Book Proposal Form

This form is intended to give us a clear idea of your project in a succinct manner. Please complete it as fully as possible, or feel free to use it to structure your own proposal.

We are committed to making publishing decisions as swiftly and efficiently as possible. However, obtaining reviews does take time and if there are any circumstances we should bear in mind from the point of view of timing, please do let us know.

We ask for sole consideration of the project whilst it is under review – or notification from you should you already have submitted this proposal to another publisher.

Please complete and return to: catherine.mazars@springer.com

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1. Title

Voice Biomarkers

2. Subtitle (if applicable)

3. Please specify if this is an AUTHORED (all chapters written by those listed below) or an EDITED volume (additional contributor(s) writing one or more chapters)

Edited volume.

4. Author(s)/Editor(s) Details (complete institutional address, street name and zip code, email address, work and mobile phone numbers)

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5. Please provide a short biography of the Authors/Editors (max. 300 words)

Mette Pedersen has had an Ear Nose Throat clinic at The Medical Center Østergade 18 Copenhagen and is now consultant there. She is a Danish Representative in the Union of European Phoniatricians (UEP). She is a member of the Committee of Voice Biomarkers and is a senior researcher working on many projects among others on optical coherence tomography together with the Department of Electrical and Photonics Engineering, the Danish Technical University, Lyngby, Denmark.

Mieke Moerman is the head of the Committee of Voice Biomarkers under UEP and founder of TELEPHON.digital BV, Ghent, Belgium. She is working as ass. professor of Phoniatrics at the hospital AZ Maria Middelares, Ghent, Belgium and is Chair of the Committee for Organizing Practical Courses in the European Academy of Phoniatrics. She is a member of the Swallowing Committee of the UEP and is a former Vice President of the UEP.

Valentina Camesasca is an educated Ear Nose Throat and Head and Neck specialist and phoniatrician with high training in voice and swallowing. She is a member of the Committee of Voice Biomarkers and is working at the ASST Great Metropolitan Niguarda Hospital, Bassini Hospital and the Clinico Nemo Center in Milano as an Ear Nose Throat Specialist. She has joined and presented papers at many national conferences and her research includes topics such as endoscopies.

Neveen Asheet is working as asst. professor of phoniatrics, communication and audiology. National Research Centre, Cairo, Egypt. She is an educated Ear Nose Throat and Head and Neck specialist and phoniatrician with high training in voice and swallowing at Ain Shams University in Cairo. She is a member of the Committee of Voice Biomarkers.

Alberto Paderno is asst. professor at the University of Brescia, Department of Otorhinolaryngology - Head and Neck Surgery, and has a visiting scholarship with the Stanford University of Medicine. He has been a Staff Member of the Civil Hospital of Brescia. He is an expert on artificial intelligence and has made many papers and made presentations of cancers and AI.

6. When do you anticipate completing the manuscript (manuscript delivery date)

Feb. 1. 2025.

7. Please provide an approximate number of printed pages in final book (approximately 500 words per page)

150 pages excl. figures.

8. Please provide an approximate total number of figures (and % of these in color)

150 and 50% coloured.

9. Please provide an approximate number of line illustrations. Would any of these need to be redrawn ? If positive, please provide their number and details on what will need redrawing and why

About 10, eventual redrawing can be made by us?

10. Will electronic supplementary material (ESM) be provided? Please provide details of what this will comprise. Examples include short video clips, datasets, sound files, Powerpoint slides, revision questions, additional case studies, etc.

PowerPoint slides.

11. Please provide at least 5 keywords (different from the book title) for better searchability on the web

Voice, Biomarkers, Definition, AI- voice analysis, clinical data, scientific evidence, references.

12. Please list 3 (or more) unique features of your book proposal

1. An overview of voice as a biomarker (not separated speech and articulation in many kinds of pathology).
2. Information and knowledge for the public.
3. A basis for further research in genetics, molecular biology, and others.

13. Information text: in approximately 300 words (or 2000 characters), please describe the benefits of your Work and using key phrases (how unique it is, how structured it is, to whom it is intended and how does it fill a gap in your field of expertise) outline the aims and objectives for creating it

We have a group under the European Union of Phoniatricians (UEP): the Biomarker Committee.
A project is suggested of a book where we convert our webinar presentations into a book titled 'Voice Biomarkers'. The 5 members of the subcommittees are listed above.
The plan is a webinar every second month with a main presentation, where three have been made and two are planned. We suggest that articles are made from the presentations, in a co-work between the presenters and the committee group. It is our experience that in recent years many engineers are using fully fletched software for analysis of voice, even if the analyses have been made in running speech sequences without defining voice features, and without specification of the choice of machine learning programs.
The idea is to work closely with the presenters to edit the webinar presentations.
One of the main topics of our group will be to define which features are usable as biomarkers in patient care.
The title of the first presentation was: Mieke Moerman. Voice in Biomarkers. Introduction.
Webinar in the Biomarkers Committee, 21st of Jun. 2023.
The title of the second presentation was: Mette Pedersen, Vitus Girelli Meiner. Overview of Voice Parameters in Parkinson's Disease eventually usable as biomarkers.

