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## Dr Isabel Smallegange SFHEA

### Senior Lecturer in Population Biology

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## Qualifications

- 2022 Senior Fellowship of the Higher Education Academy (UK)
- 2014 University Teaching Qualification for Lecturers (NL)
- 5 Sep 2007 PhD, '*Interference competition and patch choice in foraging shore crabs*' (0.8 fte)  
Netherlands Institute for Sea Research & University of Amsterdam, The Netherlands
- 2000 BSc + MSc Population Biology, Wageningen University, The Netherlands

## Professional history

- 2022 – present **Senior Lecturer**, SNES, Newcastle University, UK
- 2023 – present **Group Lead**, Modelling, Evidence and Policy group, Newcastle University, UK
- 2022 – present **Co-Director** Centre for Behaviour and Evolution, Newcastle University, UK
- 2019 – present **Visiting scholar**, Neth. Inst. for Sea Research (NIOZ), NL
- 2018 – 2022 **Associate Professor**, Faculty of Science, University of Amsterdam, NL
- 2013 – 2018 **MacGillavry Fellowship**, Faculty of Science, University of Amsterdam, NL
- 2010 – 2013 **Research Fellow** at Imperial College & University of Oxford, UK
- 2008 – 2010 **Rubicon Fellowship** (NWO) – held at Imperial College London, UK
- 2007 – 2008 **Alexander v Humboldt Fellowship** – held at Max Planck Inst. for Ornithology, G
- 2005 **Marie Curie Research Trainee Fellowship** – held at University of Exeter, UK

## Research

### Evidence of international reputation for research

- **2.8ME (personal) grant money** awarded
- **>30 invited talks** since obtaining my PhD in 2007
- **Associate Editor (4 journals; 1 peer community):** *Functional Ecology* (since 2018), *Oikos* (since 2013), *Entomologia Experimentalis et Applicata* (since 2019), and *Journal of Animal Ecology* (2011 – 2014); *Recommender* for *PCI Zoology* (since 2019)
- **Grant Reviewer** for Austrian Science Fund, Earthwatch, ERC H2020, NERC, ESF-FWO, Norway Research Council, NSF, NWO, Swiss National Science Foundation, The Royal Society, Leverhulme
- **Manuscript Reviewer** for >40 journals, incl. Nature, PNAS, Nature Ecol & Evol, Scientific Reports
- **Invited member** of the **European Science Foundation College of Expert Reviewers**

### Grants, Fellowships, and Awards

- 2022 **Co-I** on 1M€ work package within 9M€ awarded to NWA-ORC MetaHealth consortium
- 2021 **Travel grant**, €4,011, Amsterdam University Fund (PI)
- 2019 **1.5 yr, 0.8 fte, Post Doc position**, €96,403, funded by Faculty of Science (UvA) (PI)
- 2017 **Marie Curie Fellowship** ECOEVOCLIM €165,599 (co-supervisor)
- 2017 **Nomination for Lecturer of the Year** 2017 (University of Amsterdam)
- 2015 **3-yr, 1 fte, Post Doc position**, €185,000, funded through MacGillavry Fellowship (UvA)
- 2014 **Aspasia Grant** (Dutch Research Council) (PI), € 100,000 (declined)
- 2014 **VIDI Fellowship** (Dutch Research Council) (PI), 5 yrs, € 800,000
- 2013 **MEERVOUD Fellowship** (Dutch Research Council) (PI), 4 yrs, € 225,000
- 2013 **MacGillavry Fellowship** (University of Amsterdam) (PI). 5 yrs, € 850,000
- 2010 **Nomination in "Viva400"**: 400 most talented women under 38 in The Netherlands (Viva)

- 2009 **Dutch Wadden Academy Prize** for best PhD thesis, € 5,000  
 2008 **Rubicon Fellowship** (Dutch Research Council) (PI), 2 yrs, € 87,480  
 2007 **Alexander von Humboldt Fellowship** (AvH Foundation) (PI), 1 yr, € 25,000  
 2005 **Marie Curie Research Fellowship** (Marie Curie Fellowship Association) (PI), 6 mo, £ 6,000  
 2001 **Poster award**, First European Conference on Behavioural Biology, Münster (Germany)

