

## CURRICULUM VITÆ NICOLAI KONOW, Ph.D.

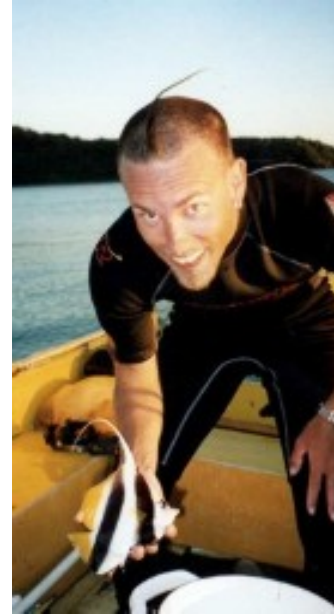
### Current appointment

NIH Postdoctoral fellow at Brown University, Roberts Lab.  
Department of Ecology and Evolutionary Biology  
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### Concurrent appointments

Research Fellow at Johns Hopkins University, German Lab.  
Department of Physical Medicine & Rehabilitation (S.O.M.),  
98 N. Broadway, Suite 409, Baltimore MD, 21231 USA

Adjunct Assistant Professor in Biology, Department of Biology,  
Hofstra University, Gittelson Hall Hempstead NY, 11549 USA



### Academic Preparation

- 09-on NIH Post-doc. Roberts Lab. Brown University, USA. *Elastic mechanisms in animal movement.*
- 08-09 NIH Post-doc. German Lab. Johns Hopkins University, USA. *Functional specialization and evolution of neuromotor control in mammalian feeding muscles.*
- 06-08 NSF Post-doc. Sanford Lab. Hofstra University, USA. *Evolutionary physiology of novel feeding mechanisms in osteoglossomorph and salmonid fishes.*
- 00-06 Ph.D. Bellwood Lab. James Cook University, Australia. *Thesis: The ecomorphology of feeding in Angelfishes, f. Pomacanthidae: functional Innovations in biting reef fishes* [[pdf](#)]
- 97-99 MSc. (Cand. Scient. Biol.). Jespersen Lab. U. Copenhagen, Denmark. *Thesis: Structural and functional specialisations in deep-sea fish retinae* [[pdf](#)]
- 92-97 BSc. Zoomorphology. Høeg Lab. U. Copenhagen, Denmark. *Thesis: Vertebrate evolution and the origin of tetrapods* (in Danish) [[pdf](#)]

### Teaching appointments

- 06-09: Assistant professor, Hofstra University: Human Anatomy and Physiology (Bio103/105, ca.120 students pr. semester); Ecology, Behaviour and Evolution (Bio 14, enrolled: 40 pr. semester); research student training (Bio 90, Bio 91, Bio 190: 12 undergraduate and 4 MSc students).
- 00-05: Adjunct Lecturer on 3<sup>rd</sup> year course MB3160 (Biology of reef fishes); covering ecomorphology of feeding in teleost fishes. James Cook University, Australia.
- 00-05: Adjunct tutoring; MB3160 (Biology of reef fishes); MB 2050 (functional zoology). James Cook University, Australia
- 99-00: Assistant Lecturer and laboratory coordinator on BSc. qualifying course in *Zoological Physiology and Morphology*, Dept. of Zoomorphology – U. Copenhagen.
- 98-99: Assistant Lecturer and laboratory coordinator on the 3<sup>rd</sup> year graduate course in *Practical Zoological Morphology*, Dept. of Zoomorphology – U. Copenhagen.
- 97-98: Teaching assistant, Dept. of Zoomorphology, University of Copenhagen DK. course in *Zoological Physiology and Morphology* (BSc. qualifying course), lecturing on vertebrate eye morphology; emphasis on ocular and retinal specializations in bird, snake and fish eyes.

