



# PROF. PETER TESKE

Centre for Ecological Genomics and Wildlife Conservation  
Department of Zoology  
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## ACADEMIC CAREER

1997	<b>BSc (cum laude)</b> Nelson Mandela University, South Africa
1998	<b>BSc honours (cum laude)</b> Nelson Mandela University, South Africa
2000	<b>MSc (cum laude)</b> Nelson Mandela University, South Africa
2003	<b>PhD</b> Stellenbosch University, South Africa
2004-2011	<b>Postdoctoral researcher</b> Rhodes University, South Africa Macquarie University Sydney, Australia
2012	<b>Senior researcher</b> Flinders University of South Australia
2013	<b>Senior lecturer</b> University of Johannesburg, South Africa
2014	<b>Associate professor</b> University of Johannesburg, South Africa
2020	<b>Full professor</b> University of Johannesburg, South Africa

### H-INDEX

SCOPUS: 26, GOOGLE SCHOLAR: 30

**ORCID**

<https://orcid.org/0000-0002-2838-7804>

**R<sup>G</sup> ResearchGate**

[https://www.researchgate.net/profile/Peter\\_Teske](https://www.researchgate.net/profile/Peter_Teske)

### LANGUAGES

German (native), English (fluent), Afrikaans (competent), French and Portuguese (very basic)

# STUDENT SUPERVISION

(year of completion in brackets; please see LIST OF PUBLICATIONS for outputs by postgraduate students)

**BSc honours**      Eduard Drost (2014), Jody Oliver (2015), Candice Jooste (2016), Leishe Pieterse (2016), Simphiwe Radebe (2020), Conny Serite (2020), Carol Amukelani Chauke (2021), Keith Mabasa (2021)

**MSc**                      Yolanda Qhaji (2015), Heather Webster (2016), Noxolo Ntuli (2018), Daniela Monsanto (2018), Jody-Carynn Oliver (2019), Benedicta Ngwakum (2019), Candice Jooste (2019), Nkitseng Oageng Modise (2020), Ofentse Ntshudisane (2021), Thegofatso Fakude (ongoing), Sibusiso Mahlangu (ongoing), Claudia Schnelle (ongoing), Sven-Erick Weiss (ongoing), Conny Serite (ongoing)

**PhD**                      Thomas Mkare (2017), Tirupathi Rao Golla (2018), Juliana Klein (2019), Heather Webster (2021), Daniela Monsanto (ongoing), Shilpa Pharbu (ongoing), Mark Lisher (ongoing), Jody-Carynn Oliver (ongoing)

**Postdoc**                Mbaye Tine (2016), Arsalan Emami-Khoyi (ongoing), Tirupathi Rao Golla (ongoing)

## EXTERNAL FUNDING

➤ Please see <https://orcid.org/0000-0002-2838-7804> for a complete list that includes competitive internal grants (up to ZAR 400 000) and smaller external grants (up to ZAR 40 000). Grants from ZAR 500 000 are considered high by South African standards.

- 1. Extant Peritidal Stromatolite Network (EPStromNet).** National Environmental Research Council (UK), £36,985  
[comparative genomics, biodiversity discovery, geomorphology, isotope chemistry]  
Collaborators: Graham Underwood and Prof. Terry McGenity (University of Exeter), Andrew Cooper (University of Ulster), Matt Forbes (Australian Research Council) et al.
- 2. EFFICCAS (submitted).** AAPG2022 (French Government)  
[whole genome sequencing, QTL discovery, otolith microchemistry, transport modelling]  
Collaborators: David Kaplan, Nicolas Bierne, Audrey Darnaude and Christophe Lett (Université de Montpellier) et al.
- 3. South African National Antarctic Programme: Ecogenomics (submitted)**  
[population genomics, transcriptomics, metabolomics, eDNA metabarcoding]  
Collaborators: Bettine van Vuuren (UJ), David Hedding (UNISA), Charlene Janion-Scheepers (UCT) et al.
- 4. African Coelacanth Ecosystem Programme: Deep Connections.** NRF, R 1 750 000  
[population genomics, eDNA metabarcoding, oceanographic connectivity]  
Collaborators: Kerry Sink and Jody-Carynn Oliver (SANBI) et al.
- 5. Foundational Biodiversity Information Programme**  
NRF (2019-2021), ZAR 183 000, "DNA barcoding of estuarine invertebrates in eastern South Africa"  
[DNA barcoding, eDNA metabarcoding]  
Collaborators: Gavin Rishworth and Nadine Strydom (NMU), Oliver Duna and Thembinkosi Dlaza (WSU), Carole Simon (Stellenbosch University), Fiona Mackey (ORI)
- 6. South Africa-Mozambique-Zambia Trilateral**  
Fundo Nacional de Investigação, NRF, NSTC (2019-2021), ZAR: TBA; "Barcoding the aquatic biodiversity of south-eastern Africa." [eDNA metabarcoding, biodiversity discovery]  
Collaborators: Isabel da Silva (Universidade Lúrio, Moçambique), Cyprian Katongo (University of Zambia), Sophie von der Heyden (Stellenbosch University), Angus Macdonald (University of KwaZulu-Natal) et al.

