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
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

- 2.8M£ (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)
- o **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
- o Manuscript Reviewer for >40 journals, incl. Nature, PNAS, Nature Ecol & Evol, Scientific Reports
- o Invited member of the European Science Foundation College of Expert Reviewers

Grants, Fellowships, and Awards

2023	Columbia Sponsored Award £500 (travel grant)
2023	DISCAR research consortium (12 PIs and 1 postdoc; 3 years)
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 years, € 800,000
2013	MEERVOUD Fellowship (Dutch Research Council) (PI), 4 years, € 225,000
2013	MacGillavry Fellowship (University of Amsterdam) (PI). 5 years, € 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 years, € 87,480
- 2007 **Alexander von Humboldt Fellowship** (AvH Foundation) (PI), 1 year, € 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)

- Max Planck Institute for Evolutionary Biology (D) Anja Guenther: developmental plasticity
- University of Jyväskylä (FI) 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.
- University of Amsterdam (NL) -Willem Frankenhuis: developmental plasticity.

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

- 2023 Departmental seminar Max Planck Institute for Evolutionary Biology (D)
- 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)
- 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 **Co-supervisor** of Marjolein Toorians, **PhD student** at UBC (Canada)

2019 - present	Co-supervisor of Mark Rademaker, PhD student at NIOZ (NL)
2007 – present	Supervisor of on average 6 BSs/MSc student projects per year
2020	Co-supervisor of Rula Domínguez, visiting PhD student from University of Vigo
2019 - 2023	Co-supervisor of Kim Eustache, joint doctorate PhD student at CRIOBE/UvA
2017 - 2022	Co-supervisor of Naomi Zweerus, PhD student at UvA
2017 - 2021	Supervisor of Post Doc Kathryn Stewart at UvA
2017 - 2019	Co-supervisor of Marie Curie Fellow Laura Gangoso at UvA
2015 - 2018	Supervisor of Post Doc Jacques Deere at UvA
2015 - 2022	Academic supervisor of Flor Rhebergen, PhD student at UvA
2014 - 2019	Academic supervisor of Tom van den Beuken, PhD student at UvA
2011 - 2015	Academic supervisor of Jacques Deere, PhD student at Oxford University

PhD thesis defence committees / PhD progress review panels

- 4 PhD Progress Review Panels, Newcastle University (2022 present)
- 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 Ravinthi (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

- o 2nd year BSc course 'Evolutionary Biology' (course design)
- o Corona crisis team online/onsite teaching Future Planet Studies Bachelor Sep-Dec 2020
- o MSc track 'Future Planet Ecosystem Science' at the IBED (UvA) (member of core design team)
- o 3rd year BSc course 'Evolution & Behaviour' (course design)

Lecturing and course convener

- o **Module leader and lecturer** NES2309 Evolutionary Biology (Stage 2) (2023 now)
- o **Lecturer** BIO2028 Biodiversity, Ecology & Conservation (Stage 2) (2022 now)
- o **Tutor** MST1204 Academic and Professional Skills for the Biosciences (Stage 1) (2022 2023)
- o **Lecturer** BIO2036 Molecular Evolution and Systematics (Stage 2) (2022)
- Supervisor TESLA interdisciplinary MSc minor (science, business, society); 30 EC (2021 2022)
- o **Lecturer** Psychobiology Year 2 Review; 6 EC BSc course (2019 2022)
- o **Convener and lecturer** 'Toekomstperspectief voor de Aarde'; 6 EC BSc course (2017 2022)
- o Lecturer Grand Challenges of Human-Ecosphere Interactions; 6 EC MSc course (2017 2022)
- o Lecturer Current Trends in Ecology & Evolution; 6 EC MSc course; (2014 2022)
- o Convener and lecturer Evolution & Behaviour; 12 EC BSc course; (2015 2020)
- o Lecturer Integral Projection Models; 2 EC PhD/PD Course @ Transmitting Science (2017)
- o Lecturer 'Regulering van Vorm en Functie van Dieren'; BSc course (2015 2018)
- o Lecturer Evolutiebiologie Theorie; BSc course; University of Amsterdam (2003-2008; 2014)
- o Convener and lecturer Behavioural Ecology; MSc course; Imperial College (2012)
- o **Tutor** Tutorials; BSc course; Imperial College London (2010)
- o **Lecturer** Demography and Management; MSc course; Imperial College London (2009)

