Marc-André Selosse

A mycologist and botanist, working in particular on mycorrhizal symbioses

The beginning

- With a father who was a civil engineer and a mother - geographer he spent his vacations in Belle-Ile-en-Mer, in the Morbihan region of France.
- “I've always loved talking about nature, where I've been hanging out since I was a kid,”

Le Monde (17_02_2024)

He fondly remembers his wanderings in the Bois de Vincennes
"I used to come here with my grandfather on the number 56 bus. I remember the great sense of joy I felt just at the sight of these huge stones"

- Marc-André Selosse is a professor at
  - the Muséum national d'Histoire naturelle in Paris ,where he heads research team
  - the Universitiy of Gdansk (Poland), he was a leader in MAESTRO GRANT

  - He was a visiting profesor in Brazil and in China (The University of Kunming)

He is a lecturer at Ecole Normale Supérieure, Science Po and Hautes Etudes Commerciales (HEC).

Selosse, Marc André

Uniwersytet Gdański, Gdansk, Poland • Scopus ID: 6603712922 • Connect to ORCID

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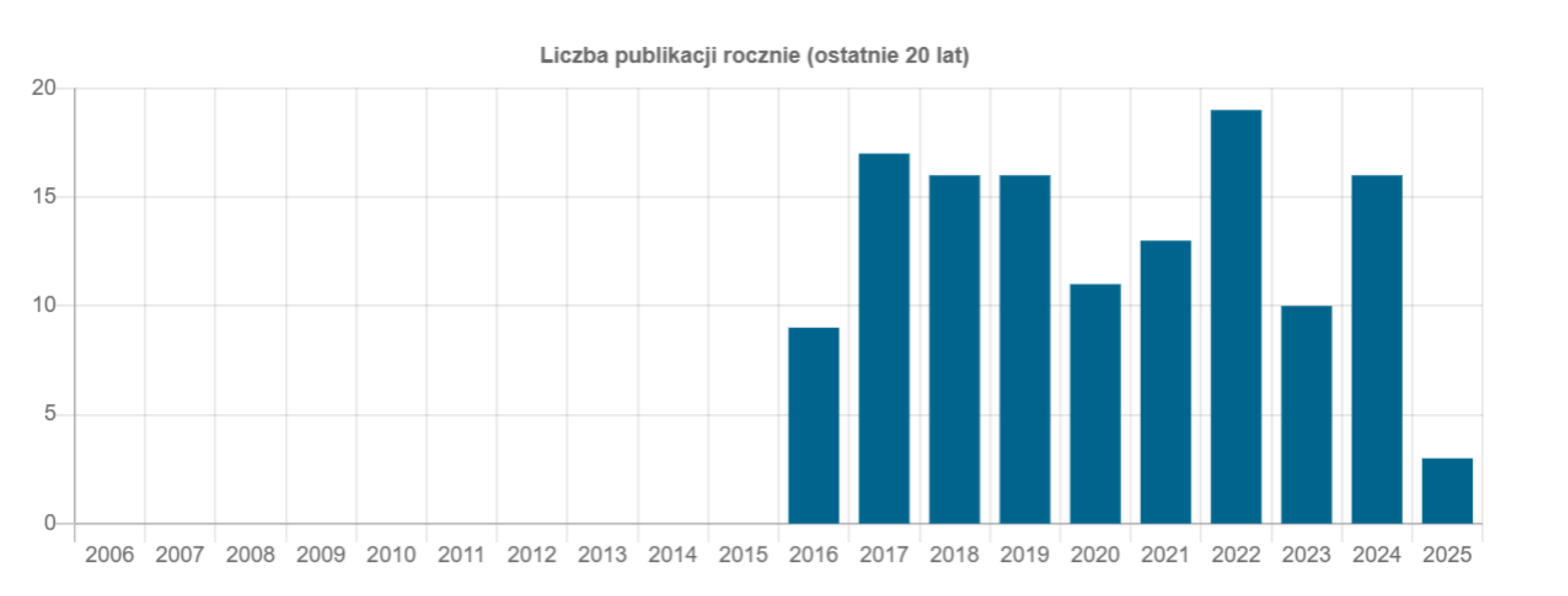
12,950	243	61
Citations by **7,464** documents	Documents	*h*-index

He is not only a mentor, but is involved in fields studies. This picture was taken by his collegue from University of Gdańsk. His favorite saying is „on y va” which encourages further efforts and activities.

