

Christian Brandt  
Klinisk Institut  
KI, OUH, Forskningsenhed for Oto Rhino laryngologi (Odense)  
**E-mail:** chbrandt@health.sdu.dk  
**Telefon:** +4565501970

## **Ansættelse**

**Klinisk Institut**  
SDU  
1. mar. 2024 → 30. jun. 2025

### **Lektor**

KI, OUH, Forskningsenhed for Oto Rhino laryngologi (Odense)  
SDU  
1. mar. 2024 → 30. jun. 2025

## **Publikationer**

**Self-reported hearing handicap for older adults: Questionnaire evaluation and relation to common audiological measures**  
Goicke, S., Brandt, C. (Medlem af forfattergruppering), Humes, L. (Medlem af forfattergruppering) & Neher, T. (Medlem af forfattergruppering), jun. 2024.

**Masked speech recognition by 6–13-year-olds with early-childhood otitis media: Effects of acoustic condition and otologic history**  
Koiiek, S., Brandt, C., Möller, S., Dillon, H. & Neher, T., 20. maj 2024, (E-pub ahead of print) I: International Journal of Audiology. s. 1-8

**Speech comprehension by cochlear implant users assessed with evoked potentials and response times**  
Deshpande, P., Van Yper, L. (Medlem af forfattergruppering), Christiansen, S. (Medlem af forfattergruppering), Brandt, C. (Medlem af forfattergruppering), Debener, S. (Medlem af forfattergruppering) & Neher, T., 27. apr. 2024, (E-pub ahead of print) I: Audiology and Neurotology.

**Does experience with hearing aid amplification influence electrophysiological measures of speech comprehension?**  
Deshpande, P., Brandt, C. (Medlem af forfattergruppering), Debener, S. (Medlem af forfattergruppering) & Neher, T. (Medlem af forfattergruppering), 27. nov. 2023, (E-pub ahead of print) I: International Journal of Audiology. s. 1-10 10 s.

### **Subgroups among APD children**

Brandt, C., Ørebro, T. M. & Winther, C. G., 27. okt. 2023.

### **Speech Comprehension In Cochlear Implant Users Assessed With Evoked Potentials And Response Times**

Deshpande, P., Van Yper, L. N., Christiansen, S., Brandt, C., Debener, S. & Neher, T., 23. aug. 2023.

### **Comparison of Chirp ABR with and without Bayesian Weighting**

Hallak, O. N., El-Haj-Ali, M. & Brandt, C., 27. jul. 2023.

### **Monaural and binaural phase sensitivity in school-age children with early-childhood otitis media**

Koiiek, S., Brandt, C., Schmidt, J. H. & Neher, T., dec. 2022, I: International Journal of Audiology. 61, 12, s. 1054-1061

### **Comparing clinically applicable behavioral and electrophysiological measures of speech detection, discrimination, and comprehension**

Deshpande, P., Brandt, C., Debener, S. & Neher, T., 24. nov. 2022, I: Trends in Hearing. 26, 13 s.

**Dopamine influences attentional rate modulation in Macaque posterior parietal cortex.**

van Kempen, J., Brandt, C., Distler, C., Bellgrove, M. A. & Thiele, A., 28. apr. 2022, I: Scientific Reports. 12, 14 s., 6914.

**Contribution of Ionotropic Glutamatergic Receptors to Excitability and Attentional Signals in Macaque Frontal Eye Field**

Dasilva, M., Brandt, C., Alwin Gieselmann, M., Distler, C. & Thiele, A., 10. jun. 2021, I: Cerebral Cortex. 31, 7, s. 3266-3284

**Three auditory brainstem response (ABR) methods tested and compared in two anuran species**

Lauridsen, T. B., Brandt, C. & Christensen-Dalsgaard, J., 19. jan. 2021, I: The Journal of Experimental Biology. 224, 2, 8 s., jeb237313.

**Characterizing the speech-in-noise abilities of school-age children with a history of middle-ear diseases**

Koiek, S., Nielsen, J. B., Brandt, C., Hvass Schmidt, J. & Neher, T., 26. mar. 2020, *Auditory Learning in Biological and Artificial Systems: Proceedings of the International Symposium on Auditory and Audiological Research*. Kressner, A. A., Regev, J., Christensen-Dalsgaard, J., Tranebjærg, L., Santurette, S. & Dau, T. (red.). s. 437-444 (The ISAAR proceedings).

