Liste de publications de Claire Detrain

Liste établie en fonction du **Guide du proposant FNRS Année 2025**

1. Ouvrages publiés en tant qu'auteur, co-auteur ou éditeur

1. **Detrain, C.**, Deneubourg, J.-L., & Pasteels, J. (1999). *Information processing in social insects*. Basel: Eds Birkhauser Verlag.

2. Chapitres d'ouvrages ou participation à un ouvrage collectif, en tant qu'auteur ou co-auteur de la partie

1. Blanchard, S., & **Detrain, C.** (2025). What future for ant-aphid mutualism? The impact of climate change on honeydew and aphid exploitation by ants. In I. Leal, F. L. C. Oliveira, X. Arnan, & A. Andersen (Eds.), *Ant responses to climate change: from individuals to ecosystemic services.*. Springer Verlag: Leal I, Oliveira F, Arnan X, Andersen A.(Focus in Entomology).
   https://dipot.ulb.ac.be/dspace/bitstream/2013/392248/3/BlanchardDetrainfinalsecondrevision.docx

2. Collignon, B., & **Detrain, C.** (2020). Self-organization and stigmergy. In *Encyclopedia of Social Insects*. Springer.
   https://dipot.ulb.ac.be/dspace/bitstream/2013/300617/4/Collingnon-SelfOrganization.pdf

3. **Detrain, C.**, & Deneubourg, J.-L. (2009). Social cues and adaptive foraging strategies in ants. In S. Jarau & M. Hrncir (Eds.), *Food Exploitation By Social Insects: Ecological, Behavioral, and Theoretical Approaches* (pp. 29-51). CRC Press. doi:10.1201/9781420075618

4. **Detrain, C.**, & Deneubourg, J.-L. (2009). Ethologie et Robotique: vers une gestion de précision des sociétés animales. In A. Boissy, M. H. M. Pham-Delegue, & C. Baudoin (Eds.), *Ethologie appliquée: comportements animaux et humains, questions de société* (pp. 139-148). Versailles: Éditions Quae.(Synthèses (INRA)).
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5. Deneubourg, J.-L., Halloy, J., Ame, J.-M., Rivault, C., & **Detrain, C.** (2007). Self-organised choice based on inter-attraction: the example of gregarious animals. In N. Waldau, P. Gatterman, H. Knoflacher, & M. Schrekenberg (Eds.), *Pedestrian and evacuation dynamics* (pp. 455-464). Springer Verlag.

6. Deneubourg, J.-L., Nicolis, S., & **Detrain, C.** (2005). Optimality of communication in self-organized social behaviour. In C. K. Hemelrijk (Ed.), *Self-organisation and evolution of social systems* (pp. 25-35). Cambridge: Cambridge University Pres.
   https://dipot.ulb.ac.be/dspace/bitstream/2013/93836/1/36.Deneubourg-Nicolis-Detrain-2005-Cambridge_Univ._Press.pdf

7. Deneubourg, J.-L., Millor, J., Theraulaz, G., & **Detrain, C.** (2001). Plan d'organisation et population dans les sociétés d'insectes. In I. Prigogine (Ed.), *L'homme devant l'incertain* (pp. 141-155). Paris: Odile Jacobs.(Sciences).
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8. Deneubourg, J.-L., Camazine, S., & **Detrain, C.** (1999). Self-organization or individual complexity: a false dilemna or a true complementarity. In **C. Detrain**, J.-L. Deneubourg, & J. Pasteels (Eds.), *Information processing in social insects* (pp. 401-408). Birkhauser Verlag.
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9. **Detrain, C.**, Deneubourg, J.-L., & Pasteels, J. (1999). Decision-making in foraging by social insects. In **C. Detrain**, J.-L. Deneubourg, & J. Pasteels (Eds.), *Information processing in social insects* (pp. 331-354). Basel: Birkhauser Verlag.
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10. Lachaud, J. P., Passera, L., Grimal, A., **Detrain, C.**, & Beugnon, G. (1992). Lipid storage by major workers and starvation in the ant Pheidole pallidula (Hymenoptera, Formicidae). In J. Billen (Ed.), *Biology and evolution of social insects* (pp. 153-160). Leuven, Belgium: Leuven University Press.
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11. Deneubourg, J.-L., Goss, S., Franks, N., Sendova-Franks, A., **Detrain, C.**, & Chrétien, L. (1991). The dynamics of collective sorting robot-like ants and ant-like robots. In J.-A. Meyer & S. W. Wilson (Eds.), *From animals to animats: Simulation of adaptive behavior* (pp. 356-365). Cambridge: MIT Press.(From animals to animats, 1).
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3. Articles publiés dans des journaux à comité de lecture