### Collaborations (current, and post-PhD co-publications)

- **University of Jyväskylä - Emily Knott:** endosymbionts in polychaetes
- **NIOZ (NL) - Allert Bijleveld:** Demography of polychaetes.
- **UBC (Canada) - Jonathan Davies:** The role of phylogenetic diversity in disease outbreaks.
- **CRIOBE (France/Polynesia) - Serge Planes:** Recruitment and conservation of sharks.
- **NIOZ (NL) - Anieke van Leeuwen:** Size-structured fish ecology under anthropogenic pressures.
- **Utrecht University (NL) - Willem Frankenhuis:** developmental plasticity in (non)human animals
- **Adam Mickiewicz University (Poland) - Michał Kolasa:** Genetic diversity in bulb mites.
- **VU University (NL) - Matty Berg:** Stochastic demography of *Orchestia gammarellus*.
- **Lund University (Sweden) - Jacob Johansson:** Evolution of male dimorphisms.
- **Zavora Marine Lab (Mozambique) - Yara Tibiriça:** Demography of reef manta rays.

### Invited talks (last ten years) \* *declined due to care duties*

- 2023 Symposium keynote speaker at Int. Society for Developmental Psychobiology (NL)  
 2022 Keynote speaker Int. Conference on Stickleback Behaviour and Evolution (IS)  
 2022 Symposium keynote speaker at the Congress of the European Society for Evol. Biology (CZ)  
 2022 Departmental seminar – Dept Biological and Environmental Science, Univ. of Jyväskylä (FN)  
 2022 Seminar – Centre for Behaviour and Evolution, Newcastle University (UK)  
 2021 Departmental seminar – Department of Philosophy, Ruhr-University Bochum (D)  
 2021 Departmental seminar – Department of Biology, Université de Sherbrooke (Canada)  
 2021 Departmental seminar – Behavioural Ecology seminar series, LMU München (D)  
 2020 Keynote speaker at EVENET eco-evolutionary dynamics symposium (B)  
 2019 Symposium keynote speaker at the Congress of the European Society for Evol. Biology\* (FN)  
 2018 Symposium keynote speaker at Evolution (Joint Congress on Evol. Biology), Montpellier\* (F)  
 2017 Symposium keynote speaker at the Congress of the European Society for Evol. Biology (NL)  
 2017 Dutch Society of Theoretical Biology – mite/modelling mini-session (NL)  
 2016 Workshop “Integrating dynamic energy budget into integral projection models” based on my paper in *Methods in Ecology and Evolution*, Netherlands Institute for Sea Research (NL)  
 2016 EIS-day Symposium (EIS Kenniscentrum Insecten), Naturalis Leiden (NL)  
 2016 Per Brink Symposium, Turku (FIN) (declined due to teaching conflict)  
 2015 Departmental seminar, Free University (VU) Amsterdam (NL)  
 2015 Symposium on individual variation, University of Tromsø (N) (all costs paid)  
 2015 Departmental seminar, University of Gent (B) (declined due to teaching conflict)  
 2014 Departmental seminar, University of Bern (CH) (all costs paid)  
 2014 XIV International Congress of Acarology, Kyoto (Japan) (declined in favour of Bern talk)  
 2013 BIO symposium, Biodiversity resilience, University of Oxford (UK)  
 2013 INTECOL Congress, Ecology: Into the next 100 years, London (UK)

### Teaching: supervision, course design, mentoring, programme administration

#### Supervision of BSc, MSc, PhD students and Post Docs

- 2023 – present **Co-supervisor** of Chi-Yen Hsieh, **PhD student** at Newcastle University  
 2022 – present **Academic supervisor** of Lukas Edwards, **PhD student** Newcastle University  
 2022 – present **Co-supervisor** of Melissa Versteeg, **PhD student** at Newcastle University  
 2022 – present **Co-supervisor** of Sol Lucas, **PhD student** at Newcastle University

