducts research for INRAE on water in the soil and its transfer from soil to plants.

Jean-Marc Limousin, a CNRS researcher, works on the functioning, vulnerability and acclimatisation of forests under climate change.

Nicolas Martin-StPaul, a researcher at INRAE, focuses on the response of trees and forests to drought.

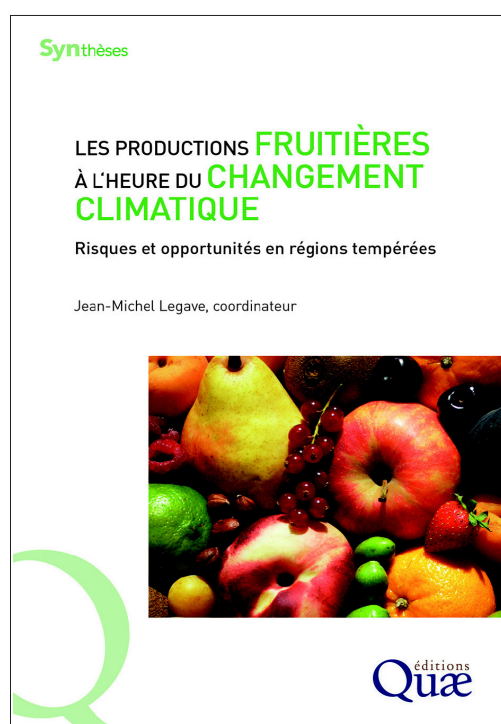
Guillaume Simioni, also a researcher at INRAE, analyses the effect of climate on the carbon and water balance of forests.

Les productions fruitières à l'heure du changement climatique

Risques et opportunités en régions tempérées

Fruit Production in the Time of Climate Change Risks and Opportunities in Temperate Regions

By Jean-Michel Legave



ISBN 978-2-7592-3251-2

Collection: Synthèses

Language: French

Quæ, 2022, ref. 02763

Pages: 464 p.

Format (in mm): 160 x 240

Colour

Price: €36

Open access e-book 

Fruit is an essential part of our diet. This book, written by a group of researchers and industry professionals, gathers knowledge on the challenges and possibilities for adapting the fruit sector to climate change.

Fruit production in temperate climates plays a pivotal role in our dietary habits, relying on a diverse array of crops often unique to regions with distinct climatic conditions. What impact will climate change have on the performance, diversity, and distribution of

these crops? Will these effects heighten the inherent vulnerabilities of fruit production while simultaneously creating opportunities for newfound vitality? What tools and strategies can be employed to anticipate the adaptation of fruit crops to climate change? How can climate adaptation align with economic competitiveness?

In pursuit of answers to these questions, this book presents an extensive panorama of knowledge encompassing climate trends and forecasts, as well as the ecophysiological and agronomic processes governing fruit plant production. An examination of potential or already documented climate change impacts across various production levels delineates the foreseeable challenges, particularly concerning phenology, water stress, fruit quality, and pest management. Furthermore, it explores diverse approaches likely to steer planned adaptations, drawing insights from initiatives already implemented in warmer climates.

Enriched with illustrations and authored by about forty experts, this book compiles scientific discoveries, data, tools, and viewpoints. It serves as a valuable resource for professionals, researchers, educators, and students invested in the future of fruit production, facilitating a deeper comprehension of the pertinent issues and potential avenues for adapting fruit production to the realities of climate change.

Agronomist **Jean-Michel Legave** was a director of research at INRAE. His research has focused on the knowledge and improvement of fruit production and, since 2000, the effects and anticipation of climate change.

INRAE

Une écologie de l'alimentation

An Ecology of Food

By Nicolas Bricas, Damien Conaré, Marie Walser. Foreword by Claude Fischler



ISBN 978-2-7592-3352-6

Language: French

Éditions Quæ, 2022, ref. 02796

Pages: 312 p.

Format (in mm): 160 x 240

Colour

Price: €21

Open access e-book 

“Food shapes our lives [...]. We may not be aware of its influence, but it is everywhere: even in the parts of our brain that can't stop wondering about the meaning of life. Food's effects are so ubiquitous that they can be hard to spot, which is why learning to see through the lens of food can be so revelatory. One perceives a remarkable connectivity: an energy that flows through our bodies and world, linking and animating everything as it goes.”