Uniwersytet Gdański. University of Gdańsk



President of BioGée,

Member of the Académie d'Agriculture de France

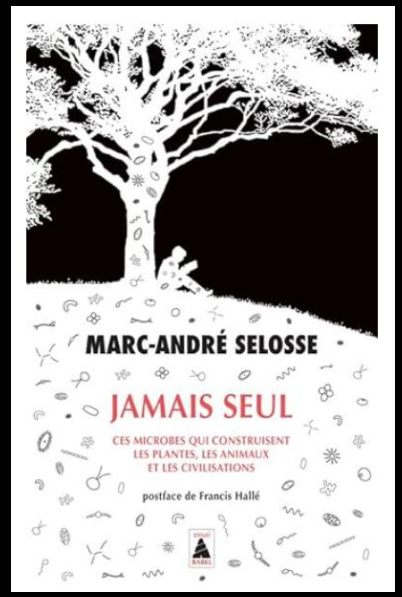
Member of the Institute Universitaire de France, Editor of four international scientific journals and the popular magazine *Espèce*.

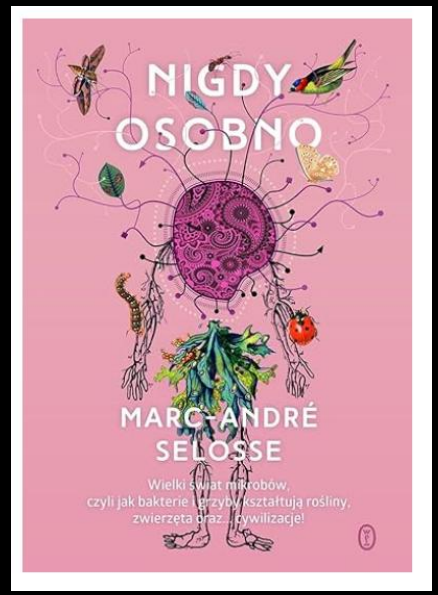
He has published more than 250 popular articles, which can be downloaded from his website, and a hundred or so videos are available on YouTube.

He is known as the excellent teacher and the accomplished author

NEVER ALONE

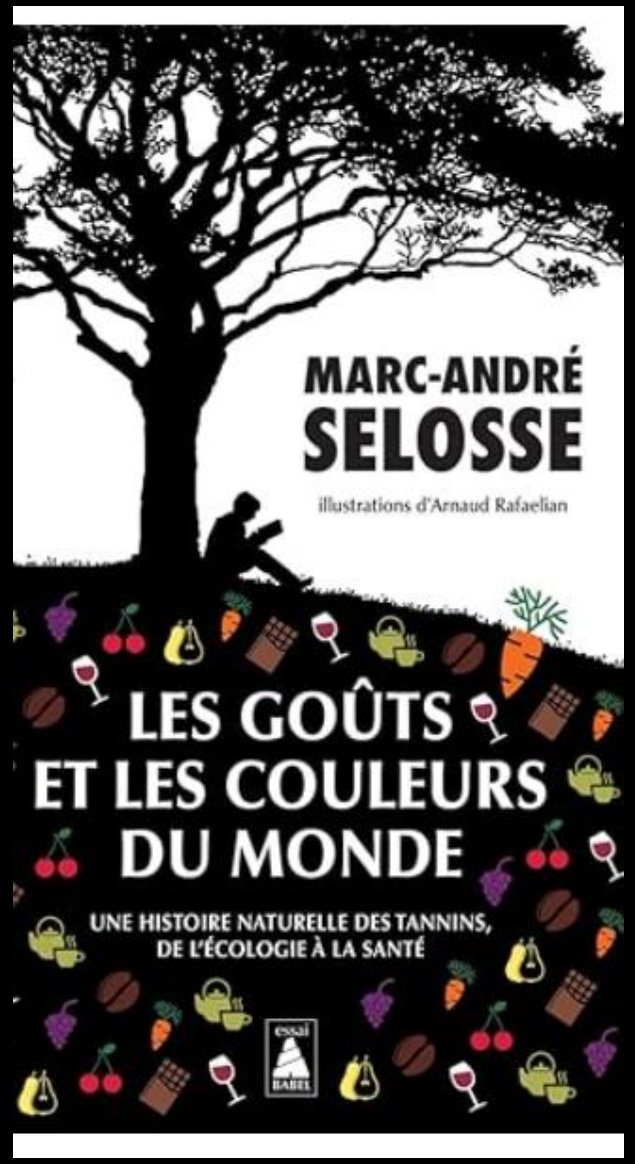
- Plants and animals depend on microorganisms
- Comprehensive story of many symbiotic relationships between microbes and living organisms in adaptations,
- Description of the human microbiota—and their contributions to our existence.
- Demonstration of the importance of microbes in the cultural and dietary practices that have shaped civilizations and continue to accompany us today.