2020 – present	<b>Co-supervisor</b> of Marjolein Toorians, <b>PhD student</b> at UBC (Canada)
2019 – present	<b>Co-supervisor</b> of Mark Rademaker, <b>PhD student</b> at NIOZ (NL)
2019 – present	<b>Co-supervisor</b> of Kim Eustache, joint doctorate <b>PhD student</b> at CRIOBE/UvA
2007 – present	<b>Supervisor</b> of on average <b>6 BSs/MSc student projects per year</b>
2020	<b>Co-supervisor</b> of Rula Domínguez, <b>visiting PhD student</b> from University of Vigo
2017 – 2022	<b>Co-supervisor</b> of Naomi Zweerus, <b>PhD student</b> at UvA (NL)
2017 – 2021	<b>Supervisor</b> of <b>Post Doc</b> Kathryn Stewart at UvA
2017 – 2019	<b>Co-supervisor</b> of <b>Marie Curie Fellow</b> Laura Gangoso at UvA
2015 – 2018	<b>Supervisor</b> of <b>Post Doc</b> Jacques Deere at UvA
2015 – 2022	<b>Academic supervisor</b> of Flor Rhebergen, <b>PhD student</b> at UvA
2014 – 2019	<b>Academic supervisor</b> of Tom van den Beuken, <b>PhD student</b> at UvA
2011 – 2015	<b>Academic supervisor</b> of Jacques Deere, <b>PhD student</b> at Oxford University

## PhD thesis defence committees / PhD progress review panels

- **PhD Progress Review Panel** Kristina Pascual, Hollie Pufal, Newcastle University (2022-2025)
- **12 PhD defence committees @ UvA:** Morgan Brown (2022), Pedro Branco (2021), Rik Lievers (2021), Silke van Daalen (2020), Charlotte de Vries (2019), Catalina Chaparro Pedraza (2019), Hanna ten Brink (2018), Nina Zhang (2018), Alexandra Ravinhi (2017), Karen Muñoz (2017), Heike Staudacher (2016), and Paulien de Bruin (2015)
- **Invited to serve on habilitation thesis committee** (declined as I could not travel abroad due to care duties): Tom van Dooren (2019). iEES Paris, Université Pierre et Marie Curie (UPMC).
- **Invited to serve on overseas PhD defence committee** (declined as I could not travel abroad due to care duties): Soledad Castaño (2016; National Institute for Agricultural Research (INRA) and the Center for International Research in Agriculture and Development (CIRAD), Guadeloupe.
- **PhD upgrade viva** of Harry Marshall (2011) at Imperial College London

## Course and curriculum design

- Corona crisis team online/onsite teaching Future Planet Studies Bachelor Sep-Dec 2020
- MSc track '[Future Planet Ecosystem Science](#)' at the IBED (UvA) (member of core design team)
- 3<sup>rd</sup> year BSc course 'Evolution & Behaviour' (course design)

