

Barcode Bulletin

Reader's Digest

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The Barcode Bulletin Reader's Digest is an electronic newsletter that collates up to date information on new publications in this field, sorted by the main topics of interest. All citations in the pdf are hyperlinked, allowing easy access to the full article on the publishers website. With this issue we will switch to a bimonthly mode of publishing. This will provide you with more or less equally sized issues (6 per year).

Pest control and invasive species detection

Jiang F, Li ZH, Deng YL, Wu JJ, Liu RS, Buahom N (2013)

Rapid diagnosis of the economically important fruit fly, *Bactrocera correcta* (Diptera: Tephritidae) based on a species-specific barcoding cytochrome oxidase I marker. *Bulletin of Entomological Research* **online early**.

Conservation

Thompson KF, Millar CD, Scott Baker C, Dalebout M, Steel D, van Helden AL, Constantine R (2013)

A novel conservation approach provides insights into the management of rare cetaceans.

Biological Conservation **157**: 331-340.

Health

Alcántar-Escalera FJ, García-Varela M, Vázquez-Domínguez E, Pérez-Ponce de León G (2013)

Using DNA barcoding to link cystacanths and adults of the acanthocephalan *Polymorphus brevis* in central Mexico. *Molecular Ecology Resources* **online early**.

Eurlings MCM, Lens F, Pakusza C, Peelen T, Wieringa JJ, Gravendeel B (2013)

Forensic Identification of Indian Snakeroot (*Rauvolfia serpentina* Benth. ex Kurz) Using DNA Barcoding.

Journal of Forensic Sciences **online early**.

Hou DY, Song JY, Yao H, Han JP, Pang XH, Shi LC, Wang XC, Chen SL (2013)

Molecular identification of Corni Fructus and its adulterants by ITS/ITS2 sequences. *Chinese Journal of Natural Medicines* **11**: 121-127.

Keskin E, Atar HH (2012)

Molecular identification of fish species from surimi-based products labeled as Alaskan pollock. *Journal of Applied Ichthyology* **28**: 811-814.

Lawton SP, Majoros G (2013)

A foreign invader or a reclusive native? DNA bar coding reveals a distinct European lineage of the zoonotic parasite *Schistosoma turkestanicum* (syn. *Orientobilharzia turkestanicum* ()). *Infection, Genetics and Evolution* **14**: 186-193

López-Caballero J, Oceguera-Figueroa A, León-Règagnon V (2013)

Detection of multiple species of human *Paragonimus* from Mexico using morphological data and molecular barcodes. *Molecular Ecology Resources* **online early**.

Lv J, Wu S, Zhang Y, Zhang T, Feng C, Jia G, Lin X (2013)

Development of a DNA barcoding system for the Ixodida (Acari: Ixodida). Mitochondrial DNA **online early**.

Forensics

Rolo EA, Oliveira AR, Dourado CG, Farinha A, Rebelo MT, Dias D (2013)

Identification of sarcosaprophagous Diptera species through DNA barcoding in wildlife forensics. *Forensic Science International* **228**: 160-164.

Discovery

Glowska E, Dragun-Damian A, Dabert J (2013)

DNA-barcoding contradicts morphology in quill mite species *Torotroglia merulae* and *T. rubeculi* (Prostigmata: Syringophilidae). *Folia Parasitologica (Praha)* **60**: 51-60.

Hertz A, Lotzkat S, Kohler G (2013)

A new species of *Bolitoglossa* (Caudata, Plethodontidae) from the continental divide of western Panama. *Zootaxa* **3636**: 463-475.

Hsu T-H, Ning Y, Gwo J-C, Zeng Z-N (2013)

DNA barcoding reveals cryptic diversity in the peanut worm *Sipunculus nudus*. *Molecular Ecology Resources* online early.

James ER, Okamoto N, Burki F, Scheffrahn RH, Keeling PJ (2013)

Cthulhu macrofasciculumque n. g., n. sp. and *Cthylla microfasciculumque* n. g., n. sp., a newly identified lineage of parabasalian termite symbionts. *PLoS ONE* **8**: e58509.

