

Preprints

Tørresen, O. K., Briec, M. S. O., Solbakken, M. H., Sørhus, E., **Nederbragt, A. J.**, Jakobsen, K. S., Meier, S., Edvardsen, R. B., & Jentoft, S. (2017). Genomic architecture of codfishes featured by expansions of innate immune genes and short tandem repeats. *BioRxiv*, 163949. <https://doi.org/10.1101/163949>

Varadharajan, S., Sandve, S. R., Tørresen, O. K., Lien, S., Vollestad, L. A., Jentoft, S., **Nederbragt, A. J.**, & Jakobsen, K. S. (2017). The grayling genome reveals selection on gene expression regulation after whole genome duplication. *BioRxiv*, 153270. <https://doi.org/10.1101/153270>

Peer-reviewed publications

Elgvin, T. O., Trier, C. N., Tørresen, O. K., Hagen, I. J., Lien, S., **Nederbragt, A. J.**, Ravinet, M., Jensen, H., & Sætre, G.-P. (2017). The genomic mosaicism of hybrid speciation. *Science Advances*, 3(6), e1602996. <https://doi.org/10.1126/sciadv.1602996>

Khelik, K., Lagesen, K., Sandve, G. K., Rognes, T., & **Nederbragt, A. J.** (2017). NucDiff: In-depth characterization and annotation of differences between two sets of DNA sequences. *BMC Bioinformatics*, 18, 338. <https://doi.org/10.1186/s12859-017-1748-z>

Rand, K. D., Grytten, I., **Nederbragt, A. J.**, Storvik, G. O., Glad, I. K., & Sandve, G. K. (2017). Coordinates and intervals in graph-based reference genomes. *BMC Bioinformatics*, 18, 263. <https://doi.org/10.1186/s12859-017-1678-9>

Simovski, B., Vodak, D., Gundersen, S., Domanska, D., Abdulrahman Azab, Holden, L., Holden, M., Grytten, I., Rand, K., Drablos, F., Johansen, M., Mora, A., Lund-Andersen, C., Fromm, B., Eskeland, R., Gabrielsen, O. S., Ferkingstad, E., Sigve Nakken, Bengtsen, M., **Nederbragt, A. J.**, Thorarensen, H. S., Akse, J. A., Glad, I., Hovig, E., & Sandve, G. K. (2017a). Gsuite HyperBrowser version2.0b. GigaScience Database.

Simovski, B., Vodák, D., Gundersen, S., Domanska, D., Azab, A., Holden, L., Holden, M., Grytten, I., Rand, K., Drabløs, F., Johansen, M., Mora, A., Lund-Andersen, C., Fromm, B., Eskeland, R., Gabrielsen, O. S., Ferkingstad, E., Nakken, S., Bengtsen, M., **Nederbragt, A. J.**, Sif Thorarensen, H., Andreas Akse, J., Glad, I., Hovig, E., & Sandve, G. K. (2017b). GSuite HyperBrowser: Integrative analysis of dataset collections across the genome and epigenome. *GigaScience*. <https://doi.org/10.1093/gigascience/gix032>

Wilson, G., Bryan, J., Cranston, K., Kitzes, J., **Nederbragt, L.**, & Teal, T. K. (2017). Good enough practices in scientific computing. *PLOS Computational Biology*, 13(6), e1005510. <https://doi.org/10.1371/journal.pcbi.1005510>

Malmstrøm, M., Matschiner, M., Tørresen, O. K., Star, B., Snipen, L. G., Hansen, T. F., Baalsrud, H. T., **Nederbragt, A. J.**, Hanel, R., Salzburger, W., Stenseth, N. C., Jakobsen, K. S., & Jentoft, S. (2016). Evolution of the immune system influences speciation rates in teleost fishes. *Nature Genetics*, 48(10), 1204–1210. <https://doi.org/10.1038/ng.3645>

Star, B., **Nederbragt, A. J.**, Jentoft, S., Grimholt, U., Malmstrøm, M., Gregers, T. F., Rounge, T. B., Paulsen, J., Solbakken, M. H., Sharma, A., Wetten, O. F., Lanzén, A., Winer, R., Knight, J., Vogel, J.-H., Aken, B., Andersen, Ø., Lagesen, K., Tooming-Klunderud, A., Edvardsen, R. B., Tina, K. G., Espelund, M., Nepal, C., Previti, C., Karlsen, B. O., Moum, T., Skage, M., Berg, P. R., Gjøs, T., Kuhl, H., Thorsen, J., Malde, K., Reinhardt, R., Du, L., Johansen, S. D., Searle, S., Lien, S., Nilsen, F., Jonassen, I., Omholt, S. W., Stenseth, N. C., & Jakobsen, K. S. (2011). The genome sequence of Atlantic cod reveals a unique immune system. *Nature*, 477(7363), 207–210. <https://doi.org/10.1038/nature10342>