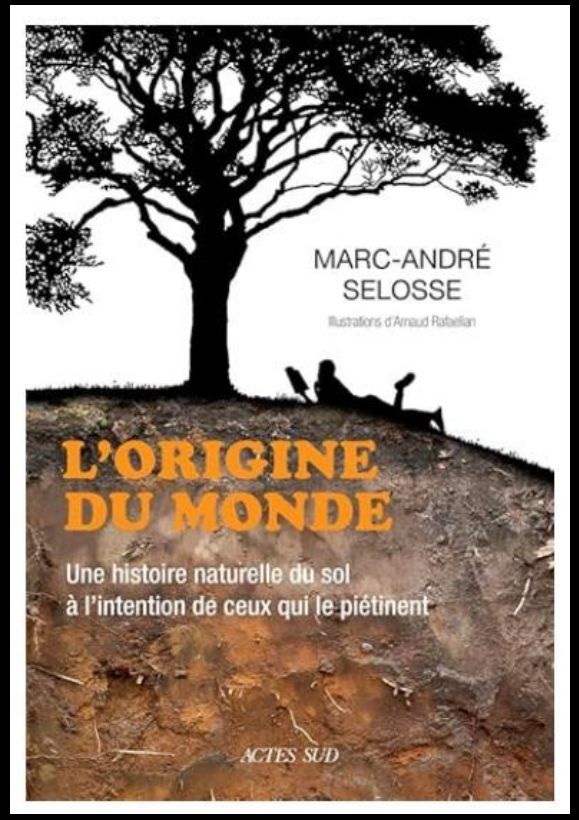
- The main heros of the book are chamical compounds of plants -tannins protected plants against parasites, herbivorous animals and even stress.

- While humans avoid toxic tannins, they use others in materials, dyes, inks, perfumes, spices, preservatives, antimicrobials and more. From their antioxidant properties to their medicinal uses, they contribute to our health.



Marc-André Selosse invites us on a magnificent underground journey, accessible to all, exploring the components of soil and its teeming life. He introduces us to the
underground and little-known world of plants, fungi and bacteria.

Finally, he concludes on an optimistic note, suggesting actions we can take to ensure that future generations inherit intact soils.
For these soils can become tools for sustainable



In one gram of soil…

one million bacteria, from thousands of species
more than one thousand of species of fungi
hundreds of amoebas
tens of millions of virus