Jorger K, Norenburg J, Wilson N, Schrodil M (2012)

Barcode against a paradox? Combined molecular species delineations reveal multiple cryptic lineages in elusive meiofaunal sea slugs. *BMC Evolutionary Biology* **12**: 245.

Keshavmurthy S, Yang S-Y, Alamaru A, Chuang Y-Y, Pichon M, Obura D, Fontana S, De Palmas S, Stefani F, Benzoni F, MacDonald A, Noreen AME, Chen C, Wallace CC, Pillay RM, Denis V, Amri AY, Reimer JD, Mezaki T, Sheppard C, Loya Y, Abelson A, Mohammed MS, Baker AC, Mostafavi PG, Suharsono BA, Chen CA (2013) DNA barcoding reveals the coral “laboratory-rat”, *Stylophora pistillata* encompasses multiple identities. *Science Reports* **3**.

Matheny PB, Norvell LL, Giles EC (2013)

A common new species of *Inocybe* in the Pacific Northwest with a diagnostic PDAB reaction. *Mycologia* **105**: 436-446.

Riedel A, Sagata K, Surbakti S, Tänzler R, Balke M (2013)

One hundred and one new species of *Trigonopterus* weevils from New Guinea. *ZooKeys* **280**: 1-150.

Tai V, James ER, Perlman SJ, Keeling PJ (2013)

Single-Cell DNA Barcoding Using Sequences from the Small Subunit rRNA and Internal Transcribed Spacer Region Identifies New Species of *Trichonympha* and *Trichomitopsis* from the Hindgut of the Termite *Zootermopsis angusticollis*. *PLoS ONE* **8**: e58728.

Wang L-J, Cherng J-J, Chang Y-J, Jiang J-L (2013)

Description of *Rhinocypha taiwana* sp. nov. from Taiwan, with a preliminary molecular phylogenetic analysis of the *Rhinocypha drusilla*-group (Odonata: Chlorocyphidae). *International Journal of Odonatology* **16**: 93-107.

Library

- Achurra A, Erséus C (2013)
DNA barcoding and species delimitation: the *Stylodrilus heringianus* case (Annelida : Clitellata : Lumbriculidae). *Invertebrate Systematics* **27**: 118-128.
- Ashfaq M, Asif M, Anjum ZI, Zafar Y (2013)
Evaluating the capacity of plant DNA barcodes to discriminate species of cotton (*Gossypium*: Malvaceae). *Molecular Ecology Resources* **online early**.
- Bayer S, Schönhofer AL (2013)
Phylogenetic relationships of the spider family Psechridae inferred from molecular data, with comments on the Lycosoidea (Arachnida : Araneae). *Invertebrate Systematics* **27**: 53-80.
- Blank SM, Shinohara A, Altenhofer E (2013)
The Eurasian species of *Xyela* (Hymenoptera, Xyelidae): taxonomy, host plants and distribution. *Zootaxa* **3629**.
- Bribiesca-Contreras G, Solís-Marín FA, Laguarda-Figueras A, Zaldívar-Riverón A (2013)
Identification of echinoderms (Echinodermata) from an anchialine cave in Cozumel Island, Mexico, using DNA barcodes. *Molecular Ecology Resources* **online early**.
- Federici S, Galimberti A, Bartolucci F, Bruni I, De mattia F, Cortis P, Labra M (2013)
DNA barcoding to analyse taxonomically complex groups in plants: the case of *Thymus* (Lamiaceae). *Botanical Journal of the Linnean Society* **171**: 687-699.
- Fernández-Flores S, Fernández-Triana JL, Martínez JJ, Zaldívar-Riverón A (2013)
DNA barcoding species inventory of Microgastrinae wasps (Hymenoptera, Braconidae) from a Mexican tropical dry forest. *Molecular Ecology Resources* **online early**.
- Gwiazdowski RA, Elkinton JS, Deward JR, Sremac M (2013)
Phylogeographic Diversity of the Winter Moths *Operophtera brumata* and *O. bruceata* (Lepidoptera: Geometridae) in Europe and North America. *Annals of the Entomological Society of America* **106**: 143-151.
- Huemer P (2013)
Die Schmetterlinge Österreichs (Lepidoptera). Tiroler Landesmuseen-Betriebsgesellschaft m.b.H., Innsbruck.
- Laforest B, Winegardner A, Zaheer O, Jeffery N, Boyle E, Adamowicz S (2013)
Insights into biodiversity sampling strategies for freshwater microinvertebrate faunas through bioblitz campaigns and DNA barcoding. *BMC Ecology* **13**: 13.
- Lee MY, Munroe TA, Shao KT (2013)
Syphurus orientalis (Bleeker) redefined based on morphological and molecular characters (Pleuronectiformes: Cynoglossidae). *Zootaxa* **3620**: 379-403.
- Linse K, Jackson JA, Fitzcharles E, Sands CJ, Buckeridge JS (2013)
Phylogenetic position of Antarctic Scalpelliformes (Crustacea: Cirripedia: Thoracica). *Deep Sea Research Part I: Oceanographic Research Papers* **73**: 99-116.