Carolyn Steel, Sitopia (2020)

Rethinking what we eat means rethinking our societies. Sharing a meal, and even shopping, are ways of connecting with others. The way we eat affects our health. Our agricultural production methods shape our landscapes and define our place in nature. Managing resources to produce, process and distribute food underpins our economies. Our registers of edibles, our cuisines and our food habits tell the story of our cultures. And last but not least, eating is a pleasure. It is by recognising all these dimensions as being of equal importance that this book tackles the contemporary issues surrounding food. The proposal for an ecology of food is rooted in both a science of relationships and a political commitment. Such an approach makes it possible to revisit, sometimes in unexpected ways, the watchwords of sustainable food. It also aims to nurture citizen, public and private initiatives to transform food systems. Part expert essay, part illustrated story of examples from around the world, this book is aimed at both professionals and the general public interested in sustainable food issues.

Anniversary publication
of the UNESCO Chair
on World Food Systems.



Attachements et changement dans un monde en transformation

Attachment and Change in a World in Transformation

By François Bousquet, Tara Quinn, Frédérique Jankowski, Raphaël Mathevet, Olivier Barreteau, Sandrine Dhénain, Andrés Di Masso and Audrey Richard-Ferroudji



ISBN 978-2-7592-3349-6

Language: French

Éditions Quæ, 2022, ref. 02795

Pages: 126 p.

Format (in mm): 150 x 230

Black and white

Price: €19

Open access e-book 

This book invites readers to consider the attachment and relationships involved in change in social and ecological systems. Attachment may indeed give people a feeling of safety, which can support transitions.

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Preface

Introduction

The context: changing with the world • Identifying attachments to understand change
• Does attachment restrict or promote change? • What affects relationships

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• Lessons and outlook

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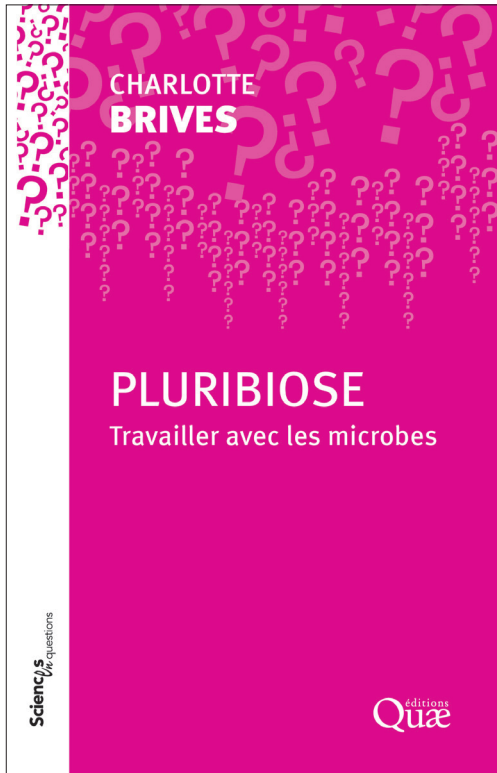
Conclusion

Postface. Dealing with multiple attachments

Pluribiose - Travailler avec les microbes

Pluribiosis - Working with microbes

By Charlotte Brives



ISBN 978-2-7592-3881-1

Collection: Sciences en question

Language: French


Quæ, 2023, ref. 02940

Pages: 76 p.

Format (in mm): 120 x 190

Black and white

Price: €9.50

Open access e-book 

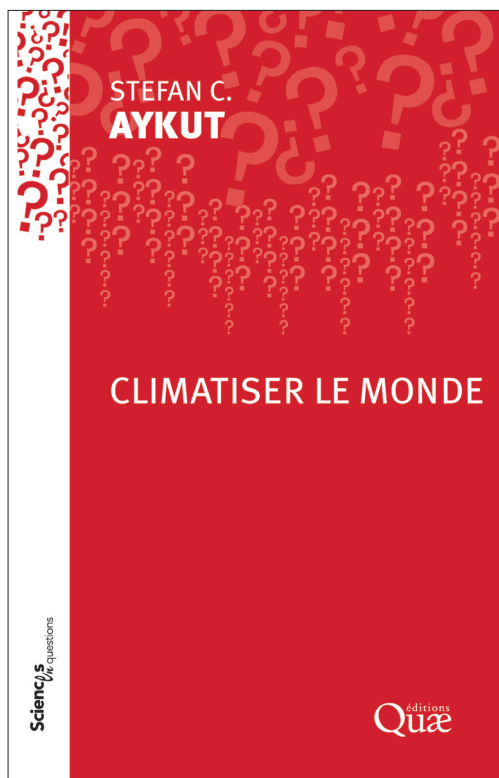
Scientists regularly use microbes in their research. However, they often overlook their richness and action's and reaction's potentialities, particularly in their attempts to control or eradicate them. Antimicrobial resistance, a health scourge that is still largely underestimated, illustrates particularly well the consequences of industrial capitalism's massive use of microbes to manufacture antibiotics.