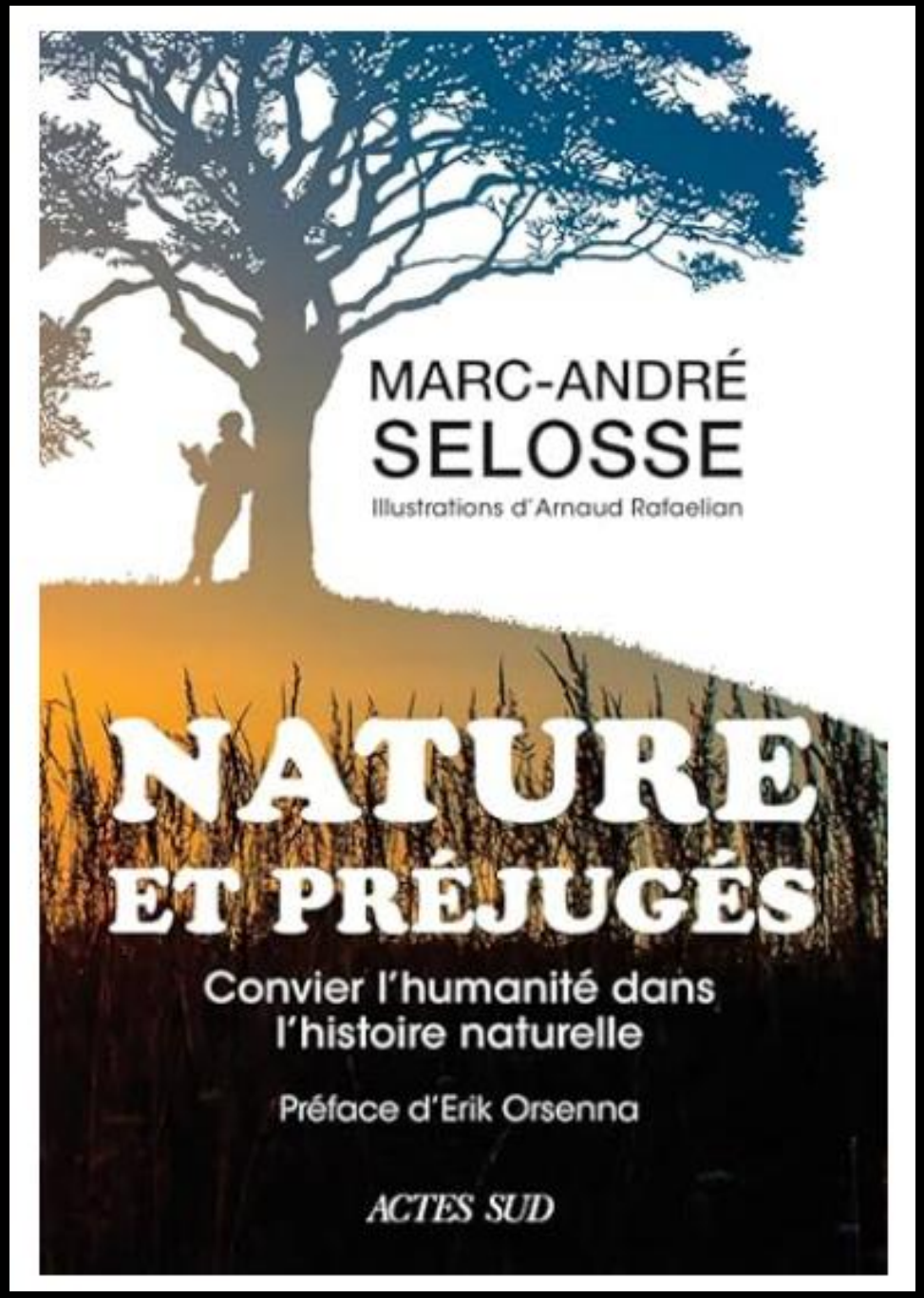
From 25% to 60% of Earth species !

