

Identification

Jonathan AC Roques

36, PhD Gothenburg, Sweden **2** + 46 (0)7 25 66 49 51

@ jonathan.roques@bioenv.gu.se

http://jonathanroques.com/

Work experience

Current position: Researcher, University of Gothenburg, Sweden (Since January 2021)

Research project: Mariculture technical innovations in Sweden (MARTINIS)

Laboratory: Department of Biological and Environmental Sciences, University of Gothenburg

Previous positions:

Researcher, University of Gothenburg (November 2018-December 2020)

Research project: developing Swedish circular marine aquaculture system within SWEMARC, the

Swedish mariculture research center

Laboratory: Department of Biological and Environmental Sciences, University of Gothenburg

Postdoctoral researcher, University of Gothenburg (November 2016-October 2018)
 Research project: NOMACULTURE, Finding optimal culture conditions for spotted wolffish in RAS
 Laboratory: Department of Biological and Environmental Sciences, University of Gothenburg

• Lecturer (ATER), Université de Poitiers, Poitiers (France) (Septembre 2015-August 2016)

Research project: Stress response in terrestrial isopods

Laboratory: Laboratoire Ecologie et Biologie des Interactions, UMR CNRS 7267

Doctorate

PhD (2013) from Radboud University Nijmegen, Nijmegen, The Netherlands

Title: Aspects of Fish Welfare in Aquaculture Practices

Specialty: Physiology, Biology of aquatic organisms, Behavior

Laboratory: Department of Animal Physiology, Radboud University Nijmegen

Promotor: Dr. Pr. Flik (RU Nijmegen), Dr. van de Vis and Dr. Abbink (Wageningen University & Research

Education

Year	Diploma	University	Honors
2013	PhD in Biology	Radboud University Nijmegen (NL)	-
2008	Master II Biology	Radboud University Nijmegen (NL)	-
2007	Master I FENEC (Ecology)	Université de Montpellier (FR)	With honors
2006	Bachelor in Biology of the Organisms	Université de Montpellier (FR)	With honors



Research

a) Research projects

Since 2020	AkvaCirkulär: Aquatic circular systems for sustainable food production, University of Gothenburg		
Since 2018	MARTINIS: Mariculture technical innovations in Sweden, University of Gothenburg *, #		
Since 2018	SWEMARC: Developing sustainable marine aquaculture in Sweden, University of Gothenburg		
Since 2018	MARTINIS: Mariculture technical innovations in Sweden, University of Gothenburg *		
2016-18	NOMACULTURE: Finding optimal culture conditions for wolffish in RAS, Gothenburg University		
2015-16	Stress response in terrestrial isopods, Université de Poitiers *		
2014	Impact of domestic effluent on physiology of mangrove crab, Université de Mayotte *		
2009-13	Aspects of fish welfare in aquaculture practices, Radboud University Nijmegen & IMARES *		
2012-14	Introduction and search for the optimal culture conditions of a new species to Dutch aquaculture:		
	 Fork to farm: sustainable fish farming in the Netherlands, IMARES 		
	• KINGKONG: Yellowtail kingfish quality improvement by swimming exercise, nutrition and		
	genetics, IMARES		
2011-12	Value of animal welfare, Radboud University Nijmegen & IMARES		

*Main researcher; *project coordinator

b) Scientific publications in peer-reviewed journals: 20 (8 as first author; IF: 2020)

- **Roques**, Micolucci *et al.* **(2021)** Effects of recirculating aquaculture system wastewater on anammox performance and community structure. *Processes* 9:1183. IF: 2,847
- Hjelmstedt *et al.* **(2021)** Continuous physiological welfare evaluation of European whitefish (*Coregonus lavaretus*) during common aquaculture practices leading up to slaughter. *Aquaculture* 534:736258. IF: 4,242
- **Roques** *et al.* (**2020**) Stress response in terrestrial isopods: A comparative study on glycaemia. *Applied Soil Ecology* 156: 103708. IF: 4,046
- Baudry *et al.* (**2020**) Invasion and distribution of the redclaw crayfish, *Cherax quadricarinatus*, in Martinique. *Knowledge & Management of Aquatic Ecosystems* 421:50. IF: 1,677
- Brijs et al. (2020) Prevalence and severity of cardiac abnormalities and arteriosclerosis in farmed rainbow trout (*Oncorhynchus mykiss*). Aquaculture 526:735417. IF: 4,242
- Guo *et al.* (**2020**) Effects of different feeding regimes on juvenile black rockfish (*Sebastes schlegilii*) survival, growth, digestive enzyme activity, body composition and feeding costs. *Aquaculture Research* 51:4103-4122. IF: 2,082
- Knutsen et al. (2019) Fish welfare, fast muscle cellularity, fatty acid and body-composition of juvenile spotted wolffish (Anarhichas minor) fed a combination of plant proteins and microalgae (Nannochloropsis oceanica). Aquaculture 506:212-223. IF: 4,242
- Theuerkauf et al. (2018) Salinity variation in a mangrove ecosystem: a physiological investigation to assess potential consequences of salinity disturbances on mangrove crabs. Zoological studies 57:36. IF: 2,058
- Grandjean *et al.* (**2017**) Status of *Pacifastacus leniusculus* and its role in recent crayfish plague outbreaks in France: improving distribution and crayfish plague infection patterns. *Aquatic Invasions* 12:541-549. IF: 2,170
- **Roques**, Schram *et al.* (**2015**) The impact of elevated water nitrite concentration on physiology, growth and feed intake of African catfish, *Clarias gariepinus*. *Aquaculture Research* 46:1384-1395. IF: 2,082