7. **NRF Thuthuka Grant (2019-2020)**  
ZAR 620 000: Population bottlenecks in batoid species caught in the KwaZulu-Natal shark nets [comparative genomics].  
Collaborators: Kolobe Mmonwa and Matt Dicken (KwaZulu-Natal Sharks Board), Aletta Bester-van der Merwe (Stellenbosch University)
8. **Mohamed bin Zayed Foundation (2018-2020)**  
US\$10 704: "A multidisciplinary research initiative to save the critically endangered estuarine pipefish, *Syngnathus watermeyerii*, from imminent extinction." [eDNA metabarcoding, comparative genomics]  
Collaborators: Paul Cowley and Nikki James (South African Institute for Aquatic Biodiversity), Nuno Monteiro (Universidade do Porto), Louw Claassens (NGO: Knysna Basin Programme)
9. **NRF CSRR (2016-2018)**  
ZAR 639 445: "Hybridisation of marine biota on a changing planet." [phylogenomics]  
Collaborators: Dr Marc Rius (University of Southampton), Prof. Christopher McQuaid (Rhodes University)
10. **NRF Thuthuka Grants (2016-2017)**  
ZAR 200 000: "A genetic investigation of female philopatry in the ragged-tooth shark, *Carcharias taurus*."  
Collaborators: Kolobe Mmonwa and Matt Dicken (KwaZulu-Natal Sharks Board), Aletta Bester-van der Merwe (Stellenbosch University)
11. **NRF Blue Skies Programme (2015)**  
ZAR 197 500: "Trees in the sea: the evolution of mangrove forests". [phylogenomics]  
Collaborators: Stefano Canicci and Sara Fratini (University of Florence), Christopher McQuaid (Rhodes University)
12. **Oppenheimer Memorial Trust (2016-2017)**  
ZAR 700 000. "Trees in the Sea: the Evolution of the Mangrove Forest Ecosystem" [phylogenomics]  
Collaborators: Stefano Cannicci and Sara Fratini (University of Florence), Christopher McQuaid (Rhodes University)
13. **NRF ACEP IV (2015-2018)**  
ZAR 1 256 300. "Pathways of larval dispersal: the roles of alongshore and cross shore transport."  
Collaborators: Francesca Porri (South African Institute of Aquatic Biodiversity), Christopher McQuaid (Rhodes University)
14. **Rufford Foundation Small Grants (2015)**  
GBP 5196; "A second look at the conservation genetics of the endangered Knysna seahorse."  
Collaborators: Thomas Mkare (Kenya Marine Fisheries Institute)

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| <p>15. <b>PADI Foundation Grant (2015)</b> US\$ 5000;<br/>         "Highway or bypass: the role of the Agulhas<br/>         Current in facilitating coastal connectivity."</p>                           | <p>Collaborators: Marc Rius (University of<br/>         Southampton), Gerardo Zardi and Katy<br/>         Nicastro (CCMAR, Universidade do Algarve)</p>                                                                          |
| <p>16. <b>NRF CSUR (2014-2016)</b><br/>         ZAR 859 800: "A genomic appraisal of the stock<br/>         structure of South African sardines". [genomic and<br/>         transcriptomic research]</p> | <p>Collaborators: Luciano Beheregaray (Flinders<br/>         University, Australia), Carl van der Lingen<br/>         (Department of Agriculture, Forestry and<br/>         Fisheries), Tiru Golla (Rutgers University, USA)</p> |

