



## Identification

### Jonathan AC Roques

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## Work experience

**Current position: Researcher**, University of Gothenburg (*Since November 2018*)

**Research project:** developing Swedish circular marine aquaculture system within SWEMARC, the Swedish mariculture research center (SW)

**Laboratory:** Department of Biological and Environmental Sciences, University of Gothenburg (SW)

### Previous positions:

- **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 (SW)
- **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 (FR)

## 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. G Flik, (Radboud University Nijmegen)

**Co-promotors:** Dr. JW van de Vis and Dr. W Abbink (Wageningen IMARES UR)

## 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 2018	<b>MARTINIS:</b> Mariculture technical innovations in Sweden, University of Gothenburg (SW)*, #
Since 2018	<b>SWEMARC:</b> Developing Swedish circular marine aquaculture systems, University of Gothenburg (SW)
Since 2018	<b>MARTINIS:</b> Mariculture technical innovations in Sweden, University of Gothenburg (SW)*
2016-18	<b>NOMACULTURE:</b> Finding optimal culture conditions for wolffish in RAS, Gothenburg University (SW)
2015-16	<b>Stress response in terrestrial isopods</b> , Université de Poitiers (FR)*
2014	<b>Impact of domestic effluent on physiology of mangrove crab species</b> , Université de Mayotte (FR)*
2009-13	<b>Aspects of fish welfare in aquaculture practices</b> , Radboud University Nijmegen & IMARES (NL)*
2012-14	Introduction and search for the optimal culture conditions of a new species to Dutch aquaculture: <ul style="list-style-type: none"> <li>▸ Fork to farm: sustainable fish farming in the Netherlands, IMARES (NL)</li> <li>▸ KINGKONG: Yellowtail kingfish quality improvement by swimming exercise, nutrition and genetics, IMARES (NL)</li> </ul>
2011-12	Value of animal welfare, Radboud University Nijmegen & IMARES (NL)

\*Main researcher; #project coordinator

### b) Scientific publications in peer-reviewed journals: 17 (7 as first author; IF: 2018)

- Roques et al. (2020)** Stress response in terrestrial isopods: A comparative study on glycaemia. *Applied Soil Ecology* 156:103708. IF: 3,445
- Guo et al. (2020)** Effects of different feeding regimes on juvenile black rockfish (*Sebastes schlegelii*) survival, growth, digestive enzyme activity, body composition and feeding costs. *Aquaculture Research*, in press. IF: 1,502
- Brijs et al. (2020)** Prevalence and severity of cardiac abnormalities and arteriosclerosis in farmed rainbow trout (*Oncorhynchus mykiss*). *Aquaculture* 526:735417. IF: 3,022
- 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: 3,022
- 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: 0,885
- 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: 1,976
- Roques, E 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: 1,502

- 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: 1,502
- Boerrigter *et al.* (2015) Recovery from transportation by road of farmed European eel (*Anguilla anguilla*). *Aquaculture Research* 46:1248-1260. IF: 1,502
- 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: 6,722
- Roques, E 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: 1,502
- Roques, E 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: 3,022
- Manuel, *et al.* (2014) Stress in African catfish (*Clarias gariepinus*) following overland transportation. *Fish Physiology and Biochemistry* 40:33-44. IF: 1,729
- 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: 3,022
- 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: 1,729
- Roques, E 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: 3,022
- Roques, W Abbink *et al.* (2010) Tailfin clipping, a painful procedure: Studies on Nile tilapia and common carp. *Physiology and Behavior* 101:533-540. IF: 2,635

### c) Citations indices

	All	Since 2015
<b>Citations</b>	<b>496</b>	<b>397</b>
h-index	11	11
i10-index	11	11

Source: Google scholar, [July 2020](#)

### d) Seminars and congresses

Seminar or congress, venue	Year	Rank in the communication	Oral	Poster
Nationella Vattenbrukskonferensen, Åhus, SW	2020	1 <sup>st</sup> *		x
Nationella Vattenbrukskonferensen, Åhus, SW	2020	2 <sup>nd</sup>		x
Nationella Vattenbrukskonferensen, Åhus, SW	2020	5 <sup>th</sup>	x	
MIRAI sustainability workshop, Stockholm, SW	2019	1 <sup>st</sup> *	x	X
Hiroshima University, Higashi-Hiroshima, JP	2019	1 <sup>st</sup> *	x	
MIRAI sustainability workshop, Tokyo, JP	2019	1 <sup>st</sup> *	x	