- Garcia et al. (2015) Ambient salinity and osmoregulation, energy metabolism and growth in juvenile yellowtail kingfish (Seriola lalandi Valenciennes 1833) in a recirculating aquaculture system. Aquaculture Research 46(11):2789-2797. IF: 2,082
- Boerrigter *et al.* (**2015**) Recovery from transportation by road of farmed European eel (*Anguilla anguilla*). *Aquaculture Research* 46:1248-1260. IF: 2,082
- Palstra et al. (2015) Forced sustained swimming exercise at optimal speed to enhance growth performance of yellowtail kingfish. Frontiers in Aquatic Physiology: Physiological adaptations to swimming in fish 5:00506. IF: 4,566
- **Roques**, Schram *et al.* (**2014**) The impact of elevated water nitrate concentration on physiology, growth and feed intake of African catfish, *Clarias gariepinus* (Burchell, 1822). *Aquaculture Research* 45:1499-1511. IF: 2,082
- **Roques**, Schram *et al.* **(2014)** The impact of elevated water ammonia and nitrate concentrations on physiology, growth and feed intake of pikeperch (*Sander lucioperca*). *Aquaculture* 420-421:95-104. IF: 4,242
- Manuel, et al. (2014) Stress in African catfish (*Clarias gariepinus*) following overland transportation. *Fish Physiology and Biochemistry* 40:33-44. IF: 2,794
- Abbink, et al. (2012) The effect of temperature and pH on the growth and physiological response of juvenile yellowtail kingfish (*Seriola lalandi*) in recirculating aquaculture systems. *Aquaculture* 330-333:130-135. IF: 4,242
- **Roques** *et al.* **(2012)** Physiological and behavioural responses to an electrical stimulus in Mozambique tilapia (*Oreochromis mossambicus*). *Fish Physiology and Biochemistry* 38:1019-28. IF: 2,794
- **Roques**, Schram, et al. (2010) The impact of elevated water ammonia concentration on physiology, growth and feed intake of African catfish (*Clarias gariepinus*). Aquaculture 306:108-115. IF: 4,242
- **Roques**, Abbink *et al.* (**2010**) Tailfin clipping, a painful procedure: Studies on Nile tilapia and common carp. *Physiology and Behavior* 101:533-540. IF: 3,244

c) Submitted manuscripts (1)

Hinchcliffe *et al.* Effects of dietary protein level on growth and health of juvenile Atlantic wolffish, *Anarhichas lupus. Submitted to the Journal of Fish Biology, 07-07-2021*

d) Book chapters (3)

- FLUORESCIENCES BIOLOGIE (Dunod editors, Paris). Biology Undergraduate (1st year) textbook, 432 pages, first edition: 10/10/2018, ISBN: 978-2-10-076515-7. *In French. Main author on*:
 - Ch. 1: Histoire des classifications: vers la classification actuelle (history of phylogeny)
 - -Ch. 11 : Génétique mendélienne et méiose (genetic)
 - -Ch. 15: Métazoaires: développement et principaux phylums (animal development & taxonomy)