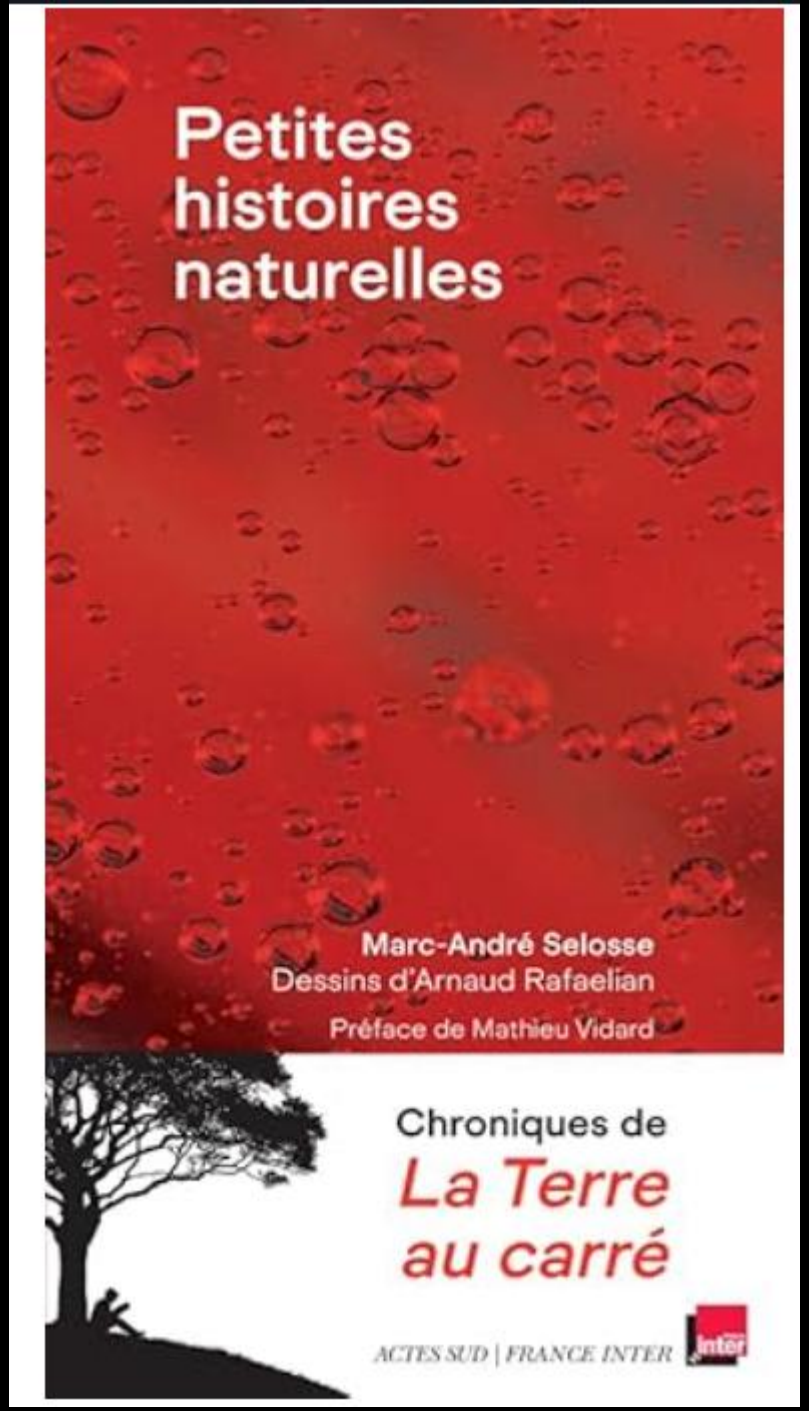
- With humor and kindness, Author deconstructs the prejudices that have prevented us from understanding nature (including human nature).

- He gives us a closer look at the world of the microbes, plants, and animals that have surrounded us for a very long time.

- “Why had we cut ourselves off so much? Cut ourselves off from the world and from life?

- Erik Orsenna describes the book „deeply humanistic Odyssey”