1. Jossart, M., Hance, T., & **Detrain, C.** (2025). Infected Connections: Unraveling the Impact of a Bacterial Symbiont on Ant-Aphid Partnership. *PloS one*, 20(6), e0326875.
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2. Nève de Mévergnies, T., Diop, S., Diakhaté, M., **Detrain, C.**, Bouvery, F., Brévault, T., & Chailleux, A. (2025). Can the African weaver ant be used as a vector of entomopathogenic fungi to bolster the biological control of tephritid fruit fly pests? *Biological control*, 202, 105722. doi:10.1016/j.biocontrol.2025.105722

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3. Vaes, O., De Selliers De Moranville, L.-A., & **Detrain, C.** (2025). Group-level trait and individual performance: the impact of in-nest activity on food recruitment in ants. *Animal behaviour*, 219, 122995.
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4. Avanzi, Q., Lisart, L., & **Detrain, C.** (2024). Social organization of necrophoresis: insights into disease risk management in ant societies. *Royal Society open science*, 11, https://doi.org/10.1098/rsos.240764, 240764.
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5. Vaes, O., Avanzi, Q., & **Detrain, C.** (2024). Beyond busy workers: exploring the sensitivity of inactive ants to environmental cues. *Insectes sociaux*, 4, https://doi.org/10.1007/s00040-024-00959-2, 1-14.
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6. Correa, P., Wäckers, F., Brévault, T., Bouvery, F., **Detrain, C.**, & Chailleux, A. (2023). Sugar feeders reduce weaver ants' drawbacks when used as biological control agents in mango orchards. *Biological control*, 177, 105103. doi:10.1016/j.biocontrol.2022.105103
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7. Blanchard, S., Verheggen, F. F., Van De Vreken, I., Richel, A., & **Detrain, C.** (2022). Combined Elevation of Temperature and CO2 Impacts the Production and Sugar Composition of Aphid Honeydew. *Journal of chemical ecology*, 48(9-10), 772-781. doi:10.1007/s10886-022-01385-z
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8. Vaes, O., & **Detrain, C.** (2022). Colony specificity and starvation-driven changes in activity patterns of the red ant Myrmica rubra. *PloS one*, 17(8 August), e0273087. doi:10.1371/journal.pone.0273087
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9. **Detrain, C.**, & Leclerc, J.-B. (2022). Spatial distancing by fungus-exposed Myrmica ants is prompted by sickness rather than contagiousness. *Journal of insect physiology*, 139, 104384. doi:10.1016/j.jinsphys.2022.104384
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10. Pereira, H., Willeput, R., & **Detrain, C.** (2021). A fungus infected environment does not alter the behaviour of foraging ants. *Scientific reports*, 11, 23573. doi:10.1038/s41598-021-02817-8
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11. Blanchard, S., Van Offelen, J., Verheggen, F. F., & **Detrain, C.** (2021). Towards more intimacy: moderate elevation of temperature drives increases in foraging and mutualistic interactions between Lasius niger and Aphis fabae. *Ecological entomology*, 46(2), 406-418.