## Lecturing and course convener

- **Lecturer** – BIO2036 Molecular Evolution and Systematics (Stage 2) (2022 – now)
- **Lecturer** – BIO2028 Biodiversity, Ecology & Conservation (Stage 2) (2022 – now)
- **Tutor** – MST1204 Academic and Professional Skills for the Biosciences (Stage 1) (2022 – now)
- **Supervisor** – TESLA interdisciplinary MSc minor (science, business, society); 30 EC (2021 – 2022)
- **Lecturer** – Psychobiology Year 2 Review; 6 EC BSc course (2019 – 2022)
- **Convener and lecturer** - 'Toekomstperspectief voor de Aarde'; 6 EC BSc course (2017 – 2022)
- **Lecturer** - Grand Challenges of Human-Ecosphere Interactions; 6 EC MSc course (2017 – 2022)
- **Lecturer** – Current Trends in Ecology & Evolution; 6 EC MSc course; (2014 – 2022)
- **Convener and lecturer** - Evolution & Behaviour; 12 EC BSc course; (2015 – 2020)
- **Lecturer** - Integral Projection Models; 2 EC PhD/PD Course @ Transmitting Science (2017)
- **Lecturer** - 'Reguleren van Vorm en Functie van Dieren'; BSc course (2015 - 2018)
- **Lecturer** - Evolutiebiologie Theorie; BSc course; University of Amsterdam (2003-2008; 2014)
- **Convener and lecturer** - Behavioural Ecology; MSc course; Imperial College (2012)
- **Tutor** - Tutorials; BSc course; Imperial College London (2010)
- **Lecturer** - Demography and Management; MSc course; Imperial College London (2009)

## Mentoring

- **British Ecological Society Mentor** for returners to academia after a career break.
- **Career mentor** for several current and former PhD students.

## Programme administration

- 2022 – present **Senior Tutor** (biology/zoology undergraduates) (Newcastle University)  
 2022 – present **Joint Honours Liaison** Biology – Psychology (Newcastle University)  
 2022 – present **Peer Mentor Coordinator** Biology/Zoology  
 2020 – 2022 Member **Programme Committee** Bachelor Future Planet Studies (UvA)  
 2018 – 2022 Member **Programme Committee** Bachelor Biology (UvA)

## Academic leadership, services and management

- 2023 – present **Group Lead**, Modelling, Evidence and Policy group, Newcastle University, UK  
 2022 – present **Co-director** Centre for Behaviour and Evolution, Newcastle University, UK  
 2019 – present **Associate Editor** for *Entomologia Experimentalis et Applicata*  
 2019 – present **Recommender** for [PCI Zoology](#)  
 2018 – present **Associate Editor** for *Functional Ecology*  
 2013 – present **Subject Editor** for *Oikos*  
 2022 **Member** tenure track midterm evaluation committee University of Amsterdam  
 2021 **Member** steering committee Dutch research community Organisms in the Environment Netherlands Organisation for Scientific Research  
 2021 – 2022 **Elected Member** of the Faculty of Science Works Council (UvA)  
 2020 – 2021 **Member** sounding board evaluation tenure track policy Faculty of Science (UvA)  
 2018 – 2022 **Mentor**, Women in Science, British Ecological Society  
 2018 – 2021 **Elected Chair** of the Faculty of Science Works Council (UvA)  
 2018 – 2019 **Chair** Scientific Advisory Council at the IBED (UvA)  
 2017 – 2018 **Founding member** and **Treasurer** of ‘De Amsterdamse Academie’: a society active in the Faculty Works Councils of the University of Amsterdam  
 2016 – 2017 **Member** of the core team to revise human resource management for the 2017-2022 strategic plan of the IBED (UvA)  
 2016 – 2017 **Member** of the core team to design the new Master course ‘Future Planet Ecosystem Science’ at the IBED (UvA)  
 2015 **Organiser** Zoology 2015 Congress (Dutch/ Belgian zoological society meeting)  
 2014 **Founder of PhD/PD Council** at the IBED (UvA)  
 2014 **Session convener** Netherlands Annual Ecology Meeting  
 2011 – 2014 **Associate Editor** for Journal of Animal Ecology  
 2011 – 2012 **Organiser** First (2011) and Second (2012) Post Doc Symposium at Imperial College  
 2009 – 2011 **Convener** of well-attended lunchtime seminar series at Imperial College London  
 2003 **Organiser** “Interference competition” symposium Neth. Inst. for Sea Research