e) Citations indices

	All	Since 2016
Citations	669	510
h-index	12	12
i10-index	13	13

Source: Google scholar, September 2021



f) Seminars and congresses

Seminar or congress, venue		Rank in the communication	Oral	Poster
Aquaculture Europe 2021, Madeira, PT (upcoming)	2021	4 th		х
MIRAI sustainability workshop, Karlstads, SW (upcoming, online)	2021	1 st *	х	
MIRAI sustainability workshop, Gothenburg, SW (online)	2021	1 st *	Х	
Nationella Vattenbrukskonferensen, Åhus, SW	2020	1 st *		х
Nationella Vattenbrukskonferensen, Åhus, SW	2020	2 nd		х
Nationella Vattenbrukskonferensen, Åhus, SW	2020	5 th	х	
MIRAI sustainability workshop, Stockholm, SW	2019	1 st *	х	Х
Hiroshima University, Higashi-Hiroshima, JP	2019	1 st *	х	
MIRAI sustainability workshop, Tokyo, JP	2019	1 st *	х	
Danish aquaculture day, Copenhague, DK	2019	1 st *	х	
Marine challenges blue solutions, Chalmers, Gothenburg, SW	2018	1 st *		Х
Marine challenges blue solutions, Chalmers, Gothenburg, SW	2018	2 nd *		Х
AquaAgri final conference, Stockholm, SW	2018	1 st *		Х
AquaAgri final conference, Stockholm, SW	2018	1 st *		Х
MIRAI sustainability workshop, Tokyo, JP	2018	1 st *	Х	Х
Aquaculture 2018, Qingdao, CN	2018	1 st *	Х	Х
Aquaculture 2018, Qingdao, CN	2018	2 nd	Х	Х
MIRAI sustainability workshop, Gothenburg, SW	2018	1 st *	Х	
Colloque d'écophysiologie animale (CEPA3), Strasbourg, FR	2017	1 st *		Х
Aquaculture 2015, Montpellier, FR	2015	1 st *	Х	
Aquaculture 2015, Montpellier, FR	2015	1 st *		Х
Liverpool University, Liverpool, UK, seminar	2015	1 st *	х	
SEB Prague, Prague, CZ	2015	3 rd		Х
WIOMSA 9 th symposium, Wild Coast Sun, ZA	2015	3 rd		Х
SEB Valencia, Valencia, Spain	2013	5 th		Х
Proceedings of Aqua 2012 Global Aquaculture, Prague, CZ	2012	2 nd		Х
Proceedings of Aqua 2012 Global Aquaculture, Prague, CZ	2012	6 th	Х	
IWWR PhD day, Radboud University Nijmegen, NL	2012	1 st *	х	
IMARES PhD day, Texel, NL	2012	1 st *	Х	
HSA Centenary International Symposium, Portsmouth, UK	2011	1 st *		х
HSA Centenary International Symposium, Portsmouth, UK	2011	3 rd		х
Aquaculture Europe 2011, Rhodes, GR	2011	2 nd	х	
Aquaculture Europe 2011, Rhodes, GR	2011	5 th	Х	
IWWR PhD day, Radboud University Nijmegen, NL	2010	1 st *	х	
Proceedings Aquaculture Europe 2010, Porto, PT	2010	2 nd		
NVG PhD workshop, Dalfsen, NL	2009	1 st *	Х	

^{*} Presenting author



g) Grants

Туре	Year	Financing organism	Amount	
Research grant	2021	Strategic innovation program for process industrial IT and	600,000 SEK	
		automation – PiiA, VINOVA, Stockholm		
Research grant	2020	MARTINIS, FORMAS, annual open call 2021 – Research	4,000,000 SEK	
nescaren grant		projects for early-career researchers, Stockholm		
Research grant	2020	Birgit & Birger Wåhlströms Foundation, Stockholm	40,000 SEK	
Research grant	2020	KSLA, Stockholm, Sweden	40,000 SEK	
Research grant	2020	KVVS, Gothenburg, Sweden	40,000 SEK	
Research grant	2020	Helge Axelsson Johnsons Foundation, Stockholm	70,000 SEK	
Research grant	2020	Wilhelm & Martina Lundgrens Foundation, Gothenburg	57,000 SEK	
Joint research grant	2020	JSPS, Tokyo, Japan	14,500,000 JPY*	
Joint research grant	2020	STINT, Stockholm	400,000 SEK	
Research grant	2020	AkvaCirkulär, Familjen Kamprads Foundation, Växjö	15,000,000 SEK	
Travel grant	2019	University of Gothenburg, Gothenburg	8,000 SEK	
Travel grant	2019	Knut and Alice Wallenberg Foundation, Stockholm	9,000 SEK	
Research grant	2019	Helge Axelsson Johnsons Foundation, Stockholm	80,000 SEK	
Initiation grant	2019	STINT, Stockholm	150,000 SEK	
Travel grant	2019	University of Gothenburg, Gothenburg	20,000 SEK	
Travel grant	2018	University of Gothenburg, Gothenburg	18,500 SEK	
Travel grant	2018	Knut and Alice Wallenberg Foundation, Stockholm	12,000 SEK	
Travel grant	2017	Knut and Alice Wallenberg Foundation, Stockholm	4,250 SEK	
Travel grant 20		Company of biologists, Cambridge	400 €*	

*1 €= 10,2 SEK; 1 JPY= 0,08 SEK (September 2021)

Teaching and supervision

a) Teaching hours:

Over 700 hours (since 2007), Level: Bachelor and Master, Language: English and French

b) Students supervision

20 trainees (since 2007), including 1 Post-doc, 13 Master and 6 Bachelor students