## LEADERSHIP AND COMMUNITY INVOLVEMENT

### COMMITTEE/PANEL/EDITORIAL BOARD MEMBERSHIPS

- Adjudicator: L'Oréal-UNESCO for Women in Science, Sub-Saharan Africa (2017-ongoing)
- UJ Faculty of Science Ethics Committee
- UJ Faculty of Science Plagiarism Committee
- Adjudicator (2015-ongoing): BSc honours presentations, UJ Botany Dept.
- Editorial board: BMC Genomics, Frontiers in Marine Science

### INVITED SPEAKER

- 2016 International fisheries stock assessment workshop, Cape Town
- Plenary speaker, University of Pretoria Department of Genetics, Annual Research Symposium 2016
- UJ Faculty of Science (presented "Advice for your Teaching Portfolio" to staff in the Faculty of Science), 2017
- SOWETO Science Week 2018 (presented "The Age of Biology" to ~500 school children)
- Conference for High Performance Computing, Cape Town, 2018
- Roundtable: past and present anthropogenic impacts on the coastal environment, Faro, Portugal, 2018
- Launch of Nature masterclasses for scientific writing and publishing, UJ 2019

- UJ postgraduate supervision winter school (workshop): “How to get your students to publish their thesis”
- Training workshop at Universidade Lúrio, Pemba, Mozambique: “DNA barcoding of the Western Indian Ocean – towards a reference database for estuarine species”.
- University of Oslo, Norway, 2019: “Marine genomics in southern Africa”.
- UJ Postgraduate Open Day 2020: “Strategies for managing your scientific writing: proposals, theses and publications.” Youtube: <https://www.youtube.com/watch?v=PpggmAifpsc>
- UJ Academic Integrity Days (May 13-14, 2020). Zoom webinar: “Academic misconduct: how to ruin your own career in 12 easy steps.”
- International Molecular Biology and Genetic Congress (Istanbul Technical University, October 2-4, 2020): “South African marine genomics: research across the Atlantic-Indian Ocean boundary”.
- Small pelagics workshop (meeting between scientists, politicians and industry to discuss stock structure in sardine), Cape Town.
- UJ Public Lecture (October 1, 2021): “Genomics is making waves in marine biology”.

## RECENT CONFERENCE AND WORKSHOP ATTENDANCE

(excludes local conferences attended by supervised students)

2015: Gordon Research Conference in Ecological and Evolutionary Genetics, Biddeford, USA.

2016: Next-generation sequencing analysis in R (Nottingham Trent University, UK).

2016: University of Pretoria Genetics Department Symposium: plenary speaker.

2016: ConGenomics 2016, Vairão, Portugal.

2017: International Barcoding of Life Conference (iBOL2017), Skukuza, South Africa.

2017: Southern African Shark & Ray Symposium, Hermanus, South Africa.

2017: RAD-seq data analysis course (Berlin, Germany).

2017: 10<sup>th</sup> WIOMSA Scientific Symposium (Dar-es-Salaam, Tanzania).

2018: Conference on High Performance Computing, Cape Town, South Africa (invited speaker)

2018: Roundtable: "Past and present anthropogenic impacts on the coastal environment". Faro, Portugal (invited speaker).

2019: 11<sup>th</sup> WIOMSA Scientific Symposium (Mauritius)

2019: FNI-NRF-NSTC Inception Meeting, Costa do Sol, Mozambique.

2019: Experimental Evolution workshop (VetmedUni, Vienna).

2020: International Molecular Biology and Genetic Student Congress, Istanbul Technical University, Turkey (invited speaker).