Nederbragt, A. J., Loon, A. E. van, & Dictus, W. J. A. G. (2002). Expression of *Patella vulgata* Orthologs of engrailed and dpp-BMP2/4 in Adjacent Domains during Molluscan Shell Development Suggests a Conserved Compartment Boundary Mechanism. *Developmental Biology*, 246(2), 341–355. <https://doi.org/10.1006/dbio.2002.0653>

Book chapters

Tørresen, O. K., Rise, M. L., Jin, X., Star, B., MacKenzie, S., Jakobsen, K. S., **Nederbragt, A. J.**, & Jentoft, S. (2016). 3 - An improved version of the Atlantic cod genome and advancements in functional genomics: Implications for the future of cod farming. In *Genomics in Aquaculture* (pp. 45–72). San Diego: Academic Press. Retrieved from <http://www.sciencedirect.com/science/article/pii/B9780128014189000032>

Tørresen, O. K., Star, B., Jentoft, S., Jakobsen, K. S., & **Nederbragt, A. J.** (2016). 1 - The new era of genome sequencing using high-throughput sequencing technology: Generation of the first version of the Atlantic cod genome. In *Genomics in Aquaculture* (pp. 1–20). San Diego: Academic Press. Retrieved from <http://www.sciencedirect.com/science/article/pii/B9780128014189000019>

Software publications

Crusoe, M. R., Alameldin, H. F., Awad, S., Boucher, E., Caldwell, A., Cartwright, R., Charbonneau, A., Constantinides, B., Edverson, G., Fay, S., Fenton, J., Fenzl, T., Fish, J., Garcia-Gutierrez, L., Garland, P., Gluck, J., González, I., Guermond, S., Guo, J., Gupta, A., Herr, J. R., Howe, A., Hyer, A., Härpfer, A., Irber, L., Kidd, R., Lin, D., Lippi, J., Mansour, T., McA’Nulty, P., McDonald, E., Mizzi, J., Murray, K. D., Nahum, J. R., Nanlohy, K., **Nederbragt, A. J.**, Ortiz-Zuazaga, H., Ory, J., Pell, J., Pepe-Ranne, C., Russ, Z. N., Schwarz, E., Scott, C., Seaman, J., Sievert, S., Simpson, J., Skennerton, C. T., Spencer, J., Srinivasan, R., Standage, D., Stapleton, J. A., Steinman, S. R., Stein, J., Taylor, B., Trimble, W., Wiencko, H. L., Wright, M., Wyss, B., Zhang, Q., zyme, en, & Brown, C. T. (2015). The khmer software package: Enabling efficient nucleotide sequence analysis. *F1000Research*. <https://doi.org/10.12688/f1000research.6924.1>

Published lesson materials

Wilson, G., Becker, E., McKay, S., Michonneau, F., Williams, J. J., Mayes, A. C., Silva, R., (hoytpr), P., Crosby, K., **Nederbragt, L.**, NiellInfante, Psomopoulos, F. E., Gourelé, H., (gaiusjaugustus), G., dbmarchant, Emonet, R., Cock, P., Banaszkiwicz, P., Teal, T., HLindsay, Thomas, A., Hamm, C., Allen, J., Jordan, K. L., EvanWill, Belkin, M., Pipitone, J., Young, N., Tang, M., Paudel, D., synesthesiam, Mills, B., Devenyi, G. A., Carroll, I., King, T. W., & gtehennepe. (2017, November). Data carpentry wrangling genomics lesson. <https://doi.org/10.5281/zenodo.1064254>