Mentoring

o **British Ecological Society Mentor** for returners to academia after a career break.

o **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 (Newcastle University)
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 <u>PCI Zoology</u>
2018 - present	Associate Editor for Functional Ecology
2013 – present	Subject Editor for Oikos
2023	Organiser Ecosystems Science Day at Newcastle University
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

2023 – present	Member IUCN SSC Mite Specialist Group
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 position theoretical ecology

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

Impact, media coverage and outreach

Impact & media coverage

- Paper Smallegange (2022) referred to in newspaper <u>Iceland Review</u> (2022) following keynote at the International Conference on Stickleback Behaviour and Evolution.
- o *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).
- o Human Odyssey Podcast (2020) on manta ray work (Smallegange et al. 2016; 2019)
- o Stewart et al. (2018) highlighted in <u>UvA press release</u>, <u>Phys.Org</u>, <u>Aurus</u>, among others.
- Paper Smallegange et al. (2017, MEE 8:146-154) highlighted in 2018 *Methods in Ecology and Evolution* Virtual Issue <u>Integrating Ecology and Evolution</u>.
- 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

- Behind the paper blog post at <u>Springer Nature Research Communities</u> (Smallegange & Lucas 2024)
- o '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 <u>Oikos</u>, <u>Journal of Animal Ecology</u> and <u>Functional Ecology</u>,
 and contribute to the <u>Rapid Ecology</u> blog.
- o 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.
- o 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.
- o 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

- (i) invited contribution (9x); BSc, MSc and PhD students are underlined;
- * corresponding author; § shared first authorship
- **Smallegange IM**, <u>Lucas S</u>. 2024. DEBBIES Dataset to study Life Histories across Ectotherms. *Scientific Data* 11: 153.
- 59 <u>Rademaker M.</u>, van Leeuwen A, **Smallegange IM**. *accepted*. Why we should not necessarily expect life history strategies to inform on sensitivity to environmental change. *Journal of Animal Ecology*
- Eustache KB, van Loon E, Rummer J, Planes S, **Smallegange I**. 2024. Spatial and temporal analysis of juvenile blacktip reef sharks (*Carcharhinus melanopterus*) demographics identifies critical habitats. *Journal of Fish Biology* 104: 92-103.
- Deere JA, **Smallegange IM**§*. 2023. Individual differences in developmental trajectory leave a male polyphenic signature in bulb mite populations. *Peer Community Journal* 3: e117.
- 56 <u>Rhebergen FT</u>, Stewart KAS, **Smallegange IM***. 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
- **Smallegange IM**. 2022. Integrating developmental plasticity into eco-evolutionary population dynamics. *Trends in Ecology & Evolution* 37:129-137
- 53 <u>Zeeman AN</u>, **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 <u>Rademaker M</u>, **Smallegange IM**, van Leeuwen A. 2021. Causal links between North Sea fish biomass trends and seabed structure. *Marine Ecology Progress Series* 677: 129-141.
- 51 <u>Domínguez R</u>, 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
- Deere JA, <u>van den Berg I</u>, 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 (i) **Smallegange IM**, <u>Flotats Avilés M</u>, <u>Eustache K</u>. 2020. Unusually paced life history strategies of marine megafauna drive atypical sensitivities to environmental variability. *Frontiers in Marine Science* 7:597492
- 48 (i) **Smallegange IM***§, Rhebergen FT§, 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.
- **Smallegange IM**, Berg M. 2019. A functional trait approach to identifying life history patterns in stochastic environments. *Ecology and Evolution* 9: 9350-9361
- 46 <u>van den Beuken TPG</u>, <u>Stockwell L</u>, **Smallegange IM**. 2019. *Et tu*, brother? Kinship and increased nutrition lower cannibalism incidence in male bulb mites. *Animal Behaviour* 152: 45-52