**Cell class-specific modulation of attentional signals by acetylcholine in macaque frontal eye field**

Dasilva, M., Brandt, C., Gotthardt, S., Gieselmann, M. A., Distler, C. & Thiele, A., 1. okt. 2019, I: PNAS. 116, 40, s. 20180-20189

**Characterizing the binaural hearing abilities of school-age children with a history of middle-ear-diseases.**

Koiek, S., Nielsen, J. B., Brandt, C., Schmidt, J. H. & Neher, T., 9. jun. 2019.

**The Masked ABR (mABR): a New Measurement Method for the Auditory Brainstem Response**

Brandt, C., Brande-Lavridsen, N. & Christensen-Dalsgaard, J., dec. 2018, I: JARO - Journal of the Association for Research in Otolaryngology. 19, 6, s. 753-761

**Implementation and evaluation of a Danish test battery for auditory processing disorder in children**

Pedersen, E. R., Dahl-Hansen, B., Christensen-Dalsgaard, J. & Brandt, C., aug. 2017, I: International Journal of Audiology. 56, 8, s. 538-549

**A user-operated audiometry method based on the maximum likelihood principle and the two-alternative forced-choice paradigm**

Schmidt, J. H., Brandt, C., Pedersen, E. R., Christensen-Dalsgaard, J., Andersen, T., Poulsen, T. & Bælum, J., jun. 2014, I: International Journal of Audiology. 53, 6, s. 383-391

**Biophysics of directional hearing in the American alligator (*Alligator mississippiensis*)**

Bierman, H. S., Thornton, J. L., Jones, H. G., Koka, K., Young, B. A., Brandt, C., Christensen-Dalsgaard, J., Carr, C. E. & Tollin, D. J., 2014, I: Journal of Experimental Biology. 217, 7, s. 1094-1107

**Development of vocalization and hearing in American mink (*Neovison vison*)**

Brandt, C., Malmkvist, J., Nielsen, R. L., Brande-Lavridsen, N. & Surlykke, A., 2013, I: Journal of Experimental Biology. 216, 18, s. 3542-3550

**Hearing with an atympanic ear: good vibration and poor sound-pressure detection in the royal python, *Python regius***

Christensen, C. B., Christensen-Dalsgaard, J., Brandt, C. & Madsen, P. T., 2012, I: Journal of Experimental Biology. 215, Pt 2, s. 331-42

**Importance of Hearing for Survival of *Danio rerio* (Zebrafish) in an Experimental Predator/Prey Environment**

Jørgensen, R. A., Brandt, C., Wahlberg, M. & Christensen-Dalsgaard, J., 2012, I: Advances in Experimental Medicine and Biology. 730, s. 117-9 3 s.

**Specialization for underwater hearing by the tympanic middle ear of the turtle, *Trachemys scripta elegans***

Christensen-Dalsgaard, J., Brandt, C., Willis, K. L., Christensen, C. B., Ketten, D., Edds-Walton, P., Fay, R. R., Madsen, P. T. & Carr, C. E., 2012, I: Proceedings of the Royal Society B. 279, 1739, s. 2816-2824 9 s.

**Auditory Brainstem Responses and Otoacoustic Emissions in Lizards: Comparisons across Species and Temperatures**  
Brandt, C., Bergevin, C., Velenovsky, D., Bonine, K. & Christensen-Dalsgaard, J., 19. feb. 2011.

**Directionally Sensitive Auditory Brainstem Responses in the American Alligator (*Alligator mississippiensis*)**  
Bierman, H., Carr, C. E., Brandt, C., Young, B. & Christensen-Dalsgaard, J., 2011.

**Hearing in the African lungfish, *Protopterus annectens***

Christensen-Dalsgaard, J., Brandt, C., Wilson, M., Wahlberg, M. & Madsen, P. T., 2011, *The Biology of Lungfishes*. Mørup Jørgensen, J. & Joss, J. (red.). CRC Press, s. 501-510 10 s.

**Synchronized Bilateral Synaptic Inputs to *Drosophila melanogaster* Neuropeptidergic Rest/Arousal Neurons**

McCarthy, E. V., Wu, Y., deCarvalho, T., Brandt, C., Cao, G. & Nitabach, M. N., 2011, I: *Journal of Neuroscience*. 31, 22, s. 8181-8193 13 s.