## Memberships & committees

- 2022 – present **SNSF Swiss Postdoctoral Fellowships Selection Committee**  
 2021 – present Invited member of the **European Science Foundation College of Expert Reviewers**  
 2008 – present **Member** of the British Ecological Society  
 2022 **Panel Chair** of **Grant Selection Committee** Dutch Research Council  
 2016 – 2022 **Staff member** Production Ecology & Resource Conservation Graduate School (NL)  
 2020 – 2021 Member **Programme Committee** Bachelor Future Planet Studies (UvA)  
 2019 – 2021 Member **Scientific Advisory Council** at the IBED (UvA)  
 2018 – 2021 Member **Programme Committee** Bachelor Biology (UvA)  
 2019 **Advisory Appointment Committee** tenure track theoretical ecology position  
 2017 – 2019 **DO-VENI Fellowship Selection Committee** of NWO (3x)  
 2015 – 2016 **Member** of the lecturer ‘sounding board’ at the Faculty of Science of UvA  
 2015 **Member** of the scientific committee of the Zoology 2015 Congress

2015	<b>Grant Selection Committee</b> of NWO Earth and Life Sciences
2015	<b>Member</b> of the PB/EB/EPS Profile Committee at IBED (UvA)
2014 - 2017	<b>Search Committees</b> at University of Amsterdam (5 PhD students; 3 Post Docs)
2012 – 2020	<b>Member</b> of Peerage of Science
2011 – 2012	<b>Member</b> of the Life Sciences Post Doc Committee (Imperial College London)
2011 – 2012	<b>Post Doc Representative</b> (Imperial College London)
2009 – 2012	<b>Faculty Member</b> of F1000 ( <a href="http://www.f1000biology.com">www.f1000biology.com</a> )
2009 – 2012	<b>Search Committee</b> Coulson group (2x PhD student; 1x Post Doc) (Imperial College)
2002 – 2006	<b>Member</b> of the PhD committee at the Netherlands institute for Sea Research
2001 – 2002	<b>Chair</b> of the PhD committee at the Netherlands institute for Sea Research
2000 – 2005	<b>Member</b> of the Netherlands Society for Behavioural Biology

## Impact, media coverage and outreach

### Impact & media coverage

- Paper Smallegange (2022) referred to in newspaper [Iceland Review](#) (2022) following keynote at the International Conference on Stickleback Behaviour and Evolution.
- *The Sea is Not Made of Water: Life Between the Tides* by Adam Nicolson (2021) (longlisted for the Wainwright Prize 2022) mentions paper Smallegange et al. 2010.
- The demographic analyses on marine turtles by Smallegange et al. (2020: *Frontiers Mar Sci*) used in Draft Report to the IUCN-SSC Marine Turtle Specialist Group (Nalovic et al. 2021).
- [Human Odyssey Podcast](#) (2020) on manta ray work (Smallegange et al. 2016; 2019)
- Stewart et al. (2018) highlighted in [UvA press release](#), [Phys.Org](#), [Aurus](#), among others.
- Paper Smallegange et al. (2017, *MEE* 8:146-154) highlighted in 2018 *Methods in Ecology and Evolution* Virtual Issue [Integrating Ecology and Evolution](#).
- Paper Smallegange & Egas (2015: *Trends Ecol Evol* 30:379-381) recommended in F1000 as ‘controversial’ and ‘interesting hypothesis’ (F1000Prime.com/726284535), and in a F1000 Faculty Review (Kramer J & Meunier J. *F1000Research* 2016, 5:776 doi:10.12688/f1000research.8018.1).
- Shark Year Magazine (USA) featured reef manta ray demography in Smallegange et al. (2016).
- The demographic analysis by Smallegange et al. (2016: *PeerJ* 4:e2370), conducted with the non-academic organisation Zavora Marine Lab, has been put forward to local government and biologists to aid in the protection of reef manta rays off the coast of Mozambique.
- The publication “Smallegange et al. (2014)” was covered in the Sensory Ecology Blog of Vassar College, Poughkeepsie, New York (USA).
- The publications “Smallegange (2011a,b)” were highlighted in the EURAAC (European Association of Acarologists) June 2011 newsletter for the novel approach to understanding polymorphisms.
- Papers Smallegange & van der Meer (2007) and Smallegange et al. (2007) were used as discussion material in the course “*Is deviating from rational conduct rational? Economic behavior in humans and other animals*”, Vassar College, Poughkeepsie, New York (USA)
- My PhD research has received media attention in several international newspapers and was featured in a book on science conducted in the Netherlands in 2007: “*Experiment NL: Wetenschap in Nederland*” (2007), discussed in the book ‘*Soccermatics – Mathematical Adventures in the Beautiful Game* (2016) by David Sumpter.