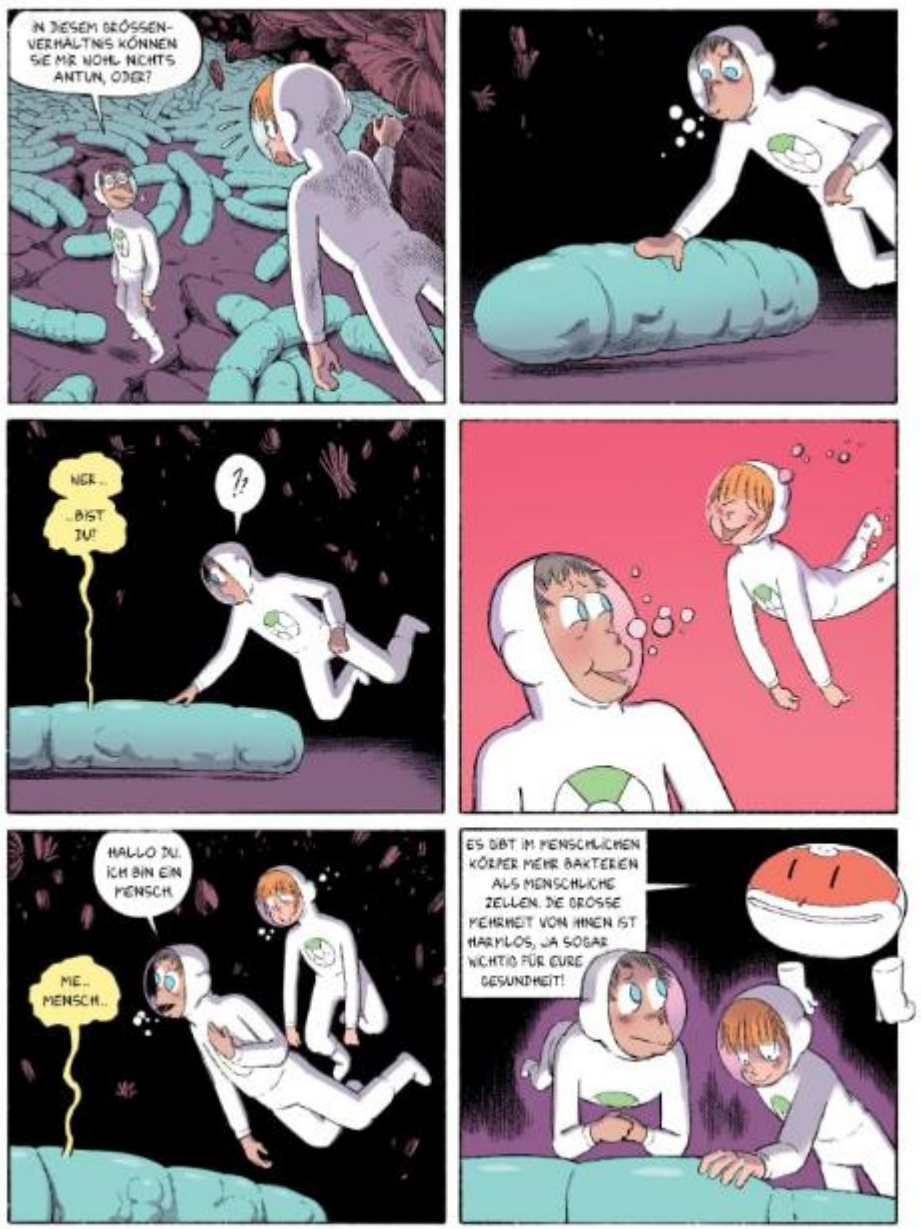
A collection of broadcasts from France Inter (in ‘La Terre au Carré') in 2020-21.