Webinar in the Biomarkers Committee, 6th of Sep. 2023.
The title of the third presentation was: Alberto Paderno. AI-enhanced voice analysis for neurologic diseases. Webinar in the Biomarkers Committee, 7th of Nov. 2023.

The book will fill in a very much needed description of voice as a biomarker. The current situation is problematic because engineers use sentences for voice analysis without describing or understanding voice as a separate defined parameters among others visually. Treatment effect of voice disorders cannot be made in the way that engineers define features of speech measurements. Clinical studies in our group will solve this problem.

14. What disciplines are addressed by your book? (list in order of importance)

Medical specialists hereof phoniatricians, Ear Nose Throat specialists, neurologists.
People working with communication.

15. Which target groups do you wish to address? (please add percentages below)

75% Clinicians/Professionals/Practitioners
15% Scientists/Researchers
5% Students (Postgraduates)

16. Could the project be described as a textbook?
If so, please list at least two specific courses suitable for use in University classrooms or seminars (name of the module)

Please list appropriate textbook features that you will be including:
. Uniformity in design and chapter structure
. Comprehensive coverage of the topic
. Ample artwork
. Please list pedagogical textbook features for inclusion: abstract, keywords, definitions, learning objectives, key reading, comprehension/review questions, multiple choice questions, take-home messages, clinical cases etc.

1. Computed aspects of voice as a biomarker
2. Machine learning and voice
3. Taskforce workshops and webinars as it is made in other areas (e.g. CEREBR8 UK)

17. Please list any related Springer and non-Springer titles currently available on the topic and list the key benefits of your project over these publications
(Standard notation: Author Name and First Name: Book Title, Series, ISBN, Publication Year, Prices, Pages, Comment)

Phoniatrics 1, Fundamentals – Voice Disorders – Disorders of Language and Hearing Development (European Manual of Medicine), Editors: Antoinette am Zehnoff-Dinnesen, Bozena Wiskirska-Woźnica, Katrin Neumann and Tadeus Nawka.

Our book is a supplement to Phoniatrics 1.

Head and Neck Imaging, A multi-disciplinary Team Approach (Taranjit Singh Tatla (Editor), Joseph Manjaly (Editor), Raekha Kumar (Editor) and Alex Weller (Editor)).

This book is used as a taskforce for three days in workshops and webinars all over the world (see question 16).

18. Please insert a draft Table of Contents: chapter titles, potential contributors, chapter synopsis/abstracts. Please submit separately a sample chapter.

1. Overview: Voice Biomarkers
2.-5. Litt. search, general (voice - analyses – methods - clinical use)
6.-8. Litt. search, machine learning (voice - analyses, methods - clinical use)
9.-10. Basic physiology of voice biomarkers: A) fundamental frequency, inverse filtering. B) optical coherence tomography. C) others (e.g. jitter, shimmer, voice range profiles, questionnaires, perception tests).
11.-12. Voice pathology: A) fundamental frequency, inverse filtering. B) optical coherence tomography. C) others (e.g. jitter, shimmer, voice range profiles, questionnaires, perception tests).
13. Aspects of genetics and voice biomarkers.
14. Aspects of molecular biology and voice biomarkers.
Conclusion.

19. Permissions

Please be aware that your work is expected to be original. In case you intent to include 3rd-party material, please note that we will need to ensure that all relevant permissions are cleared in order to proceed with publication. Seeking permission from copyright holders can be very time consuming and expensive. We therefore recommend that you keep to a minimum the inclusion of third party material (such as tables, figures, illustrations, photographs, quotations, and epigraphs). If you cannot avoid including such material please be aware that, unless otherwise agreed with your editor, it will be your responsibility to obtain permission to use the material in print and online. Authors may find further information on permissions and copyright here.
Please confirm whether you intend to include 3rd-party material and supply details.
We will use original works as chapters, also by non-members of the Committee of Biomarkers.

20. Peer review

At Springer the peer review system is an integral part of the book submission and evaluation process. The peer review system ensures that published research is rigorous and meets the international standards set by each discipline. We engage in a collaborative refereeing process which ensures that the work submitted is evaluated and commented upon by independent experts within the relevant field(s). The feedback is then shared with the author; however, the reviewer's name is not disclosed unless specifically requested by the reviewer.
Please provide names and affiliations of 4-5 experts in your area who are well-positioned to evaluate the project and offer feedback. Peer reviewers should be experienced scholars with a track record in the area. We ask that the names below be unbiased and do not include scholars in your department, from your thesis committee, or that have served in an advisory capacity to you or the project in the past. Please note that we consider these suggestions and we may not necessarily use them.

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22. Additional information

- Is the book based on your research or a thesis and is it available electronically (please provide details)

- Is there any potential bulk sales? (if applicable, please indicate the name of the pharma contact)

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