### Outreach

- ‘WILD IDEE - Ontstaan diersoorten juist sneller buiten de soortenrijke tropen?’ (2021) *Volkskrant*.
- Blogs: I write a blog [on work-life balance in academia](#) and [on my eco-evolutionary dynamics research](#). I also write for blogs of journals [Oikos](#), [Journal of Animal Ecology](#) and [Functional Ecology](#), and contribute to the [Rapid Ecology](#) blog.
- [Human Odyssey Podcast](#) (2020) on manta ray work (Smallegange et al. 2016; 2019)

- Smallegange IM, Berg MP (2020). A slow pace of life makes animals more sensitive to unpredictable climate variations. *Amsterdam Science* 11:3.
- Primary schools: “*Waterbeestjes*” 4-6 yr olds; “*Muziek en biologie*” 4-6 yr olds (Heiloo, 2019).
- Seminar at the congress “Leve de Biologie 2017”; an initiative to present secondary school teachers cutting-edge research and discuss links between universities and schools.
- I have talked about my science at societal institutions such as an amateur entomologist convention (EIS) in 2016 and Ecomare (a nature museum and marine animal shelter) in 2003.
- I have spoken at MSc and PhD symposia and meetings on my career experiences in academia e.g. at the University of Amsterdam (2015), Leiden University (2016), NLSEB meeting (2019).
- I have written popular science articles for the popular science magazines *Kunst and Wetenschap* (2007) and *Wadden Academy Magazine* (2010)

## Publication List

### Peer-reviewed publications

<sup>(i)</sup> invited contribution (9x); BSc, MSc and PhD students are underlined;

\* corresponding author; § shared first authorship

- Deere JA, **Smallegange IM**<sup>\*§</sup>. 2023. Individual differences in developmental trajectory leave a male polyphenic signature in bulb mite populations. *Preprint*.  
<https://doi.org/10.1101/2023.02.06.527265>
- Romeijn J, **Smallegange IM**<sup>\*</sup>. 2022. Exploring how the fast-slow pace of life continuum and reproductive strategies structure microorganism life history variation. *Preprint*.  
<https://doi.org/10.1101/2022.11.28.517963>
- Rhebergen FT, **Smallegange IM**. Facultative release from developmental constraints through polyphenism promotes adaptively flexible maturation. *Preprint*.  
<https://doi.org/10.1101/2021.06.14.448392>
- 56 Rhebergen FT, Stewart KAS, **Smallegange IM**<sup>\*</sup>. 2022. Nutrient-dependent allometric plasticity in a male-diphenic mite. *Ecology and Evolution*. 12: e9145
- 55 Zweerus NL, van Wijk M, **Smallegange IM**, Groot AT. 2022. Mating status affects female choice when females are signallers. *Ecology and Evolution* 12: e8864
- 54 **Smallegange IM**. 2022. Integrating developmental plasticity into eco-evolutionary population dynamics. *Trends in Ecology & Evolution* 37:129-137
- 53 Zeeman AN, **Smallegange IM**, Burdfield Steel E, Groot AT, Stewart KA. 2022. Toward an understanding of the chemical ecology of alternative reproductive tactics in the bulb mite (*Rhizoglyphus robini*). *BMC Ecology & Evolution* 22:5.
- 52 Rademakers M, **Smallegange IM**, van Leeuwen A. Causal links between North Sea fish biomass trends and seabed structure. 2021. *Marine Ecology Progress Series* 677: 129-141.
- 51 Domínguez R, Vázquez E, **Smallegange IM**, Woodin SA, Wethey DS, Peteiro LG, Olabarria C. Predation risk increases in estuarine bivalves stressed by low salinity. 2021. *Marine Biology* 168:132
- 50 Deere JA, van den Berg I, Roth G, **Smallegange IM**. 2021. A modelling exercise to show why population models should incorporate distinct life histories of dispersers. *Population Ecology* 63: 134-144.
- 49 <sup>(i)</sup> **Smallegange IM**, Flotats Avilés M, Eustache K. 2020. Unusually paced life history strategies of marine megafauna drive atypical sensitivities to environmental variability. *Frontiers in Marine Science* 7:597492
- 48 <sup>(i)</sup> **Smallegange IM**<sup>\*§</sup>, Rhebergen FT<sup>§</sup>, Stewart KA. 2019. Cross-level considerations for explaining selection pressures and the maintenance of genetic variation in condition-dependent male morphs. *Current Opinion in Insect Science* 36: 66-73.
- 47 **Smallegange IM**, Berg M. 2019. A functional trait approach to identifying life history patterns in stochastic environments. *Ecology and Evolution* 9: 9350-9361
- 46 van den Beuken TPG, Stockwell L, **Smallegange IM**. 2019. *Et tu*, brother? Kinship and increased nutrition lower cannibalism incidence in male bulb mites. *Animal Behaviour* 152: 45-52
- 45 Stewart KA, Draaijer R, Kolasa MR, **Smallegange IM**. 2019. The role of genetic diversity in the evolution and maintenance of environmentally-cued, male alternative reproductive tactics. *BMC Evolutionary Biology* 19:58