**A user-operated Two-Alternative Forced Choice Audiometry system for use in monitoring Hearing in Professional Musicians.**

Schmidt, J. H., Brandt, C., Christensen-Dalsgaard, J., Andersen, T. & Bælum, J., 2010.

**Hearing in the African lungfish, *Protopterus annectens***

Christensen-Dalsgaard, J., Brandt, C., Wilson, M., Wahlberg, M. & Madsen, P. T., 2010, *The Biology of Lungfishes*. Jørgensen, J. M. & Joss, J. (red.). CRC Press, s. 503-510

**Hearing in the red-eared slider turtle, *Trachemys scripta elegans***

Christensen-Dalsgaard, J., Carr, C. E., Madsen, P. T., Brandt, C., Willis, K., Ketten, D., Edds-Walton, P. & Fay, R. R., 2010.

**Obskur auditorisk dysfunktion forårsaget af lokaliserede cochleære defakter**

Brandt, C., 2010, Syddansk Universitet. Det Naturvidenskabelige Fakultet.

**Specialisation for underwater hearing in the red-eared slider turtle, *Trachemys scripta elegans*.**

Christensen-Dalsgaard, J., Carr, C. E., Madsen, P. T., Brandt, C., Willis, K., Ketten, D., Edds-Walton, P. & Fay, R. R., 2010.

**New methods to investigate hearing level and sound exposure in professional musicians**

Schmidt, J. H., Brandt, C., Christensen-Dalsgaard, J., Andersen, T., Juhl, P. M., Poulsen, T. & Bælum, J., 28. okt. 2009.

**Test person operated 2-Alternative Forced Choice Audiometry compared to traditional audiometry**

Schmidt, J. H., Brandt, C., Christensen-Dalsgaard, J., Andersen, T., Bælum, J. & Poulsen, T., 2009.

## Aktiviteter

**The Impact Of Otitis Media On Peripheral And Central Auditory Processing: A Scoping Review**

Van Yper, L. N. (Forfatter), Brandt, C. (Medforfatter), Korsholm, M. (Medforfatter), Godballe, C. (Medforfatter), Schmidt, J. H. (Medforfatter) & Neher, T. (Medforfatter)

23. aug. 2023 → 25. aug. 2023

**Cortical responses reflecting comprehension abilities evoked with auditory, visual, and visual-then-auditory stimuli: Normal-hearing participants vs. cochlear implant users**

Deshpande, P. (Forfatter), Yper, L. V. (Medforfatter), Brandt, C. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)

3. maj 2023 → 6. maj 2023

**Samarbejde og Autorisation af nye faggrupper - En mulighed for at styrke kapacitet og kvalitet og samarbejde inden for audiologi i en demografisk udfordret fremtid.**

Grøntved, Å. M. (Foredragsholder), Brandt, C. (Medforfatter), Andersen, H. J. (Medforfatter) & Schmidt, J. H. (Medforfatter)  
21. apr. 2023

**Cortical responses reflecting comprehension abilities evoked with auditory, visual, and visual-then-auditory stimuli: Normal-hearing participants vs. cochlear implant users**

Deshpande, P. (Forfatter), Yper, L. V. (Medforfatter), Brandt, C. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
11. feb. 2023 → 15. feb. 2023

**The impact of otitis media on peripheral and central-auditory processing: A systematic review**

Yper, L. V. (Forfatter), Brandt, C. (Medforfatter), Korsholm, M. (Medforfatter), Godballe, C. (Medforfatter), Schmidt, J. (Medforfatter) & Neher, T. (Medforfatter)  
11. feb. 2023 → 15. feb. 2023

**Cortical responses reflecting comprehension abilities evoked with auditory, visual, and visual-then-auditory stimuli: Normal-hearing participants vs. cochlear implant users**

Deshpande, P. (Forfatter), Yper, L. V. (Medforfatter), Brandt, C. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
7. okt. 2022 → 8. okt. 2022

**Influence of hearing aid experience on electrophysiological measures of speech detection, discrimination, and comprehension**

Deshpande, P. (Forfatter), Brandt, C. (Medforfatter), Schmidt, J. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
10. aug. 2022 → 14. aug. 2022

**Influence of hearing-aid experience on behavioral and electro-physiological measures of speech detection, discrimination, and comprehension**