## Major funding (amount where awarded, resubmission date otherwise)

- 2000: Danish National Science Foundation (DNSF) [642-00-0229], Ph.D. fellowship: 225K\$
- 2004: ARC, PGS: *Evolution of diversity in coral reef fishes*, w. L. V. Herwerden et al.(JCU): 35K\$
- 2006: Nat. Geo. [RP8153-06] *Grouper suction-feeding* w. Husky (WKU), Rhyne (RWU): 15K\$
- 2009: NIH, RO1 [DC009980-01] *Hyoid muscle function post Vagus damage*, (PI. R. Z. German): 1,5m\$
- 2010: Nat. Geo. [EC0439-10] *Fish that feed at break-neck speed*, w. Husky, WKU: 40K\$
- 2007: DNSF, postdoctoral grant [272-07-0058]: *Evolution of prey-processing* (merituous ranking)
- 2008: DNSF, postdoctoral grant [272-08-0071]: *XROMM of dynamics in 4-bar linkages* (at Brown)  
(March & Sept. 2008 submissions, both merituous ranking, 16% funding rate)
- 2009: NIH *Pig Parkinson's model* [RO1] w. German, Thexton, Crompton. (Resubmission 2010)
- 2008: NSF *Resource-specialisation in Butterflyfishes* [0850739] w. Thorrold, Berumen (WHOI), Pratchett (JCU), Raubenheimer (Massey), Ferry-Graham (MLML). (Resubmission 2010).
- In prep: *Biting Reef Fish Nutritional Physiology*, w. Ferry-Graham (MLML), Raubenheimer (Massey).

## Grants, stipends and sponsorships

2009: Brown University, Bushnell Bursary:	2.000\$
2009: Johns Hopkins University, internal travel grant:	1.000\$
2008: Hofstra University, Deans travel grant:	1.500\$
2008 Hofstra University HCLAS faculty development grant:	1.400\$
2007: Journal of Experimental Biology, SICB symposium funding:	4.075\$
2007: AD instruments, SICB symposium funding:	1.000\$
2007: Grass Technologies, SICB symposium funding:	500\$
2007: SICB, Division of Comp. Biomech. symposium funding:	500\$
2007: Hofstra University HCLAS faculty development grant:	400\$
2006: Hofstra University HCLAS faculty development grant:	500\$
2005: Graduate Research Scheme, JCU: Tearing strength in angelfishes:	1.000\$
2005: PhD Completion Scholarship, JCU:	3.000\$
2004: JCU, DRS International travel award, JCU:	1,500\$
2003: Pixoft – NAC, Movias high-speed motion analysis software:	7,000\$
2001: Sea Pro UK. UW housing for DV video:	1,500\$
2001: Australian Coral Reef Society Fellowship:	2,500\$
00-05: Annual JCU Internal Research Allowance:	9,000\$
1997: Director Einar Hansen and Wife's Scholarship:	3,750\$
1997: Clemént's Scholarship, Zoological Institute – Copenhagen:	1,000\$
1997: Prof. Johannes Schmidt's Oceanic Science Scholarship, ZMUC:	2,750\$

## Professional dissemination

Peer-reviewed publications (published, in press, accepted) *names of students I supervised in italics*:

1. Bellwood DR, van Herwerden L, Konow N (2004). Evolution and biogeography of marine angelfishes (Pisces: Pomacanthidae) *Mol. Phylogen. Evol.* 33: 140-155.
2. Konow N, Bellwood DR (2005) Prey-capture in *Pomacanthus semicirculatus* (Teleostei, Pomacanthidae): functional implications of intramandibular joints in marine angelfishes. *J Exp. Biol* 208:1421-1433.
3. Konow N, Fitzpatrick R, *Barnett A* (2006). Adult emperor angelfish (*Pomacanthus imperator*) clean giant sunfishes (*Mola mola*) at Nusa Lembongan, Indonesia. *Coral Reefs* 25: 208.
4. Konow N, Gerry S (2008). Symposium introduction: Electromyography interpretation and limitations in functional analyses of musculoskeletal function. *Integr. Comp. Biol.* 48(2):241-245.
5. Konow N, *Camp AL*, Sanford CPJ (2008). Congruent modulation-patterns in muscle activity and kinematics govern a convergently derived teleosts prey-processing behaviour. *Integr. Comp. Biol.* 48(2):246-260.
6. Konow N, Wainwright PC, Bellwood DR, Kerr AM (2008). Evolution of novel jaw joints promote trophic diversity in coral reef fishes. *Biol. J. Linn. Soc.* 93: 545-555.
7. Konow N, Sanford CPJ. (2008). Biomechanics of a convergently derived prey-processing mechanism in fishes: evidence from morphology and raking kinematics. *J. Exp. Biol.* 211, 3378-3391.
8. Konow N, Sanford, CPJ (2008). Is a convergently derived muscle-activity pattern driving novel raking behaviours in teleost fishes? *J. Exp. Biol.* 211:989-999.
9. *Camp AL*, Konow N, Sanford CPJ (2009). Functional morphospace of the tongue-bite apparatus in *Chitala ornata* (Notopteridae) and *Salvelinus fontinalis* (Salmonidae). *J. Anat.* 214, 717-728.
10. Ferry-Graham LA, Konow N. (2010). Is an intramandibular joint in *Girella* a mechanism for increased force production? *Journal of Morphology.* 271, 271-279.
11. Bellwood DR, Konow N, Herwerden L, Klanten SO (2010) Evolutionary History of Butterflyfishes (f. Chaetodontidae): the Rise of Coral Feeding Fishes. *J. Evol. Biol.* 23, 237-446
12. Konow N, Ferry-Graham LA (2010). Ecomorphology of Butterflyfishes. Chapter 2 *In: Biology of Butterflyfishes* (Eds. MS Pratchett, M Berumen, BG Kapoor). Science Publishers Inc.
13. *Gintof C*, Konow N, Ross CF, Sanford CPJ (2010). Rhythmicity in teleost chewing: a comparison with amniotes. *Journal of Experimental Biology* 213, 1868-1875
14. Konow N, German RZ, Thexton A, Crompton A (2010) Regional differences in length-change and electromyographic heterogeneity in the sternohyoid muscle during infant mammalian swallowing *Journal of Applied Physiology* doi:10.1152/jappphysiol.00353.2010
15. Konow N & Bellwood DR (Accepted pending revision). Functional Disparity and Ecological Diversification in Marine Angelfishes, f. Pomacanthidae. *Journal of Evolutionary Biology*
16. Konow N, Herrel A, *Krijestorac B*, Sanford CPJ (Accepted pending revision). A novel prey processing mechanism in the Siamese fighting fish, *Betta splendens*. *J. Comp. Physiol A.*
17. Wentzel S, Konow N, German RZ. (Accepted pending revision) Hyoid muscle activity during head movements in mammals. *J. Exp. Zool. A.* 2010-04-0051

## Professional dissemination (continued)

Publications For imminent submission, or in various stages of preparation:

- Konow N, Azizi E, Roberts TJ (95%). Rapid and high-powered energy absorption by muscle during locomotion. *Proc. Nat. Acad. Sci.*
- Konow N, Azizi E, Roberts TJ (90%). Power attenuation by tendon during rapid energy absorption in animal movement. *J. Physiol.*
- Konow N, Wainwright PC (95%). Coordination and integration of feeding kinematics: transitions from biting to suction feeding in *Genicanthus*, f. Pomacanthidae. *J. Exp. Biol.*
- Konow N, German RZ, Thexton A, Crompton AW (75%). Heterogeneous activity and length-dynamics in mammalian feeding muscles: characteristics of cortical and brainstem motor-control. *J. Appl. Phys.*
- Wahl S, Konow N, German RZ. Regional Specialization in the geniohyoid and sternohyoid during mammalian suckling. *J. Exp. Zool. A.*
- Gurevic A, Konow N, Sanford CPJ (75%). Evolution of behavioural modulation of prey-processing in osteoglossomorph fishes. *Functional Ecology*
- Konow N, Wahl S, German RZ, Thexton A, Crompton AW (50%). Heterogeneous activity, regional specialization and behavioural differentiation in mammalian hyolingual muscles. *J. of Physiology.*
- Konow N, Camp AL, Friedman M, Sanford CPJ. (50%). Evolution of a convergently derived prey-processing mechanism: raking in osteoglossomorph and salmonid fishes. *Systematic Biology.*
- Camp AL, Konow N, (50%). Functional dynamics in a cranial 4-bar linkage. *Royal Society Interface.*
- Sanford CPJ, Konow N, Luu A, Day S. (50%). Maxillary swing and pressure-generation in *Amia* suction feeding: a test using pressure-transduction and particle image velocimetry. *Royal Society Interface.*
- Riggs M, Huskey S, Rhyne A, Konow N. (50%) Ontogenetic scaling of feeding kinematics in Goliath grouper *Epinephelus itajara*. *J. Exp. Biol.*
- Gilson E, Houglund M, Huskey S, Rhyne A, Konow N. (50%) Modulation of prey-capture behavior in the Goliath grouper *Epinephelus itajara*. *J. Exp. Biol.*
- Konow N, Herrel A, German. RZ et al (25%) Evolution of vertebrate feeding muscle activity and neuromotor control. *Proc. Nat. Acad. Sci.*
- Konow N, Wainwright PC, Dornburg A, Åbom R, Santini F. (25%). Evolution of morphological diversity in butterflyfishes (f. Chaetodontidae): the origin of biting in reef fishes. *Systematic. Biology.*
- Konow N, Gintof C, Molina V, Ross CF, Sanford CPJ (in prep). Origin and evolution of proprioception in vertebrate chewing. *Current Biology.*
- Konow N, (in prep). Integrative electrophysiology; 20 years on from Loeb and Gans. *J. Exp. Zool. A.*
- Konow N, (in prep). The double-jointed vertebrate mandible: functional segregation across realms. *Trends in Ecology and Evolution.*
- Konow N, Gidmark N, Camp A, Sanford C, Brainerd E (in prep). Coupling and decoupling of four-bar mechanisms in fish feeding apparatus. *Proc. Nat. Acad. Sci.*
- Ferry-Graham LA, Konow N, Gibb AC (in prep). Intramandibular joint function in *Helostoma* feeding. Proceedings of the Karel Liem Symposium, American Society of Ichthyologists and Herpetologists.

Invited talks, conference presentations and abstracts (last three years)