## SERVICES TO THE SCIENTIFIC COMMUNITY

### ASSESSMENT OF GRANT AND RATING PROPOSALS

a) National Geographic Society, National Research Foundation (NRF) (5x), National Science Foundation (NSF) (2x), Research Grants Council of Hong Kong (2x), Rufford Foundation (4x)

International: Deutsche Forschungsgesellschaft (DFG) (3x), FONDECYT (Chile) (2x), IUCN Red List, Narodowe Centrum Nauki (Poland) (2x)

b) National: NRF competitive support for unrated researchers (2x), NRF competitive support for rated researchers (1x), NRF rating applications (12x), Thuthuka panel member

### DISSERTATION/THESIS/COURSE EXAMINATION

- Tinashe Muteveri, Stellenbosch University, PhD thesis (2014)
- Belinda Swart, Stellenbosch University, PhD thesis (2014)
- Phanor Montoya-Maya, University of KwaZulu-Natal, PhD thesis (2015)
- Susanna Zeeman, University of Cape Town, PhD thesis (2016)
- Lindile Cele, University of KwaZulu-Natal, MSc dissertation (2017)
- Livhuwani Maluma, Zoology honours project, University of Venda (2017)
- Carla Lourenco, Rhodes University, PhD thesis (2017)
- Vanita Malekar Charles, Lincoln University, New Zealand, PhD thesis (2017)
- Nikki Phair, Stellenbosch University, PhD thesis (2018)
- DK Bharti, Indian Institute of Science, Bangalore, India, PhD thesis (2018)
- Christine Onyango, University of KwaZulu-Natal, PhD thesis (2020)
- C. Barker, Rhodes University, MSc thesis (2021)

- Erica Nielsen, Stellenbosch University, PhD thesis (2021)
- Floriaan Devloo-Delva, University of Tasmania, Australia, PhD thesis (2021)

2016-2018: External examiner for B.Sc. honours research projects, Department of Genetics, Stellenbosch University

2021-2023: External examiner, GENE701 mini project in genetics, University of KwaZulu-Natal

2021-2022: External examiner, 3<sup>rd</sup> year genetics course, University of Venda

## KEY COLLABORATORS

- Dr Thomas Kalama Mkare, Centre for Aquatic Genomics, Forensics and Bioinformatics, KMFRI, Mombasa, Kenya
- Dr Luisa Simbine, Instituto Nacional de Investigação Pesqueira, Av. Mao Tse Tung Nº 389, Maputo-Moçambique
- Prof. Isabel Marques da Silva and Dr Graça Mandava Jaime, Universidade Lúrio, Pemba-Moçambique
- Dr Nahson Nehemia and Dr Cyrus Romisha, Sekoine University of Agriculture, Morogoro, Tanzania
- Mr Haji Mahingika, Senior Marine Warden, Tanga Coelacanth Marine Park, Tanzania
- Prof. Cyprian Katongo, University of Zambia, Zambia
- Ruth Leeney, Save Our Seas Foundation (project leader), Mozambique/Madagascar
- Dr Anantha Sreepada Rayadurga, Biological Oceanography Division, CSIR-National Institute of Oceanography, Dona Paula, Goa, India
- Prof. Sandhya Sukumaran, Central Marine Fisheries Institute, Kochi, Kerala, India
- Prof. Nuno Monteiro, Centre for Biodiversity and Genetic Resources (CIBIO/InBIO), Vairão, Portugal
- Prof. Peng Xu, College of Ocean and Earth Sciences, Xiamen University, PR China
- Prof. Sophie von der Heyden, Department of Botany and Zoology, Stellenbosch University, South Africa
- Prof. Luciano Beheregaray, Molecular Ecology Lab, Flinders University, Adelaide, Australia
- Dr Kolobe Mmonwa, KwaZulu-Natal Sharks Board, uMhlanga Rocks, Durban, South Africa.
- Prof. Marc Kochzius, Department of Biology, Vrije Universiteit Brussels, Brussels, Belgium



- Prof. Carl van der Lingen, Branch: Fisheries Management, Department of Forestry, Fisheries and the Environment, Vlaeberg, South Africa
- Prof. Christopher McQuaid, Department of Zoology and Entomology, Rhodes University, Grahamstown, South Africa

## MEDIA RELEASES, VIDEOS AND POPULAR ARTICLES

### 2009

Seahorses "stood up" 25 million years ago. Jennifer Viegas, Discovery Channel News.

<http://dsc.discovery.com/news/2009/05/06/seahorses-stand-up.html>

How seahorses evolved to swim "standing up". Matt Kaplan, National Geographic News.