Achterberg, H., Adams, J., Adelman, J., Allen, J., Aranda, J., Bae, S., Banaszkiwicz, P., Barmby, P., Barr, E., Beitey, D., Bekolay, T., Berghold, J., Bjørnstad, M., Blischak, J., Boissonneault, M., Bosley, C., Bostroem, A., Boughton, A., Brase, R., Brown, A., Brown, K., Cabunoc Mayes, A., Carroll, I., Chase, J., Childs, S., Choi, J., Clare, R., Clayton, S., Cock, P., Connell, M., Corvellec, M., Coudrat, T., Dale, R., Davis, M., Davis, N., Davison, A., Demichelis, R., Devenyi, G. A., Dolson, E., Dotson, D., Duchesne, L., Duckles, J., Emonet, R., Endsley, K. A., Fauchereau, N., Ford, T., Förstner, K., Gonzalez, I., Gosmann, J., Gosset, J., Gray, J., Greshake, B., Guillou, S., Haley, M., Hames, S., Hamrick, J. B., Hannon, E., Hansen, M., Hertweck, K., Hinsen, K., Hjelm, J., Hodges, T., Howard, D., Irving, D., Jackson, M., Jolly, B., Jones, N., Joyce, B., Ketcheson, D., King, W. T., Klerke, S., Ko, L., Kwong, A., Laken, B., Lapp, H., Latornell, D., Leeman, J. R., Leyder, J.-C., Ligtenberg, W., Lin, J., Lonsdale, A., Manhaes Savio, A., May, R., Mazur, D., Michonneau, F., Mills, B., Mughal, Z., **Nederbragt, L.**, Neufeld, R., O’Leary, A., Obeng, A., Ory, J., Osiecka, N., Pipitone, J., Pińska, A., Poisot, T., Pomorski, P., Raghupathy, N., Rathgeber, F., Rawls, M., Richie-Halford, A., Riley, J., Robitaille, T., Rokem, A., Roswell, M., Sadjadi, M., Sales de Andrade, E., Schmeier, S., Sheneman, L., Shiffer, A., Shkurti, A., Silva, R., Soranzo, N., Spence, E., Srinath, A., Staneva, V., Stapleton, J., Stucky, B., Taylor, C., Teal, T., Telenczuk, B., Thomas, I., Thorne, B., Torres, G., Tröndle, T., Upani, J., Vahtras, O., Helm, E. van der, Walsh, A., Walter, N., Weitzel, D., Wheeler, D., White, E., Williamson, E. P., Willmore, F., Wilson, A., Wilson, G., Xiao, X., & Zonca, A. (2017, February). Software Carpentry: Programming with Python. Retrieved from <https://zenodo.org/record/278222#.WUvbc3XytE4>

Ahmadia, A., Allen, J., Appling, A., Aubin, S., Bachant, P., Baird, D., Banaszkiwicz, P., Barmby, P., Batut, B., Bekolay, T., Belkin, M., Blischak, J., Bonsma, M., Borrelli, J., Boughton, A., Bouquin, D., Brauning, R., Brett, M., Brown, A., Cabunoc Mayes, A., Charlesworth, J., Charlton, B., Chen, D., Christensen, G., Collings, R., Corvellec, M., Davis, M., Devenyi, G. A., Dolson, E., Duchesne, L., Duckles, J., Emonet, R., Estève, L., Farsarakis, E., Fauber, B., Fouilloux, A., Förstner, K., Geiger, S., Gonzalez, I., Guarinello, M., Guillou, S., Hadwin, J., Haeni, M., Haessig, P., Hannah, N., Hansen, M., Harihareswara, S., Heilmaier, A., Heroux, M., Hertweck, K., Hilboll, A., Hinsen, K., Huang, D., Ismiraldi, Y., Jackson, M., Jacobs, C., Jarecka, D., Johnston, L. W., Jones, D., Jędrzejewski-Szmek, Z., Kelly, T., King, W. T., Kluyver, T., Konrad, B., Kuzak, M., Küderle, A., Labrie, K., Lapp, H., Latornell, D., Laufersweiler, M., LeBauer, D., Lee, K., Liffers, M., Llebot, C., Loucks, C., Ma, K., Marwaha, K., May, R., Michonneau, F., Mills, B., Mueller, A., Munk, M., Nagraj, V., **Nederbragt, L.**, Nunez-Iglesias, J., O’Brien, B., O’Leary, A., Olsson, C., Panitz, M., Pawsey, C., Pfenninger, S., Pipitone, J., Poisot, T., Prenay, P., Rice, T., Riemer, K., Rio Deiros, D., Robinson, N., Rockenberger, A., Rohl, A., Rokem, A., Sacks, B., Sarahan, M., Schmeier, S., Schmider, H., Shellito, P., Shriwise, P. C., Silva, R., Smithyman, B., Soranzo, N., Steinbach, P.,

Stevens, S., Stueker, O., Stuermer, B., Timbers, T., Traphagen, D., Tröndle, T., Walt, A. van der, Vandervalk, S., Watson, G., Weaver, B., Wheelhouse, M., White, E., Williamson, E. P., Wilson, G., Wu, S., & Zhang, Q. (2017a, February). Software Carpentry: Version Control with Git. Retrieved from <https://zenodo.org/record/278219#.WUvbgHXyE4>