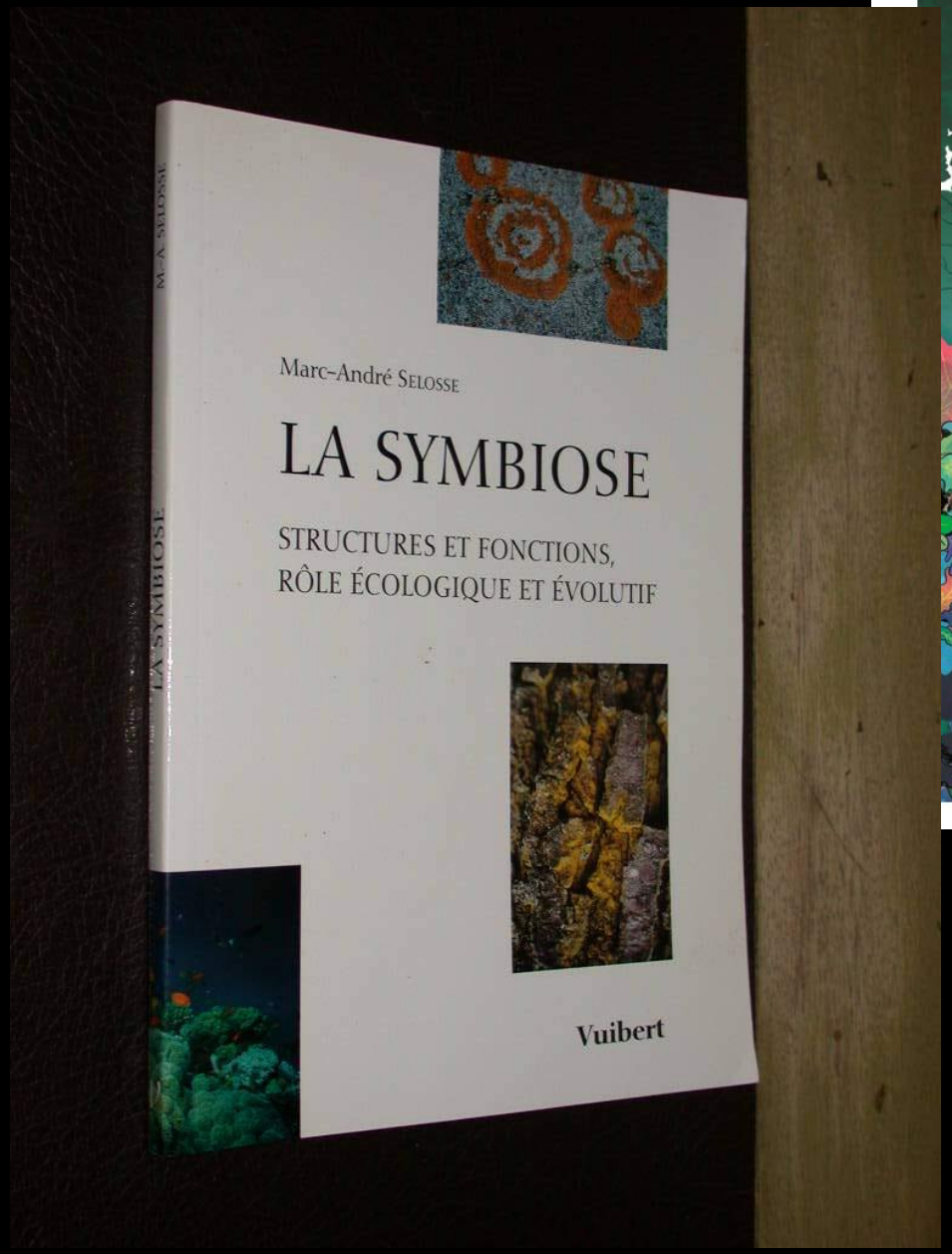
- Deep, biological perspective on the Earth we inhabit.
- Mathieu Vidard in the preface states that „You will come away enriched with a wealth of knowledge and equipped with some useful tools to set off on your journey of ecological discovery”

He is co-author of a comic strip on soil with Mathieu Burniat *(Sous Terre*, 2021, Dargaud).

Mathieu Burniat, under the scientific direction of Marc-André Selosse, presents a story about the underground world that is so vital to us, funny and fascinating.


AHH ICH SEHE, IHR HABT EINE GRUPPE BAKTERIEN ENTDECKT - PSEUDOMONADEN!
BAKTERIEN?
JA, BAKTERIEN SIND MIKROSKOPISCH KLEINE EINZELLER, DIE ÜBERALL AUF UNSEREM PLANETEN VORKOMMEN..
SIE BILDEN EIN REICH FÜR SICH IN DER WELT DER LEBEWESEN!
EUKARYONTEN
(zum Teil vielzellige Wesen, deren Zellen oft komplexer sind)
BAKTERIEN
(in Allgemeinen einzellige Wesen)
(WIR)
ARCHAEEN
(Einzeller ohne Zellkern)
LUCA
(Urvorfahr)
TOM, WIR MÜSSEN WEITER..
TOM?!?
BAKTERIEN..
..DAS OBJEKT MEINER SCHLIMMSTEN ALBTRÄUME


IN DIESEM GRÖSSEN-VERHÄLTNIS KÖNNEN SIE MIR WOHL NICHTS ANTUN, ODER?
HER..
..BIST DU!
?!
HALLO DU. ICH BIN EIN MENSCH.
ME.. MENSCH..
ES GIBT IM MENSCHLICHEN KÖRPER MEHR BAKTERIEN ALS MENSCHLICHE ZELLEN. DIE GROSSE MEHRHEIT VON IHNEN IST HARMLOS, JA SOGAR WICHTIG FÜR EURE GESUNDHEIT!