- 44 van den Beuken TPG, Duinmeijer CC, Smallegange IM. 2019. Costs of weaponry: unarmed males sire more offspring than armed males in a male-dimorphic mite. *Journal of Evolutionary Biology* 32: 153-162
- 43 (i) Croll JC, Egas M, Smallegange\* IM. 2019. An eco-evolutionary feedback loop between population dynamics and fighter expression affects the evolution of alternative reproductive tactics. *Journal of Animal Ecology* 88: 11-23.
- 42 van den Beuken TPG, Smallegange IM. 2018. Life-history consequences of bidirectional selection for male morph in a male-dimorphic bulb mite. *Experimental and Applied Acarology* 76: 435-452
- 41 van den Beuken TPG, Smallegange IM. 2018. Life history consequences of nutritional history in a male dimorphic mite: evidence for a nuptial gift? *Evolutionary Ecology* 32: 411-425
- 40 Stewart KA, van den Beuken TPG, Rhebergen FT, Deere JA, Smallegange IM. 2018. Evidence for a third male type in a male-dimorphic model species. *Ecology* 99: 1685-1687
- 39 (i) **Smallegange IM, Ens HM**. 2018. Trait-based predictions and responses from laboratory mite populations to harvesting in stochastic environments. *Journal of Animal Ecology* 87: 893-905
- 38 (i) Hamel S, Yoccoz NG, Gaillard J-M, Bassar RD, Bouwhuis S, Caswell H, Douhard M, Gangloff EJ, Gimenez O, Lee PC, **Smallegange IM**, Steiner UK, Vedder O, Vindenes Y. 2018. General conclusion to the special issue Moving forward on individual heterogeneity. *Oikos*. 127: 750-756
- 37 (i) **Smallegange IM, Fernandes RE, Croll JC**. 2018. Population consequences of individual heterogeneity in life histories: overcompensation in response to harvesting of alternative reproductive tactics. *Oikos* 127: 738-749.
- 36 Deere JA, Coulson T, Cubaynes S, Smallegange IM. 2017. Unsuccessful dispersal affects life history characteristics of natal populations: The role of dispersal related variation in vital rates. *Ecological Modelling* 366: 37-47.
- 35 **Smallegange IM, Caswell H, Toorians MEM, de Roos AM**. 2017. Mechanistic description of population dynamics using dynamic energy budget theory incorporated into integral projection models. *Methods in Ecology and Evolution* 8: 146-154.
- 34 **Smallegange IM, van der Ouderaa IBC, Tibiriça Y**. 2016. The effect of yearling, juvenile and adult survival on reef manta ray (*Manta alfredi*) demography. *PeerJ*. 4:e2370.
- 33 (i) **Smallegange IM**. 2016. Life History Trade-offs. In: Kliman, R.M. (ed.), *Encyclopedia of Evolutionary Biology*. Vol. 2, pp. 390–393. Oxford: Academic Press.
- 32 Deere JA, Coulson T, Smallegange IM. 2015. Life history consequences of the facultative expression of a dispersal life stage in the phoretic bulb mite (*Rhizoglyphus robini*). *PLoS ONE* 10(9): e0136872.
- 31 **Smallegange IM, Egas, CJM**. 2015. Good for the group? Explaining apparent group-level selection. *Trends in Ecology & Evolution* 30: 379-381
- 30 (i) **Smallegange IM, Deere JA**. 2014. Eco-evolutionary interactions as a consequence of selection on a secondary sexual trait. *Advances in Ecological Research* 50: 145-169.
- 29 Leigh DM, Smallegange IM. 2014. Effects of variation in nutrition on male morph development in the bulb mite *Rhizoglyphus robini*. *Experimental and Applied Acarology* 64: 159-170.
- 28 **Smallegange IM, Deere JA, Coulson T**. 2014. Correlative changes in life-history variables in response to environmental change in a model organism. *American Naturalist* 186: 784-797.
- 27 Deere JA, Smallegange IM. 2014. Does frequency-dependence determine male morph survival in the bulb mite, *Rhizoglyphus robini*? *Experimental and Applied Acarology* 62: 425-436.