Ahmadia, A., Allen, J., Banaszkiewicz, P., Becker, E., Bekolay, T., Belkin, M., Blischak, J., Boughton, A., Bray, E., Cabunoc Mayes, A., Carroll, I., Crouch, S., Davis, M., Davis, N., Devenyi, G. A., Duckles, J., Emonet, R., Fortin, F.-A., Gonzalez, I., Hamm, C., Hansen, M., Harris, R. M., Henninger, F., Hertweck, K., Hinsin, K., Hodge, A., Jackson, M., King, W. T., Kitzes, J., Koch, C., Lang, D., Liversidge, T., Michonneau, F., Mills, B., **Nederbragt, L.**, Nelson, E., O’Leary, A., Ortiz-Zuazaga, H., Patitsas, E., Pawlik, A., Perez, F., Pipitone, J., Poisot, T., Rokem, A., Silva, R., Steyn, J., Teal, T., Tröndle, T., Tweedie, F., Walt, A. van der, Vie, J.-J., Walker, J., Walsh, A., Weaver, B., White, E., Wilkerson, C., Williams, J., Williamson, E. P., Wilson, G., & Woo, K. (2017b, February). Software Carpentry: Instructor Training. Retrieved from <https://zenodo.org/record/278229#.WUvbfHXyE4>

Aldazabal Mensa, I., Alexander, H., Allen, J., Alsheikh-Hussain, A., Attali, D., Baird, D., Baltzell, A., Banaszkiewicz, P., Barmby, P., Beagrie, R., Beane, G., Bedini, A., Bekolay, T., Belikov, E., Bell, J., Bill, B., Blin, K., Blischak, J., Boardman, S., Boissonneault, M., Bonnie, J., Boughton, A., Brase, R., Brown, A., Brunson, D., Bryk, J., Buske, O., Cabunoc Mayes, A., Carlise, M., Chen, D., Chung, K., Chung, K., Deveau, D., Devenyi, G. A., Doehle, P., Dolson, E., Doyle, M., Duckles, J., Emonet, R., Eyers, D., Fernandes, F., Fontenelle, H., Gacenga, F., Gardner, P., Gidden, M., Gonzalez, I., Gray, N., Guillou, S., Hagh, V. F., Hansen, M., Harstad, E., Hohenstein, T., Howe, A., Imamoglu, F., Irving, D., Jackson, M., Jane McTavish, E., Jennings, M., Jones, D., Jones, M. A., Keener, A., Keipert, K., Kelly, T., Kim, J. T., King, W. T., Koch, C., Konrad, B., Lake, S., Lang, D., Latornell, D., Lijnzaad, P., Ma, E., Mac, A., Madin, J., Magle, T., Mandel, M., Marini, C., Marwaha, K., Mashchenko, S., McCloy, D., Michonneau, F., Middleton, R., Milhans, J., Mills, B., Miotto, A., Mount, S., **Nederbragt, L.**, Nielsen, D., Nielsen, D., Noga, K., O’Leary, A., Olson, R., Orr, A., Overgard Therkildsen, N., Palamartchouk, K., Perry, A., Peterson, M., Pipitone, J., Poisot, T., Pourreza, H., Povall, T., Richie-Halford, A., Ritchie, S., Rocha, C. B., Ross, N., Rydbeck, H., Sadjadi, M., Sanders, S., Schloss, P., Seyffert, B., Shattow, G., Silva, R., Simpkin, S., Simpson, J., Smith, B., Sobhani, A., Soranzo, N., Srinath, A., Standage, D., Staton, M., Steinbach, P., Stimberg, M., Telenczuk, B., Thoele, F., Timbers, T., Turner, S., Walt, A. van der, Schyndel, J. van, Vollmer, D., Linden, J. von der, Walker, A., Waterfall, J., Watson, G., White, E., Williamson, E. P., Willing, C., Wilson, G., Winston, D., Wolff, H., Young, L., & Zamparo, L. (2017, February). Software Carpentry: The Unix Shell. Retrieved from <https://zenodo.org/record/278226#.WUvbd3XyE4>

Allen, J., Bachant, P., Banaszkiewicz, P., Bekolay, T., Blischak, J., Boissonneault, M., Boughton, A., Cabunoc Mayes, A., Capes, G., Devenyi, G. A., Digges, D., Duckles, J., Emonet, R., Fraser, A., Hansen, M., Hertweck, K., Irber, L., Jackson, M., King, W. T., Liu, G., Michonneau, F., Mills, B., **Nederbragt, L.**, O’Leary, A., Pipitone, J., Poisot, T., Richie-Halford, A., Sherman, J., Silva, R., Smith, B., St-Onge, P.-L., Teucher, A., Williamson, E. P., & Wilson, G. (2017, February). Software Carpentry: Automation and Make. Retrieved from <https://zenodo.org/record/278220#.WUvbbXXyE4>