Deshpande, P. (Oplægsholder), Stubberup, A. T. (Medforfatter), Brandt, C. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
1. jun. 2022 → 3. jun. 2022

**Long-term hearing abilities in noise in school-age children with early-childhood otitis media**

Koiek, S. (Oplægsholder), Schmidt, J. (Medforfatter), Dillon, H. (Medforfatter), Brandt, C. (Medforfatter) & Neher, T. (Medforfatter)  
1. jun. 2022 → 3. jun. 2022

**Influence of hearing aid experience on behavioral and electrophysiological measures of speech detection, discrimination and comprehension**

Deshpande, P. (Forfatter), Brandt, C. (Medforfatter), Schmidt, J. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
10. apr. 2022 → 13. apr. 2022

**Long-term hearing abilities in noise in school-age children with early-childhood otitis media**

Koiek, S. (Forfatter), Schmidt, J. (Medforfatter), Dillon, H. (Medforfatter), Brandt, C. (Medforfatter) & Neher, T. (Medforfatter)  
10. apr. 2022 → 13. apr. 2022

**A digit-based behavioral and electrophysiological test battery for assessing different speech processing abilities**

Deshpande, P. (Forfatter), Brandt, C. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
25. aug. 2021

**Do school-age children with a history of recurrent otitis media show binaural speech-in-noise processing deficits?**

Koiek, S. (Forfatter), Nielsen, J. B. (Medforfatter), Dillon, H. (Medforfatter), Brandt, C. (Medforfatter) & Neher, T. (Medforfatter)

24. aug. 2021

**A digit-based behavioral and electrophysiological test battery for assessing different speech processing abilities**

Deshpande, P. (Forfatter), Brandt, C. (Medforfatter), Debener, S. (Medforfatter) & Neher, T. (Medforfatter)  
14. jun. 2021 → 9. jul. 2021

**Do school-age children with a history of recurrent otitis media show binaural speech-in-noise processing deficits?**

Koiek, S. (Oplægsholder), Nielsen, J. B. (Medforfatter), Dillon, H. (Medforfatter), Brandt, C. (Medforfatter) & Neher, T. (Medforfatter)  
20. maj 2021

**Characterizing the speech-in-noise abilities of school-age children with a history of middle-ear diseases**

Koiek, S. (Oplægsholder), Nielsen, J. B. (Andet), Brandt, C. (Andet), Hvass Schmidt, J. (Andet) & Neher, T. (Andet)  
21. aug. 2019 → 23. aug. 2019

**Characterizing the binaural hearing abilities of school-age children with a history of middle-ear diseases**

Koiek, S. (Oplægsholder), Nielsen, J. B. (Andet), Brandt, C. (Andet), Hvass Schmidt, J. (Andet) & Neher, T. (Andet)  
9. jun. 2019 → 12. jun. 2019

**Automatisk 2 Alternative Forced Choice Audiometri - Et alternativ til traditionel audiometri?**

Brandt, C. (Oplægsholder)  
17. apr. 2009 → 18. apr. 2009

## Presse/medie

**EU i dagens aviser onsdag den 19. juni 2024**

Brandt, C.  
19/06/2024  
1 Mediebidrag

**forsker i frøers hørelse: Forsker i frøers og menneskers hørelse**

Brandt, C.  
08/01/2009  
1 Mediebidrag

**Global marketing manager til Spring Production**

Brandt, C.  
12/08/2021  
1 Mediebidrag

**Her er de mulige konsekvenser i sag om svensk forbrugslånsbank**

Brandt, C.  
25/04/2024  
1 Mediebidrag

**Jonathan Kvium: Egentlig drikker jeg ikke rigtigt, men stemningen derinde er bare virkelig god**

Brandt, C.  
02/02/2024  
1 Mediebidrag

**Magasinet Forsyning Kemisk kortlægning første skridt mod en effektiv høst af fosfor**

Brandt, C.  
10/05/2021  
1 Mediebidrag

## Navnenyt uge 32

Brandt, C.  
10/08/2021  
1 Mediebidrag

## Nyheder fra Danmark i kort form

Brandt, C.  
13/10/2022  
1 Mediebidrag

## Svindel med NemKonto: Minister kræver flere undersøgelser

Brandt, C.  
23/04/2021  
1 Mediebidrag

## Formel pædagogisk uddannelse

2018Public communication course, engineerthefuture.dk  
2016Activating education and active learning with Flipped Learning, University of Southern Denmark  
2017Research based teaching, University of Southern Denmark  
2004Biology experiments – communicating biology, University of Southern Denmark  
1997Diving Instructor course, CMAS.