<http://news.nationalgeographic.com/news/2009/05/090522-seahorses-stand-up.html>

Plattentektonik verhalf Seepferdchen zur aufrechten Haltung. Mutation durch Entstehung von

Flachmeeren begünstigt. <http://www.g-o.de/wissen-aktuell-10014-2009-06-08.html>

Pourquoi les hippocampes nagent-ils à la verticale? Caroline Lepage, MerSeaPlanète. <http://www.mer-littoral.org/actualites/actualites-hippocampes.php>

Teske PR, Beheregaray LB (2009) The Rise of Seahorses. **Australasian Science**, Nov/Dec issue.

[www.australasianscience.com.au/bi2009/310seahorses.pdf](http://www.australasianscience.com.au/bi2009/310seahorses.pdf)

### 2010

Molecular view reassesses species. Virginia Gewin, *Frontiers in Ecology and the Environment*, vol. 9, issue 7, page 368 (September 2010)

Newshub New Zealand: "Aussie invader wreaking havoc in far north": TV clip on *Pyura doppelganger*'s invasion of New Zealand: <http://www.newshub.co.nz/environmentsci/aussie-invader-wreaking-havoc-in-far-north-2010081213#axzz3SrqqmHyK>

## 2011

Scientific American: How the seahorse got its curves: <https://www.scientificamerican.com/article/how-the-sea-horse-got-curves/>

"Sea Squirt Celebrity", British Columbia Government, 3 Aug 2011, reprinted with permission from the BC public service

## 2015

Oceanbits: Small currents can make a big difference in population connectivity:

<http://oceanbites.org/small-ocean-currents-can-make-a-big-difference-in-population-connectivity/>

SA fish evolution faster than expected, says UJ researchers:

<https://www.uj.ac.za/newandevents/Pages/SA-fish-evolution.aspx>

## 2016

UJ: Ocean current study published in Nature journal highlights fisheries and marine park issues (2016):

<https://www.uj.ac.za/newandevents/Pages/Ocean-current-study-published-in-Nature-journal-highlights-fisheries-and-marine-park-issues.aspx> (2016)

Flinders: New study maps currents and marine animal movement (2016):

<https://news.flinders.edu.au/blog/2016/10/13/new-study-maps-currents-and-marine-animal-movement/>

InDaily: Tide turns on design of marine parks (2016): [https://indaily.com.au/news/science-and-](https://indaily.com.au/news/science-and-tech/2016/10/12/tide-turns-on-design-of-marine-parks/)

[tech/2016/10/12/tide-turns-on-design-of-marine-parks/](https://indaily.com.au/news/science-and-tech/2016/10/12/tide-turns-on-design-of-marine-parks/)

The Lead: Ocean super highways in the slow lane (2016):

<http://www.theleadsouthaustralia.com.au/industries/research-development/ocean-super-highways-in-the-slow-lane/>

## 2018

ScienceDaily: Fishing quotas upended by nuclear DNA analysis:

<https://www.sciencedaily.com/releases/2018/08/180814101424.htm>

Indo-European.edu: Mitochondrial DNA unsuitable to test for IBD, and undersampling genomes show biased time and rate estimates: <https://indo-european.eu/2018/06/mitochondrial-dna-unsuitable-to-test-for-ibd-and-undersampling-genomes-show-biased-time-and-rate-estimates/>

YouTube: Mitochondrial DNA is unsuitable to test for isolation by distance:

<https://www.youtube.com/watch?v=DH9fCjAAyHc&t=42s>

## 2019

First proof that water temperatures drive evolution of new species: <https://www.iflscience.com/plants-and-animals/first-proof-that-water-temperatures-drive-evolution-of-new-species/>

Water temperature found to drive fish evolution: <https://cosmosmagazine.com/biology/water-temperature-found-to-drive-fish-evolution-1>

Differences in water temperature can create new marine species: <https://phys.org/news/2019-02-differences-temperature-marine-species.html>

Differences in water temperature can create new marine species. Warm and cool water temperatures over a long stretch of coastline cause new species of marine fish to evolve:

<https://www.sciencedaily.com/releases/2019/02/190205204052.htm>

Differences in coastal water temperatures can create new species: <https://www.earth.com/news/coastal-water-temperatures-new-species/>

Differences in water temperature can create new species:

<http://www.scoop.co.nz/stories/SC1902/S00015/differences-in-water-temperature-can-create-new-species.htm>

New genetic research at UJ shows return migration of female ragged-tooth sharks in South Africa