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12. Nève de Mévergnies, T., Chailleux, A., & **Detrain, C.** (2021). The African weaver ant has no negative impact on spiders in mango orchards of Senegal. *African journal of ecology*. doi:10.1111/aje.12910
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13. Lehue, M., Collignon, B., & **Detrain, C.** (2020). Multiple nest entrances alter foraging and information transfer in ants. *Royal Society open science*.
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14. Lehue, M., & **Detrain, C.** (2020). Foraging through multiple nest holes: An impediment to collective decision-making in ants. *PloS one*, 15(7 July), e0234526. doi:10.1371/journal.pone.0234526
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15. Pereira, H., & **Detrain, C.** (2020). Prophylactic avoidance of hazardous prey by the ant host myrmica rubra. *Insects*, 11(7), 444, 1-17. doi:10.3390/insects11070444
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16. Pereira, H., & **Detrain, C.** (2020). Pathogen avoidance and prey discrimination in ants. *Royal Society open science*, 7 191705. http://dx.doi.org/10.1098/rsos.191705, http://dx.doi.org/10.1098/rsos.191705, 191705.
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17. Lehue, M., **Detrain, C.**, & Collignon, B. (2020). Nest entrances, spatial fidelity, and foraging patterns in the red ant Myrmica rubra: a field and theoretical study. *Insects*, 11(5), doi.org/10.3390/insects11050317.
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18. Vaes, O., Perna, A., & **Detrain, C.** (2020). The effect of nest topology on spatial organization and recruitment in the red ant Myrmica rubra. *The science of nature*, 107(3), 23. doi:10.1007/s00114-020-01675-0
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19. Pereira, H., Jossart, M., & **Detrain, C.** (2020). Waste management : the enhancing role of larvae. *Animal behaviour*, 168, 187-198.
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20. **Detrain, C.**, Pereira, H., & Fourcassie, V. (2019). Differential responses to chemical cues correlate with task performance in ant foragers. *Behavioral ecology and sociobiology*, 73(8), 107. doi:10.1007/s00265-019-2717-5
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21. Lehue, M., & **Detrain, C.** (2019). What is going on at the entrance? A characterisation of the social interface in ant nests. *Behavioural processes*, 62, 42-50. doi:10.1016/j.beproc.2018.12.006
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22. Bologna, A., & **Detrain, C.** (2019). Larvae promote a decline in harvesting of myrmecochorous seeds by ants. *Insectes sociaux*.
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23. Blanchard, S., Lognay, G. C., Verheggen, F. F., & **Detrain, C.** (2019). Today and tomorrow: impact of climate change on aphid biology and potential consequences on their mutualism with ants. *Physiological entomology*, 44(2), 77-86. doi:10.1111/phen.12275
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24. **Detrain, C.**, & Bologna, A. (2019). Impact of seed abundance on seed processing and dispersal by the red ant Myrmica rubra. *Ecological entomology*, 44(3), 380-388. doi:10.1111/een.12713
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25. Leclerc, J.-B., **Detrain, C.**, & Pinto Silva, J. (2018). Impact of soil contamination on growth and shape of ant nests. *Royal Society open science*, 5(7). doi:10.1098/rsos.180267
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26. Leclerc, J.-B., & **Detrain, C.** (2018). Impact of colony size on survival and sanitary strategies in fungus-infected ant colonies. *Behavioral ecology and sociobiology*, 72(1), 3. doi:10.1007/s00265-017-2415-0

27. Cohen-Rengifo, M., Aguera Garcia, A., **Detrain, C.**, Bouma, T., Dubois, P., & Flammang, P. (2018). Biomechanics and behaviour in the sea urchin Paracentrotus lividus (Lamarck, 1816) when facing gradually increasing water flows. *Journal of experimental marine biology and ecology*, 506, 61-71.
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28. Leclerc, J.-B., & **Detrain, C.** (2017). Loss of attraction for social cues leads to fungal-infected Myrmica rubra ants withdrawing from the nest. *Animal behaviour*, 129, 133-141. doi:10.1016/j.anbehav.2017.05.002
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29. Fischer, C. Y., **Detrain, C.**, Thonart, P., Haubruge, É., Francis, F., Verheggen, F. F., & Lognay, G. C. (2017). Bacteria may contribute to distant species recognition in ant–aphid mutualistic relationships. *Insect Science*, 24(2), 278-284. doi:10.1111/1744-7917.12302