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- Lis B, Lis JA, Ziaja DJ (2013)
Identification of the nymphal stages of two European seed bugs, *L. equestris* and *L. simulans* (Hemiptera: Heteroptera: Lygaeidae), using DNA barcodes. *Zootaxa* **3608**: 147-150.
- Ma M-y, Yan Y, Wang Y-w, Li J, Cai Y-s, Li J-l (2012)
A Study of DNA Barcoding on 32 Species of Bird in China. *Sichuan Journal of Zoology* **31**: 729-733.
- Maranan FS, Diaz MGQ (2013)
Molecular Diversity and DNA Barcode Identification of Selected Philippine Endemic *Hoya* Species (Apocynaceae). *Philippine Agricultural Scientist* **96**: 86-92.
- Martin BT, Bernstein NP, Birkhead RD, Koukl JF, Mussmann SM, Placyk Jr JS (2013)
Sequence-based molecular phylogenetics and phylogeography of the American box turtles (*Terrapene* spp.) with support from DNA barcoding. *Molecular Phylogenetics and Evolution* **online early**.
- Muchlisin ZA, Thomy Z, Fadli N, Sarong MA, Siti-Azizah MN (2013) .
DNA Barcoding of Freshwater Fishes from Lake Laut Tawar, Aceh Province, Indonesia. *Acta Ichthyologica Et Piscatoria* **43**: 21-29.
- Osmundson TW, Robert VA, Schoch CL, Baker LJ, Smith A, Robich G, Mizan L, Garbelotto MM (2013)
Filling Gaps in Biodiversity Knowledge for Macrofungi: Contributions and Assessment of an Herbarium Collection .
DNA Barcode Sequencing Project. *PLoS ONE* **8**: e62419.
- Parmentier I, Duminil J, Kuzmina M, Philippe M, Thomas DW, Kenfack D, Chuyong GB, Cruaud C, Hardy OJ (2013)
How Effective Are DNA Barcodes in the Identification of African Rainforest Trees? *PLoS ONE* **8**: e54921.
- Pereira L, Hanner R, Foresti F, Oliveira C (2013)
Can DNA barcoding accurately discriminate megadiverse Neotropical freshwater fish fauna? *BMC Genetics* **14**: 20.
- Pohjoismaki J, Kahanpaa J, Mutanen M (2013)
DNA barcodes for north European Tachinidae: preliminary results and material request. *Tachinid Times* **26**: 17-19.
- Prévot V, Jordae K, Sonet G, Backeljau T (2013)
Exploring Species Level Taxonomy and Species Delimitation Methods in the Facultatively Self-Fertilizing Land Snail Genus *Rumina* (Gastropoda: Pulmonata). *PLoS ONE* **8**: e60736.
- Robe LJ, Cenzi de Re F, Ludwig A, Loreto EL (2013)
The *Drosophila flavopilosa* species group (Diptera, Drosophilidae): An array of exciting questions. *Fly (Austin)* **7**.
- Saunders G, McDevit D (2013)
DNA barcoding unmasks overlooked diversity improving knowledge on the composition and origins of the Churchill algal flora. *BMC Ecology* **13**: 9.
- Yacoub HA, Fathi MM, Mahmoud WM (2013)
DNA barcode through cytochrome b gene information of mtDNA in native chicken strains. *Mitochondrial DNA* **online early**.