<https://www.uj.ac.za/newandevents/Pages/New-genetic-research-at-UJ-shows-return-migration-of-female-ragged-tooth-sharks-in-SA-.aspx>

Radio interview (UJFM) on female raggedtooth sharks' return migrations (26 February 2019)

<https://twitter.com/ujfm/status/1100353591380979712>

## 2020

UJ Postgraduate Open Day, invited speaker: "Strategies for managing your scientific writing: proposals, theses and publications: youtube video (37 min): <https://www.youtube.com/watch?v=PpggmAifpsc>

[twitter.com/ujlibscience/status/1232256978497523712](https://twitter.com/ujlibscience/status/1232256978497523712)

Academic Integrity Days 2020, invited Zoom webinar speaker: "Academic misconduct: how to ruin your own career in 12 easy steps".

Deutsche Welle News: "Sydney's endangered seahorses find refuge in underwater hotels".

<https://www.dw.com/en/endangered-species-whites-seahorse-ocean-protection-biodiversity-australia/a-54154808>

## 2021

The Conversation (Peter Teske et al.): "South Africa's massive 'sardine run' leads fish into an ecological trap." <https://theconversation.com/south-africas-massive-sardine-run-leads-fish-into-an-ecological-trap-168413> 37 655 and 474 reads (English and French versions, respectively)

Scientific American (Nikk Ogasa): "Mystery of doomed sardine migration if finally solved".

<https://www.scientificamerican.com/article/mystery-of-doomed-sardine-migration-is-finally-solved/>

The Scientist (Alex Billow): "Famous South African sardine run doesn't benefit sardines: study".

<https://www.the-scientist.com/news-opinion/famous-south-african-sardine-run-doesn-t-benefit-sardines-study-69327>

Science Podcasts AAAS (Sarah Crespi): "Science: potty-trained cows, massive sardines run off South Africa". <https://podcasts.apple.com/bn/podcast/potty-training-cows-and-sardines-swimming-into/id120329020?i=1000535567274>

Radio interviews on the KwaZulu-Natal sardine run on SAfm (<https://omny.fm/shows/safm-sunrise-1/south-africa-s-massive-sardine-run-leads-fish-into>), CapeTalk (<https://www.capetalk.co.za>), Talk Radio 702 (<https://www.702.co.za/>) and the South African Agency for Science and Technology Advancement (SAASTA; <https://www.saasta.ac.za>)

IFL Science: "One of the world's largest marine migrations makes no evolutionary sense".

<https://www.iflscience.com/plants-and-animals/one-of-the-worlds-largest-marine-migrations-makes-no-evolutionary-sense/>

MSN: "The greatest shoal on Earth: Scientists discover why sardines run". <https://www.msn.com/en-za/news/other/the-greatest-shoal-on-earth-scientists-discover-why-sardines-run/ar-AAOrB0k?li=BBqfWMJ&srcref=rss>

AZO Life Sciences: "Genomics data helps explain the world's biggest migration of sardines."  
<https://www.azolifesciences.com/news/20210916/Genomics-data-helps-explain-the-worlds-biggest-migration-of-sardines.aspx>

Times Live: "Mystery of why annual 'sardine run' happens revealed".  
<https://www.timeslive.co.za/news/south-africa/2021-09-15-mystery-of-why-annual-sardine-run-happens-revealed/>

ScienceDaily: "World-famous sardine migration explained by genomics; scientists discover how one of the world's biggest migration events functions".  
<https://www.sciencedaily.com/releases/2021/09/210915161346.htm>

The Science Times: "Biggest marine migration of sardines found pointless with no impact to evolution while most of them die in the process". <https://www.sciencetimes.com/articles/33495/20210917/biggest-marine-migration-sardines-found-pointless-impact-evolution-die-process.htm>

(Please find additional news releases and twitter mentions about the sardine run at: <https://scienceadvances.altmetric.com/details/113503185>)

# PUBLICATIONS

## PEER REVIEWED SCIENTIFIC JOURNAL ARTICLES

(supervised postgraduate students are underlined)