- 2010 Konow N, Azizi E, Roberts TJ. *Limb muscle function during high-powered energy absorption*. American Society of Biomechanics, Providence, Aug. 18-21<sup>st</sup>.  
Konow N, Azizi E, Roberts TJ. *Limb muscle-tendon unit function in power-attenuation during rapid energy absorption*. Society of Experimental Biology, Prague, Jul. 3<sup>rd</sup>.  
University of Queensland, SBMS. *Innovation and Disparity in Comparative Anatomy*. Jan 18<sup>th</sup>  
University of Chicago, OBA. *Innovation and Disparity in Functional Biology*. Jan 14<sup>th</sup>  
German RZ, Crompton A, Konow N, Thexton A. *Sensory stimulus and reflex response in mammalian swallowing*. SICB, Seattle. Jan 7<sup>th</sup>  
Konow N, Azizi E, Roberts TJ. *Avian all-terrain: Tendons as power attenuators during rapid energy absorption*. SICB, Seattle. Jan 4<sup>th</sup>
- 2009 University of Western Kentucky. Research seminar: Innovations and disparity in functional biology  
Ohio University, College of Osteopathic Medicine, Biological/Biomedical Sciences, research seminar  
Brown University, Ecology and Evolutionary Biology: Innovations and disparity in functional biology  
Roger Williams University, Biology and Aquaculture: Innovations and disparity in functional biology  
Wahl S, Konow N, German RZ. *Regional Specialization in the geniohyoid during mammalian suckling*. University of Maryland, Baltimore MD. Aug. 10.  
German RZ, Crompton A, Konow N, Thexton A. *Rhythmic tongue movement motor pattern during swallowing*. DRS, New Orleans.  
Humbert I, Celnik P, Konow N. *Cortical swallowing delay measured using rTMS*. DRS, New Orleans.  
Gilson E, Hougland M, Huskey S, Konow N, Rhyne A. *Modulation of prey-capture behavior in goliath grouper *Epinephelus itajara**. University of Western Kentucky, research day Feb. 21  
Riggs M, Huskey S, Rhyne A, Konow N. *Scaling of feeding performance in goliath grouper *Epinephelus itajara**. University of Western Kentucky, research day Feb. 21  
Konow N, German RZ, Thexton A, Crompton A. *Muscle function in mammal swallows*. SICB, Boston.  
Camp AL, Konow N, Sanford CPJ. *Biomechanics of fish prey-processing*. SICB, Boston, Jan 3-7.  
Sanford CPJ, Konow N, Day S. *The role of maxillary swing in suction feeding*. SICB, Boston, Jan 3-7.  
Gintof C, Konow N, Sanford CPJ. *Stereotypy in teleost prey-processing*. SICB, Boston, Jan 3-7.
- 2008 University of Puerto Rico, Mayaguez. *Functional innovations in fish feeding* – invited talk Dec. 9.  
Johns Hopkins University, MD. *Functional Anatomy and Evolution* – invited talk Nov. 28.  
Brown university, RI. *Biomechanical linkages and complex kinematics* – invited talk Nov. 16.  
Camp AL, Konow N, Sanford CPJ. *Biomechanics of fish prey-processing*. DVM, Uconn. Oct. 25  
Sanford CPJ, Konow N, Day S. *Maxillary swing in suction feeding: a DPIV test*. DVM, Oct. 25  
Gintof C, Konow N, Sanford CPJ. *Stereotypy in teleost prey-processing*. DVM, Uconn. Oct. 25  
Konow N, Camp AL & Sanford CPJ. *Evolution of raking in teleosts*. ASIH, Montreal, July 24-28.  
Gintof C, Konow N, Ross CF, Sanford CPJ. *Cyclicity and Stereotypy in Teleost Chewing Compared with Tetrapods*. ASIH, Montreal, July 24-28.  
Konow N & Wainwright PC. *Planktivory in *Genicanthus* angelfishes (f. Pomacanthidae): Reversal of a functional innovation during transitions between feeding strategies?* ICRS 11, Florida, Jul 7-11.  
Konow N & Gerry S. *Symposium Introduction; interpretation and limitations of EMG in functional analyses of musculoskeletal function*. Late Breaking symposium: SICB, 2008 San Antonio TX.  
Konow N & Sanford CPJ. *Pros and cons of electromyography in an integrative experimental context*. Late Breaking symposium: EMG interpretation and limitations in functional analyses of musculoskeletal function. SICB, 2008 San Antonio TX.