Marc-André Selosse
LA SYMBIOSE
STRUCTURES ET FONCTIONS,
RÔLE ÉCOLOGIQUE ET ÉVOLUTIF
Vuibert


Bertrand Fichou
Nikol
L'épopée
de la forêt
en cent épisodes


Marc-André Selosse
DANKZIJ DE
MICROBEN
en hun betekenis voor plant, dier en mens
VONK

He has appeared in hundreds of downcasts and public lectures. Below some comments:

- @danielkovak2558
- Monsieur Marc-André Selosse ma ouvert mon esprit, l'éveil, curiosité, le savoir, est la transmission a 65 ans je suis comme un enfant qui revis et découvre. Merci infiniment Mr Marc-André Selosse

- Mr Marc-André Selosse opened my mind, awakening, curiosity, knowledge, and transmission at 65 I am like a child who revisits and discovers. Thank you very much Mr Marc-André Selosse

- Pan Marc-André Selosse otworzył mój umysł, rozbudził ciekawość, wiedzę i chęć dzielenia się nią w wieku 65 lat. Czuję się jak dziecko, które ponownie odkrywa świat. Bardzo dziękuję, panie Marc-André Selosse.

- @aureliejaumard4354

- Merci pour cette interview avec Marc-André Selosse. Un vrai bonheur à chaque fois, un vrai talent de vulgarisateur, une connaissance solide mais qu'il arrive à rendre accessible à tous. Je pourrais l'écouter pendant des heures. Mon homme en est presque jaloux

Thank you for this interview with Marc-André Selosse. It's always a real pleasure, he has a real talent for explaining things to the general public, with his solid knowledge that he manages to make accessible to everyone. I could listen to him for hours.
My husband is almost jealous!

Professor Marc-André Selosse stands at the forefront of scientific discovery and public engagement. His meticulous studies of fungal–plant symbioses unveil hidden biological networks revealing how life is woven together at every level.
As a communicator and collaborator, he effortlessly bridges science and culture —
inviting us all to rethink our place within the microbial universe."

Why the Benedictus Polonus Award?

Awarding Professor Selosse the *Benedictus Polonus* award acknowledges:

1.His groundbreaking research into the invisible yet foundational microbial networks that support life.

2.His unmatched ability to connect rigorous science with public curiosity, fostering deeper understanding of the living world.

3.His leadership in nurturing international scientific exchange and mentorship.


UNIWERSYTET


ysokogórskich.
czych i pomiarów
eobrażają się
tycznych, inwazji
↑ Lasy świerkowe występujące w Tatrzańskim Parku Narodowym (fot: M. Kluczek).
trach, chronione w ramach rezerwatu biosfery UNESCO, są szczególnie narażone na zmiany
ików. Celem jednego z projektów było zbadanie, jak zmienił się stan zdrowotny świerków
na podstawie optycznych danych satelitarnych Sentinel-2. Dzięki zastosowaniu metod
go i danych terenowych badacze:
Na podstawie wskaźników wegetacyjnych
i algorytmów uczenia maszynowego
(Random Forest, SVM) udało się:
zidentyfikować obszary zdegradowane
(analizy wykonano w buforze 15 m od szla
określić wpływ turystyki na zawartość w
azotu i chlorofilu w roślinach,
19°42′
Zakopane
TPN
TANAP
Gerlach
Banikov
Bystrá
10 km
Die X Februarii anno Domini MMXXV in castello Lesciciensi
Capitulum praemii tribuendi quod nomine
Benedicti Poloni viri olim excellentissimi appellatur,
explorationibus et studiis per mare et terram atque
in aëre et extraterrestri spatio promovendis,
pro Patria etiam nostra, cuius merita de communitate
inter nationes semper magna fuisse constat
hoc praemium
quod etiam peregrinis bene merentibus attribuitur
Viro Doctissimo
Marc-André Selosse
dedit
natione Gallo
Capituli Praesidens signavi
RP