1. Weiss S-E, Emami-Khoyi A, Kaiser H, Cowley PD, James N, van Vuuren BJ, Whitfield AK, **Teske PR** (2022) The last two remaining populations of the critically endangered estuarine pipefish are inbred and not genetically distinct. **Frontiers in Marine Science** 8:756595. doi: 10.3389/fmars.2021.756595
2. **Teske PR**, Emami-Khoyi A, Golla TR, Sandoval-Castillo J, Lamont T, Chiazzari B, McQuaid CD, Beheregaray LB, van der Lingen CD (2021) The sardine run in southeastern Africa is a mass migration into an ecological trap. **Science Advances** 7: eabf4514. **High impact factor: 14.1; Altmetric score: 202 (top 5% of all research articles).**

3. **Teske PR** (2021) Perspectives: Mitochondrial genome announcements need to consider existing short sequences from closely related species to prevent taxonomic errors. **Conservation Genetics Resources**. 13: 359–365.
4. Emami-Khoyi A, Agnew T, Adair M, Murphy E, Benmazouz I, Monsanto DM, Parbhu S, Main D, Le Roux R, Golla TR, Schnelle C, Alizadeh H, Csanyi S, Heltai M, van Vuuren BJ, **Teske PR**, Paterson A, Ross J (2021) A new non-invasive method for collecting DNA from small mammals in the field, and its application in simultaneous vector and disease monitoring in brushtail possums. **Frontiers in Environmental Science** 7: 701033.
5. Mmonwa KL, Barker NP, McQuaid CD, **Teske PR** (2021) Coastal dunefields maintain pre-Holocene genetic structure in a rocky shore red alga. **Journal of Phycology** 57: 1542–1553.
6. Ngwakum BB, Payne RP, **Teske PR**, Janson L, Kerwath S, Samaai T (2021) Hundreds of new DNA barcodes for South African sponges. **Systematics and Biodiversity**.
7. Tine M, Kuhl H, **Teske PR**, Reinhardt R (2021) Genome-wide analysis of European sea bass provides insights into the evolution and functions of single-exon genes. **Ecology and Evolution** 11: 6546–6557.
8. Serite CP, Ntshudisane O, Swart E, Simbine L, Jaime GLM, **Teske PR** (2021) Limitations of DNA barcoding in determining the origin of smuggled seahorses and pipefishes. **Forensic Science International: Animals and Environments** 1: 100006.
9. Hudson J, Castilla JC, **Teske PR**, Beheregaray LB, Haigh ID, McQuaid CD, Rius M (2021) Genomics-informed models reveal extensive stretches of coastline under threat by an ecologically dominant invasive species. **Proceedings of the National Academy of Sciences of the USA** 118: e2022169118. **High impact factor: 11.2**
10. Dinoi A, Rius M, Tine M, **Teske PR** (2021) Development of genetic tools for the red bait species *Pyura herdmani* and *P. stolonifera*, important bioengineers along African coastlines. **African Journal of Marine Science** 43: 251–257.
11. Emami-Khoyi A, Knapp I, Monsanto DM, Jansen van Vuuren B, Toonen RJ, **Teske PR** (2021) Genomic divergence and differential gene expression between crustacean ecotypes across a marine thermal gradient. **Marine Genomics** 58: 100847.
12. Emami-Khoyi A, Le Roux R, Adair MG, Monsanto DM, Main DC, Parbhu SP, Schnelle C, van der Lingen C, Jansen van Vuuren B, **Teske PR** (2021) Transcriptomic diversity in the livers of South African sardine participating in the annual Sardine Run. **Genes** 12: 368.

13. [Mkare TK](#), van Vuuren BJ, **Teske PR** (2021) Conservation priorities in an endangered estuarine seahorse are informed by demographic history. **Scientific Reports** 11:4205.
14. Tladi M, [Emami-Khoyi A](#), Dau T, **Teske PR**, van Vuuren BJ, Rogers C, Nyamukondiwa C, Wasserman RJ (2021) The complete mitogenome of *Lepteshteria breviostris* Barnard, 1924, a rockpool clam shrimp (Branchiopoda: Spinicaudata) from Central District, Botswana. **Mitochondrial DNA B** 6:608-610.
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Created, expanded or corrected the following pages on Wikipedia: Hippocampinae, *Hippocampus capensis*, *Hymenosoma*, *Pyura dalbyi*, *Pyura doppelgangera*, *Pyura praeputialis*, *Pyura stolonifera*, *Syngnathus acus*, *Syngnathus temminckii*, *Syngnathus watermeyerii*