- 2007 Huskey S, Konow N & Rhyne A. *Scaling of suction-performance in Epinephelus itajara: are Goliath groupers emptying caribbean reefs?* 60th Gulf and Caribbean Fisheries Institute meeting, Punta Cana, Dominican Republic. Nov 8.
- Gurevich A, Konow N, Sanford CPJ. *Evolution of a Modulated Raking Behavior in Bony-Tongued Fishes (Osteoglossomorpha; Teleostei)*. DVM, RI, Oct. 13.
- Krijestorac B, Konow N, Sanford CPJ. *Prey-processing in Siamese Fighting fish, Betta splendens: evidence of a convergently derived raking behaviour among derived percomorphs?* DVM, RI, Oct. 13.
- Camp AL, Konow N, Sanford CPJ. *Functional morphospace of the tongue-bite apparatus in Chitala ornata (Notopteridae) and Salvelinus fontinalis (Salmonidae)*. DVM, RI, Oct. 13.
- Gintof C, Konow N, Ross CF, Sanford CPJ. *Chewing in Teleost Fishes: Patterns of Stereotypy and Cyclicity Relative to Tetrapod Vertebrates*. DVM, RI, Oct. 13.
- Konow N & Sanford CPJ. *Convergent and divergent evolutionary patterns in raking, a novel salmonid and osteoglossomorph feeding behaviour* ICVM8, Paris Fr.
- Konow N, Wainwright PC, Bellwood DR, Kerr, AM. *Intramandibular joints help coral reef fishes have a bite*. ICVM8, Paris Fr.
- Konow N & Sanford CPJ. *Congruent patterns of muscle activity and kinematics in modulation of a novel feeding mechanism in fishes*. SICB, Phoenix, AZ.
- Konow N, Wainwright PC, Bellwood DR & Kerr AM. *Intramandibular joints help coral reef fishes have a bite*. SICB, Phoenix, AZ.

#### Laboratory visits and fieldwork

- Jun.-Jul. 10: National Geographic sponsored expedition, co-PI. S. Huskey. *Fish that feed at break-neck speed*
- Jun. 07-Jul. 08: National Geographic-sponsored work, with Dr. S. Huskey & Dr. A. Rhyne. *Submerged high-speed video to quantify scaling of suction feeding capability in Goliath Grouper (E. itajara)*.
- Aug. 2007: University of Antwerpen, Department of Biology, Belgium. Hosts: Dr. A. Herrel & Prof. P. Aerts: *Radiociné of hyoid motion in rainbow Oncorhynchus, Betta and small animal EMG techniques*.
- Aug. 2005: University of Hawaii - Mena, Hawaii Institute of Marine Biology, Oahu – Hawaii. Host: Dr. B. Bowen, Dr. R. Pyle & Prof. T. Tricas: *Feeding kinematics in Hawaiian chaetodontids*.
- July 2004: University of California Davis, USA. Host: Prof. P. Wainwright.: *Feeding behavioural modulation*
- Jun. 2004: Aliwal shoal, Durban - S. Africa, w. Mr. R. Jackson, ESKOM: *Modulation of prey-capture kinematics in Pomacanthus rhomboides and West Indian Ocean chaetodontoids*.
- May 2004: University of the Ryukyu's, Sesoko Marine Laboratory, Akajima Field Laboratory. Host: Dr. M. Arvedlund: *Olfactory physiology in chaetodontoid fishes*.
- Dec. 2003: R/V Undersea Explorer: Cod Hole GBR, Osprey Reef, Coral Sea: *Grouper suction-feeding*
- 2001-2003: Lizard Island and Orpheus Island Research Stations, GBR, Australia: *Microhabitat utilisation and prey-capture kinematics of chaetodontoid fishes on the GBR*. 200+ field-days .
- Sept. 2000: One Tree Island Research Station, with M. J. Marnane, Collecting chaetodontoid fishes for morphology and physiology analysis, and collecting apogonids for quantification of defecation.
- July 2000: Expeditions with R/V Harry Messel and R/V Lady Basten (A.I.M.S.) to the outer Great Barrier Reef, collecting chaetodontoid fishes using barrier nets and spear guns.
- Sept. 1997: MSc. (Cand. Scient.) Matriculated; *“Functional and comparative aspects of retinal morphology in mesopelagic deep-sea, and intertidal marine fishes”*. Material obtained from the Greenland Fisheries Board from R/V Pamiut and the IOS from R/V Challenger. Imatriculation; Dec. 1999.
- Jan.-May 97: Visiting Researcher, Dept. Anatomical Sciences, Adelaide University, Australia. Host: Dr. N. A. Locket. MSc. pilot study: *“Light and Electron microscopy of retinal morphology”*.