This observation is the starting point for the reflection carried out in this work: the production and use of scientific knowledge are not independent of the conditions in which this knowledge is obtained. Concerning microbes, the author shows the importance of taking into account the tangled and constantly evolving relationships that link them to human societies, and more generally that link living beings together. What she describes as pluribiosis.

Climatiser le monde

Cooling the World

By Stefan C. Aykut



ISBN 978-2-7592-3093-8

Collection: Sciences en question

Language: French


Quæ, 2022, ref. 02716

Pages: 82 p.

Format (in mm): 120 x 190

Black and white

Price: €9.50

Open access e-book 

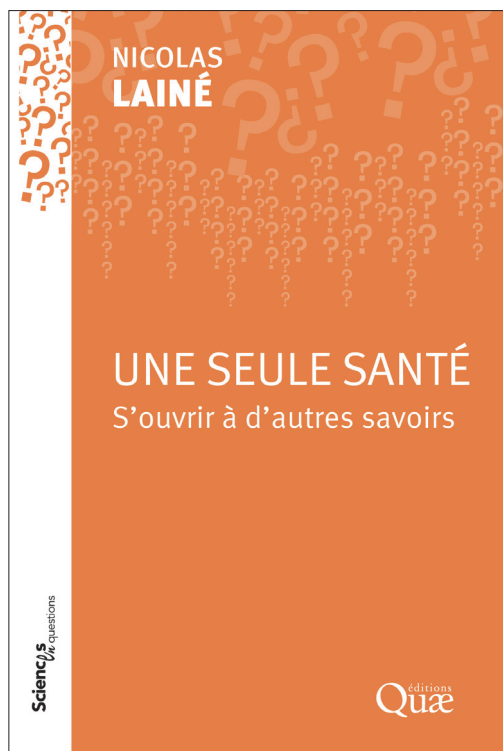
This book looks at international climate negotiations and how they evolve. The author suggests that current changes stem from “climate globalisation” and the “cooling of the world”. After reviewing the history of global climate governance, he looks at the Paris Agreement signed in 2016 following COP 21. This agreement is based on mobilising all aspects of the global civil society, fuelling the phenomenon of world cooling and contributing to its recent acceleration. The author bases his arguments on two examples that are strongly affected by the rising attention given to climate issues: energy policies and soil science research.

Stefan C. Aykut is an assistant professor of sociology at Universität Hamburg and Director of the Center for Sustainable Society Research (CSS). He received the Heinz Maier-Leibnitz Prize from the DFG–German Research Foundation in 2019.

Une seule santé S'ouvrir à d'autres savoirs

One Health - Opening up to other forms of knowledge

By Nicolas Lainé



ISBN 978-2-7592-4035-7

Collection: Sciences en question

Language: French


Éditions Quæ, 2024, ref. 02989

Pages: 80 p.

Format (in mm): 120 x 190

Black and white

Price: €9.50

Open access e-book 

Since the Covid-19 pandemic, the One Health initiative has been widely endorsed by politicians and scientists alike, highlighting the interdependence between human, animal and environmental health, and bringing these disciplines together around a single approach. Putting One Health into practice now leads to reflect on the integration of other forms of health knowledge, in particular that of local communities.

Drawing on his fieldwork experiences in Asia, Nicolas Lainé shows that local knowledge is dynamic and constantly in recomposition. He highlights the contribution of certain local practices to health risk prevention. Reduced to the provision of information or data,

the holders of this “other” knowledge are often excluded from the knowledge production process. On the contrary, the author proposes to integrate all the richness and complexity of relationships with living beings into a networking of local human and non-human knowledge, considering all stakeholders as full partners in research.

Starting with the promises and rise to power of the One Health approach, this book takes a broader look at what makes science.