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Young MK, McKelvey KS, Pilgrim KL, Schwartz MK (2013)

DNA barcoding at riverscape scales: assessing biodiversity among fishes of the genus *Cottus* (Teleostei) in northern Rocky Mountain streams. *Molecular Ecology Resources* **online early**.

Methods

Deagle BE, Thomas AC, Shaffer AK, Trites AW, Jarman SN (2013)

Quantifying sequence proportions in a DNA-based diet study using Ion Torrent amplicon sequencing: which counts count? *Molecular Ecology Resources* **online early**.

Durgante FM, Higuchi N, Almeida A, Vicentini A (2013)

Species Spectral Signature: Discriminating closely related plant species in the Amazon with Near-Infrared Leaf-Spectroscopy. *Forest Ecology and Management* **291**: 240-248.

Han J, Zhu Y, Chen X, Liao B, Yao H, Song J, Chen S, Meng F (2013)

The Short ITS2 Sequence Serves as an Efficient Taxonomic Sequence Tag in Comparison with the Full-Length ITS. *Biomedical Research International* **2013**: 741476.

Kermarrec L, Franc A, Rimet F, Chaumeil P, Humbert JF, Bouchez A (2013)

Next-generation sequencing to inventory taxonomic diversity in eukaryotic communities: a test for freshwater diatoms. *Molecular Ecology Resources* **online early**.

Newmaster SG, Ragupathy S, Dhivya S, Jijo CJ, Sathishkumar R, Patel K (2013)

Genomic valorization of the fine scale classification of small millet landraces in southern India. *Genome* **56**: 123-127.

Parducci L, Matetovici I, Fontana SL, Bennett KD, Suyama Y, Haile J, Kjær KH, Larsen NK, Drouzas AD, Willerslev E (2013)

Molecular- and pollen-based vegetation analysis in lake sediments from central Scandinavia. *Molecular Ecology* **online early**.

Sasakawa K (2013)

A Novel Technique for Identifying the Instar of Field-Collected Insect Larvae. *PLoS ONE* **8**: e57836.

Shirak A, Barkai O, Lernau O, Kahanov Y, Seroussi E, Ron M (2013)

DNA Barcoding Analysis of Fish Bones from a Shipwreck found at Dor, Israel. *Israeli Journal of Aquaculture-Bamidgeh* **65**: 873-873.

Yamamoto N, Bibby K, Qian J, Hospodsky D, Rismani-Yazdi H, Nazaroff WW, Peccia J (2012)

Particle-size distributions and seasonal diversity of allergenic and pathogenic fungi in outdoor air. *ISME Journal* **6**: 1801-1811.

Zhou X, Li Y, Liu S, Yang Q, Su X, Zhou L, Tang M, Fu R, Li J, Huang Q (2013)

Ultra-deep sequencing enables high-fidelity recovery of biodiversity for bulk arthropod samples without PCR amplification. *GigaScience* **2**: 4.

Informatics

Bhargava M, Sharma A (2013)

DNA Barcoding in plants: Evolution and applications of in silico approaches and resources.

Molecular Phylogenetics and Evolution online early.

Hardisty A, Roberts D, Community TBI (2013)

A decadal view of biodiversity informatics: challenges and priorities. *BMC Ecology* **13**: 16.

Others

Delong JP, Cox NS, Cox SW, Hurst ZM, Smith JP (2013)

DNA Sequencing Reveals Patterns of Prey Selection in Migrating Sharp-Shinned Hawks. *The Condor* **115**: 40-46.

Yoo H, Eah J-Y, Kim J, Kim Y-J, Min M-S, Paek W, Lee H, Kim C-B (2013)

Retraction note: DNA barcoding Korean birds. *Molecules and Cells* **35**: 357-357.