- Stewart KA, <u>Draaijer R</u>, 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 <u>van den Beuken TPG</u>, <u>Duinmeijer CC</u>, **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) <u>Croll JC</u>, 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 <u>van den Beuken TPG, **Smallegange IM**</u>. 2018. Life-history consequences of bidirectional selection for male morph in a male-dimorpic bulb mite. *Experimental and Applied Acarology* 76: 435-452
- 41 <u>van den Beuken, TPG, **Smallegange IM**</u>. 2018. Life history consequences of nutritional history in a male dimorphic mite: evidence for a nuptial gift? *Evolutionary Ecology* 32: 411-425
- Stewart KA, <u>van den Beuken TPG</u>, <u>Rhebergen FT</u>, 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**, <u>Fernandes RE</u>, <u>Croll JC</u>. 2018. Population consequences of individual heterogeneity in life histories: overcompensation in response to harvesting of alternative reproductive tactics. *Oikos* 127: 738-749.
- 36 <u>Deere JA</u>, 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.
- **Smallegange IM**, Caswell H, <u>Toorians MEM</u>, 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.
- **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 <u>Deere JA</u>, 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.
- **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**, <u>Deere JA</u>. 2014. Eco-evolutionary interactions as a consequence of selection on a secondary sexual trait. *Advances in Ecological Research* 50: 145-169.
- 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.

- **Smallegange IM**, <u>Deere JA</u>, Coulson T. 2014. Correlative changes in life-history variables in response to environmental change in a model organism. *American Naturalist* 186: 784-797.
- 27 <u>Deere JA</u>, **Smallegange IM**. 2014. Does frequency-dependence determine male morph survival in the bulb mite, *Rhizoglyphus robini? Experimental and Applied Acarology* 62: 425-436.
- **Smallegange IM**, Johansson J. 2014. Life history differences favour evolution of male dimorphism in competitive games. *American Naturalist* 183: 188-198.
- **Smallegange IM**, Coulson T. 2013. Towards a general, population-level understanding of ecoevolutionary change. *Trends in Ecology & Evolution* 28: 143-148.
- Johansson J, **Smallegange IM**, Jonzén N. 2012. An eco-evolutionary model for demographic and phenological responses in migratory birds. *Biology* 1: 639-657.
- **Smallegange IM**, Charalambous M, <u>Thorne N</u>. 2012. Fitness trade-offs and the maintenance of alternative male morphs in the bulb mite (*Rhizoglyphus robini*). *Journal of Evolutionary Biology* 25:972-980.
- **Smallegange IM**, Coulson T. 2011. The stochastic demography of two coexisting male morphs. *Ecology* 92:755-764.
- **Smallegange IM**. 2011. Complex environmental effects on the expression of alternative reproductive phenotypes in the bulb mite. *Evolutionary Ecology* 25: 857-873.
- **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 <u>Godsall B</u>, **Smallegange IM**. 2011. Assessment games in the mangrove tree-dwelling crab, *Selatium brockii* (De Man, 1887). *Crustaceana* 84: 1697-1718.
- **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.
- **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.
- **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.
- **Smallegange IM**, Fiedler W, Köppen U, Geiter O, Barlein F. 2010. Tits on the move: exploring the impact of environmental change on blue tit and great tit migration distance. *Journal of Animal Ecology* 79: 350-357.
- 14 (i) **Smallegange IM**, Coulson T. 2009. Unifying ecological and evolutionary dynamics through experimental stochastic demography. *Israel Journal of Ecology and Evolution* 55: 199-205.
- Smallegange IM, <u>van Noordwijk CGE</u>, van der Meer J, van der Veer HW. 2009. Spatial distribution of shore crab *Carcinus maenas* in an intertidal environment in relation to their morphology, prey availability and competition. *Marine Ecology Progress Series* 392: 143-155.
- **Smallegange IM**, van der Meer J. 2009. The distribution of unequal predators across food patches is not necessarily (semi)truncated. *Behavioral Ecology* 20: 525-534.
- van der Meer J, **Smallegange IM**. 2009. A stochastic version of the Beddington-DeAngelis functional response: modelling interference for a finite number of predators. *Journal of Animal Ecology* 78: 134-142.

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