<b>Danish aquaculture day</b> , Copenhagen, DK	2019	1 <sup>st</sup> *	x	
<b>Marine challenges blue solutions</b> , Chalmers, Gothenburg, SW	2018	1 <sup>st</sup> *		X
<b>Marine challenges blue solutions</b> , Chalmers, Gothenburg, SW	2018	2 <sup>nd</sup> *		X
<b>AquaAgri final conference</b> , Stockholm, SW	2018	1 <sup>st</sup> *		X
<b>AquaAgri final conference</b> , Stockholm, SW	2018	1 <sup>st</sup> *		X
<b>MIRAI sustainability workshop</b> , Tokyo, JP	2018	1 <sup>st</sup> *	x	X
<b>Aquaculture 2018: recent advances in aquaculture research</b> , Qingdao, CN	2018	1 <sup>st</sup> *	x	X
<b>Aquaculture 2018: recent advances in aquaculture research</b> , Qingdao, CN	2018	2 <sup>nd</sup>	x	X
<b>MIRAI sustainability workshop</b> , Gothenburg, SW	2018	1 <sup>st</sup> *	x	
<b>Colloque d'écophysiologie animale (CEPA3)</b> , Strasbourg, FR	2017	1 <sup>st</sup> *		X
<b>Aquaculture 2015: Cutting Edge Science in Aquaculture</b> , Montpellier, FR	2015	1 <sup>st</sup> *	x	
<b>Aquaculture 2015: Cutting Edge Science in Aquaculture</b> , Montpellier, FR	2015	1 <sup>st</sup> *		X
<b>Liverpool University</b> , Liverpool, UK, seminar	2015	1 <sup>st</sup> *	x	
<b>SEB Prague</b> , Prague, CZ	2015	3 <sup>rd</sup>		X
<b>Western Indian Ocean Marine Science Association (WIOMSA) 9<sup>th</sup> symposium</b> , Wild Coast Sun, ZA	2015	3 <sup>rd</sup>		X
<b>SEB Valencia</b> , Valencia, Spain	2013	5 <sup>th</sup>		X
<b>Proceedings of Aqua 2012 Global Aquaculture - securing our future</b> , Prague, CZ	2012	2 <sup>nd</sup>		X
<b>Proceedings of Aqua 2012 Global Aquaculture - securing our future</b> , Prague, CZ	2012	6 <sup>th</sup>	x	
<b>IWWR PhD day</b> , Radboud University Nijmegen, NL	2012	1 <sup>st</sup> *	x	
<b>IMARES PhD day</b> , Texel, NL	2012	1 <sup>st</sup> *	x	
<b>Humane Slaughter Association Centenary International Symposium</b> , Portsmouth, UK	2011	1 <sup>st</sup> *		x
<b>Humane Slaughter Association Centenary International Symposium</b> , Portsmouth, UK	2011	3 <sup>rd</sup>		x
<b>European Aquaculture Society, Aquaculture Europe 2011 - 'Mediterranean Aquaculture 2020'</b> , Rhodes, GR	2011	2 <sup>nd</sup>	x	
<b>European Aquaculture Society, Aquaculture Europe 2011 - 'Mediterranean Aquaculture 2020'</b> , Rhodes, GR	2011	5 <sup>th</sup>	x	
<b>IWWR PhD day</b> , Radboud University Nijmegen, NL	2010	1 <sup>st</sup> *	x	
<b>Proceedings Aquaculture Europe 2010</b> , Porto, PT	2010	2 <sup>nd</sup>		
<b>NVG PhD workshop</b> , Dalfsen, NL	2009	1 <sup>st</sup> *	x	

\* Presenting author

## e) Grants

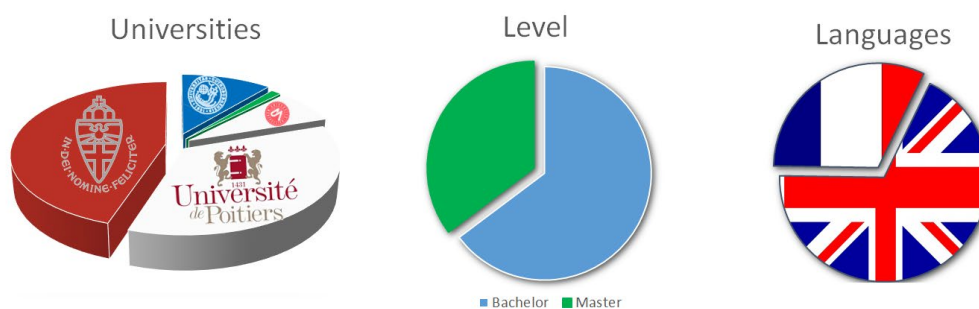
Type	Year	Financing organism	Amount
Research grant	2020	Helge Axelsson Johnsons foundation, Stockholm	70,000 SEK
Research grant	2020	Wilhelm & Martina Lundgrens foundation, Gothenburg	57,000 SEK
Joint research grant	2020	STINT, Stockholm	400,000 SEK*
Research grant	2020	Familjen Kamprads Foundation, 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	2017	Company of biologists, Cambridge	400 €

\*Provisory granted by STINT provided that the Japanese partner can co-finance by October 31<sup>st</sup> 2020

1 SEK= 0.096 € (July 2020)

## Teaching and supervision

**a) Teaching hours:** over 640 hours (since 2007), Level: Bachelor and Master, Language: English and French



**b) Students supervision:** 17 trainees (since 2007), including 1 Post-doc, 10 Master and 6 Bachelor students