## Uddannelsesadministrative opgaver

Since 2016 I have been heavily involved in the creation of a new bachelor program in Audiology. As a part of that I was also part of the process of moving the whole audiology program from the faculty of humanities to the faculty of health sciences.

I'm currently part of the process of creating a new updated master program in audiology.

I have been responsible for the content of the following courses: Introduction to Audiology, Audiological Measurements I, Preaudiologic Practice, Audiological Measurements II, Audiological Measurements, Psychoacoustics, Advanced Audiological Measurements.

Since 2017 I have been an elected member of the study board for Audiology.

## Erfaring med undervisning, vejledning og eksamen

### Teaching

2019 Audiological Measurements I and Hearing Aid Treatment I, University of Southern Denmark  
2019 Psychoacoustics, University of Southern Denmark  
2018 Preaudiologic Practice, University of Southern Denmark  
2018 Introduction to Audiology, University of Southern Denmark  
2018 Advanced Audiological Measurements, University of Southern Denmark  
2018 Audiological Measurements I and Hearing Aid Treatment I, University of Southern Denmark  
2018 Audiological Measurements II, University of Southern Denmark  
2018 Psychoacoustics, University of Southern Denmark  
2017 Preaudiologic Practice, University of Southern Denmark  
2017 Introduction to Audiology, University of Southern Denmark  
2017 Audiological Measurements, University of Southern Denmark  
2017 Psychoacoustics, University of Southern Denmark  
2016 Preaudiologic Practice, University of Southern Denmark  
2016 Audiological Measurements, University of Southern Denmark  
2016 Advanced Audiological Measurements, University of Southern Denmark  
2015 Lecture on Learning & Memory in Cognitive Neuroscience. (19.10.2015), Newcastle university.  
2013 Lecture on Attention in Cognitive Neuroscience. (11.11.2013), Newcastle university.  
2012 Lecture on Learning & Memory in Cognitive Neuroscience. (15.10.2012), Newcastle university.  
2009 Lecture on The auditory brainstem response in air as part of summer course in Acoustic Communication. (20.08.2009), University of Southern Denmark  
2009 Teaching assistant in Physiology lab exercises, University of Southern Denmark  
2009 Teaching assistant in Audiological measurement methods, University of Southern Denmark  
2008 Teaching assistant in Physiology lab exercises, University of Southern Denmark  
2007 Teaching assistant in physics 501 (biophysics), University of Southern Denmark  
2007 Teacher in Animal behaviour A, University of Southern Denmark  
2007 Teaching assistant in Physiology lab exercises, University of Southern Denmark  
2007 Teaching assistant in Audiological measurement methods, University of Southern Denmark

2006 Teacher in Audiological measurement methods, University of Southern Denmark  
2006 Teaching assistant in Physics 501 (biophysics), University of Southern Denmark  
2006 Teacher of Natural Science, University College Lillebælt

Supervision

I have been or currently are the main supervisor on 16 master projects and 5 bachelor projects. I'm currently the co-supervisor on one PhD project.

## **Metoder, materialer og redskaber**

I use active learning as an integral part of my teaching. Either by combining traditional lectures with exercises where the students use the newly learned material on real world examples. Or by using video lectures and combining them with group discussions as an exercise in class.

## **Uddannelsesudvikling og universitetspædagogisk forskning.**

In the development of my educational profile I have primarily focused on two projects. 1. Improving the quality of master theses in audiology. 2. Implementing flipped learning in my teaching.

As part of the first project I wrote a guide for how to write a master thesis based on material from faculty of Science. And was a part of the group that worked on implementing group supervision for master students. As part of the second project I converted the course Psychoacoustics from a traditional teaching style to flipped learning and investigating costs and benefits in this process.

Papers

2017 C. Brandt, The use of flipped learning to teach Psychoacoustics, Proceedings fra TAL 2017, ISBN 978-87-93669-20-8, page 26-32

Poster

2017 Teaching psychoacoustics in the flipped classroom. SDUUP poster session, University of Southern Denmark

Invited talks

2018 Video i undervisningen, Study leader meeting, University of Southern Denmark.

2017 Cost-benefit analysis of video lectures, Trends in teaching, University of Southern Denmark