## Professional service and outreach

2010. National Geographic television feature on Goliath grouper research in the program *Amazing*.
2009. Steering committee: *XMA Research Coordination Network*. Brown University, Aug. 8<sup>th</sup> to 10<sup>th</sup>  
Working-Group: *FEED (The Feeding Experiments End-user Database)*. NESCent, Feb 25<sup>th</sup>–28<sup>th</sup>  
Convener of Morph-group, Dept. Ecology and Evolutionary Biology, Brown University.
2008. Research featured on the [website](#) of AD-instruments, in conjunction with my SICB symposium.  
Symposium convener: Late-breaking symposium at SICB 2008, San Antonio TX. Symposium title:  
*Electromyography interpretation and limitations in functional analyses of musculoskeletal function*.  
Commentary; *Newsday*, NY: Thresher shark and Lions Mane jellyfish invasions of Long Island waters.
2005. April: Ph.D. research featured in the BBC Wildlife Magazine [[jpg](#)]  
April: Ph.D. research featured on Australian Channel Ten's 'Totally Wild' show [[avi](#)].  
Mar: 'Inside JEB': Angelfishes take sponge reefs by storm: *J Exp Biol* 2005 208: [[pdf](#)].

*Session chairing and coordination:* Society for Integrative and Comparative Biology, Division of Comparative Physiology (2010); Division of Vertebrate Morphology 2009; American Society for Ichthyology and Herpetology 2008.

*Ad hoc referee for:* *Evolution*, *Biological Journal of the Linnean Society*, *Zoology*, *Belgian Journal of Zoology*, *Journal of Experimental Marine Biology and Ecology*, *Journal of Fish Biology*, *Aquatic Living Resources*.

*Guest Editor:* *J. Exp. Zool. A. Special issue on The Feeding Experiments End-user Database (FEED)*.

Editorial Member (Biology): *The Danish National Encyclopaedia*, Gyldendal Publishing, DK (1997-99)  
*Zoological Encyclopaedia*, Erlandsen Media Publishing, DK (1997-98).

## Professional affiliations

Society for Integrative and Comparative Biology	Society for Experimental Biology
International Society of Vertebrate Morphologists	American Association of Anatomists
American Society for Biomechanics	Society for Study of Evolution
American Society of Ichthyologists and Herpetologists	International Society for Reef Studies
American Academy of Underwater Science	Danish Natural History Society

## Ongoing collaborations

N Gidmark, B Brainerd (Brown), M Westneat (UCI): XROMM analyses of 4-bar linkages in fish feeding	
A. Thexton (Kings College), A. Crompton (Harvard): Higher vertebrate feeding muscle activity and function	
A. Herrel (MNHN, Harvard, UA):	Vertebrate motor control evolution, archerfish spitting
C. Ross (U. Chicago):	Stereotypic, cyclic and rhythmic food-processing activity
C. Sanford (Hofstra), S. Day (RIT):	Computational fluid dynamics, feeding and locomotion
P. Wainwright (UC Davis):	Functional innovations in reef fish trophic evolution
D. Bellwood, L. v. Herwerden (JCU):	Coral reef fish phylogenetics and biogeography
L. Ferry-Graham (MLML, CSU):	Biomechanical modelling of intramandibular joints
S. Huskey (WKU), & A. Rhyne (RWU):	Grouper suction feeding, scaling of ram-suction index
D. Raubenheimer (Massey), J. Choat (JCU):	Nutritional physiology and ecology in biting reef fishes
S. Thorrold, M. Berumen (WHOI):	Functional ecology and physiology of butterflyfishes

Professional and personal referees (R, research; T, teaching; B, both)

1) Prof. Christopher Sanford (B)  
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4) Prof. J. Howard Choat (R)  
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7) Prof. Ronald Sarno (T)  
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2) Prof. Elizabeth Brainerd (R)  
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5) Prof. Thomas Roberts (R)  
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8) Prof. David R. Bellwood (B)  
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3) Prof. Peter C. Wainwright (R)  
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6) Prof. Rebecca German (R)  
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9) Prof. Jens T. Hoeg (B)  
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