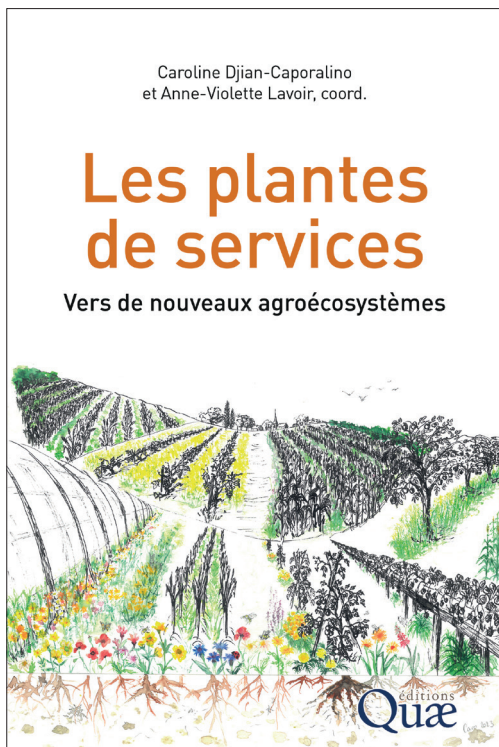
Nicolas Lainé is an anthropologist, Research Fellow at IRD, UMR PALOC (IRD-MNHN-CNRS).

His work focuses on human-animal relations, health systems and local knowledge in South and Southeast Asia. He examines the complex links between biodiversity, society and health, and proposes a reflection on the co-production of knowledge.

Les plantes de services Vers de nouveaux agroécosystèmes

Service plants – Towards new agroecosystems

By Caroline Djian-Caporalino, Anne-Violette Lavoir



ISBN 978-2-7592-3978-9

Language: French

Éditions Quæ, 2024, ref. 02968

Pages: 388 p.

Format (in mm): 160 x 240

Colour

Price: €40

Reducing crop dependency on synthetic chemical inputs is essential to adopt a more sustainable form of agriculture more respectful of the environment and human health. One solution is to optimize ecosystem services by increasing the functional diversity of plants in and around agrosystems. In this context of agroecological transition, the use of service plants is a promising and original method.

This book offers a comprehensive summary of the knowledge acquired on all types of service plants, on all types of crops (field crops, vegetable crops, vines, arboriculture...), in temperate and tropical environments. It addresses their mechanisms of action, the potential

for multiservices rendered, the risks for disservices, the choice of service plants and their implementation in different cropping systems and climates. It invites us to take a step back from intensive cropping systems and their specialization, and to design complex, adaptive and resilient agroecological systems that meet current challenges in an increasingly uncertain context: climate change, biodiversity loss, food security, energy resources...

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Comparing service plant use practices in different cropping systems • Service plants in the transition from agrosystem to agroecosystem

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Sortir des crises

One Health en pratiques

Leaving crises behind – One Health in practice

By Sébastien Gardon, Amandine Gautier, Gwenola Le Naour, Serge Morand and Jean-Luc Angot

Sortir des crises

One Health en pratiques

Sous la direction de
Sébastien Gardon, Amandine Gautier,
Gwenola Le Naour et Serge Morand



éditions
Quæ

ISBN 978-2-7592-3297-0

Language: French

Éditions Quæ, 2022, ref. 02780

Pages: 264 p.

Format (in mm): 160 x 240

Black and white

Price: €35

Drawing from numerous examples from the field, at the local and international levels, this book decompartmentalises health issues to identify new avenues for rethinking the connections between species, territories and the various interacting players.

One Health consists in highlighting the very strong interdependencies between human, animal and ecosystem health. Thanks to the collaboration of researchers and practitioners, this book decompartmentalises health issues and puts forward new ways to think about the connections between species, territories and the stakeholders who interact with them.

By bringing together several disciplines – philosophy, anthropology, political science, sociology, economics, geography, ecology, medical and veterinary sciences, and more - this book examines health issues in a globalised world, lessons from crisis management and innovations in health management based on social and community aspects. It also discusses standards and regulations at all political levels.

This book is aimed at professionals and students interested in public health issues, health crises and the One Health approach.

La montée du niveau de la mer d'ici 2100

Scénarios et conséquences

Sea Level Rise by 2100 – Scenarios and Consequences

By Denis Lacroix, Olivier Mora, Nicolas de Menthère and Audrey Béthinger



ISBN 978-2-7592-3307-6

Language: French


Éditions Quæ, 2021, ref. 02786

Pages: 128 p.

Format (in mm): 145 x 215

Colour

Price: €25

Open access e-book 

Sea level rise is an unavoidable phenomenon that will affect coastal regions where large swaths of the world's population and economic activities are concentrated. Planning ahead for these risks is a major challenge for public policymakers as well as private stakeholders, who must come up with solutions to adapt and secure coastline zones. Based on the IPCC's key projections, this book explores the issues and consequences of several sea level rise scenarios by 2100.

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