- 26 **Smallegange IM**, Johansson J. 2014. Life history differences favour evolution of male dimorphism in competitive games. *American Naturalist* 183: 188-198.
- 25 **Smallegange IM**, Coulson T. 2013. Towards a general, population-level understanding of eco-evolutionary change. *Trends in Ecology & Evolution* 28: 143-148.
- 24 Johansson J, **Smallegange IM**, Jonzén N. 2012. An eco-evolutionary model for demographic and phenological responses in migratory birds. *Biology* 1: 639-657.
- 23 **Smallegange IM**, Charalambous M, Thorne N. 2012. Fitness trade-offs and the maintenance of alternative male morphs in the bulb mite (*Rhizoglyphus robini*). *Journal of Evolutionary Biology* 25:972-980.
- 22 **Smallegange IM**, Coulson T. 2011. The stochastic demography of two coexisting male morphs. *Ecology* 92:755-764.
- 21 **Smallegange IM**. 2011. Complex environmental effects on the expression of alternative reproductive phenotypes in the bulb mite. *Evolutionary Ecology* 25: 857-873.
- 20 **Smallegange IM**. 2011. Effects of paternal phenotype and environmental variability on age and size at maturity in a male dimorphic mite. *Naturwissenschaften* 98: 339-346.
- 19 Godsall B, **Smallegange IM**. 2011. Assessment games in the mangrove tree-dwelling crab, *Selatium brockii* (De Man, 1887). *Crustaceana* 84: 1697-1718.
- 18 **Smallegange IM**, van der Meer J, Fiedler W. 2011. Population dynamics of three songbird species in a nestbox population in Central Europe show effects of density, climate and competitive interactions. *Ibis* 153: 806-817.
- 17 **Smallegange IM**, van der Meer J, Sabelis MW. 2010. 'Take-away' foraging spatially uncouples predator and prey-attack distributions. *Journal of Animal Ecology* 79: 769-776.
- 16 **Smallegange IM**, van der Meer J. 2010. Testing a stochastic version of the Beddington-DeAngelis functional response in foraging shore crabs. *Marine Biology* 157: 1027-1040.
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