30. **Detrain, C.**, Fichaux, M., & Verheggen, F. (2017). Tuned protection of aphids by ants against a predatory hoverfly. *Ecological entomology*, 42(3), 235-244. doi:10.1111/een.12378
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33. Boullis, A., **Detrain, C.**, Francis, F., & Verheggen, F. F. (2016). Will climate change affect insect pheromonal communication? *Current opinion in insect science (Online)*, 17, 87-91. doi:10.1016/j.cois.2016.08.006
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34. Leclerc, J.-B., & **Detrain, C.** (2016). Ants detect but do not discriminate diseased workers within their nest. *Naturwissenschaften*. doi:10.1007/s00114-016-1394-8
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35. Fischer, C. Y., Lognay, G. C., **Detrain, C.**, Heil, M., Grigorescu, A., Sabri, A., Thonart, P., Haubruge, É., & Verheggen, F. F. (2015). Bacteria may enhance species association in an ant–aphid mutualistic relationship. *Chemoecology*, 25(5), 223-232. doi:10.1007/s00049-015-0188-3
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38. Fischer, C. Y., Vanderplanck, M., Lognay, G. C., **Detrain, C.**, & Verheggen, F. (2015). Do aphids actively search for ant partners? *Insect Science*, 22(2), 283-288. doi:10.1111/1744-7917.12125
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39. Collignon, B., Cervantes Valdevieso, L. E., & **Detrain, C.** (2014). Group recruitment in ants: Who is willing to lead? *Behavioural processes*, 108, 98-104. doi:10.1016/j.beproc.2014.09.033
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42. Le Goff, G., Hance, T., **Detrain, C.**, Deneubourg, J.-L., & Mailleux, A.-C. (2014). Impact of living with kin/non-kin on the life history traits of Tetranychus urticae (Acari: Tetranychidae). *Experimental & applied acarology*, 63(1), 37-47. doi:10.1007/s10493-014-9783-1
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44. Diez, L., Le Borgne, H., Lejeune, P., & **Detrain, C.** (2013). Who brings out the dead? Necrophoresis in the red ant, Myrmica rubra. *Animal behaviour*, 86(6), 1259-1264. doi:10.1016/j.anbehav.2013.09.030
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45. Clotuche, G., Mailleux, A.-C., Yano, S., **Detrain, C.**, Deneubourg, J.-L., & Hance, T. (2013). Settlement decisions by the two-spotted spider mite Tetranychus urticae Sélection d'un micro-habitat chez l'acarien tisserand Tetranychus urticae. *Comptes rendus. Biologies*, 336(2), 93-101. doi:10.1016/j.crvi.2013.02.006
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49. Fourcassie, V., Schmitt, T., & **Detrain, C.** (2012). Impact of interference competition on exploration and food exploitation in the ant Lasius niger. *Psyche*, 2012, 383757, 8. doi:10.1155/2012/383757
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52. Collignon, B., Deneubourg, J.-L., & **Detrain, C.** (2012). Leader-based and self-organized communication: Modelling group-mass recruitment in ants. *Journal of theoretical biology*, 313, 79-86. doi:10.1016/j.jtbi.2012.07.025
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5. Présentations orales dans des conférences avec comité scientifique de sélection

1. Jossart, M., & **Detrain, C.** (2025). *Le rôle d'un endosymbionte facultatif sur le mutualisme puceron-fourmi.* Paper session presented at colloque SFECA (May 2023: Tours).

2. Willeput, R., & **Detrain, C.** (2024). *Susceptibility to fungal infection and constitutive defences in the ant Lasius flavus.* Paper session presented at European Congress of IUSSI (7-11 July: Lausanne (Switzerland).).

3. **Detrain, C.**, & Blanchard, S. (2024). *Deciphering the effects of temperature increase on ant-aphid mutualism.* Paper session presented at European Congress of IUSSI . (7-11 July: Lausanne (Switzerland)).

4. Jossart, M., Hance, T., & **Detrain, C.** (2024). *Impact of a facultative endosymbiont on aphid-ant mutualistic interactions. European Congress of IUSSI, 7-11 July, Lausanne (Switzerland)*. Paper session presented at European Congress of IUSSI (7-11 July: Lausanne (Switzerland)).

5. Avanzi, Q., & **Detrain, C.** (2023). *Assessing Functional Group Contributions to Pathogen Outbreaks: Insights from Myrmica rubra*. Paper session presented at Colloque UIEIS (Toulouse).

6. Jossart, M., & **Detrain, C.** (2023). *Le rôle d'un endosymbionte facultatif sur le mutualisme puceron-fourmi*. Paper session presented at Colloque SFECA (Tours).

7. Willeput, R., & **Detrain, C.** (2023). *Phénomènes compensatoires aux défenses individuelles face à une infection fongique chez la fourmi Lasius flavus*. Paper session presented at Colloque SFECA (Tours).

8. Jossart, M., Hance, T., & **Detrain, C.** (2022). *Facultative endosymbiont in the "plant-aphid-ant" system.* Paper session presented at Benelux Congress of zoology (Kortrijk - Belgium).

9. **Detrain, C.**, Lehue, M., & Collignon, B. (2022). *The number of nest entrances is a key factor of collective foraging in ants.* Paper session presented at International congress of IUSSI (July 2022: San Diego, USA).

10. Vaes, O., & **Detrain, C.** (2022). *Colony-specific activity becomes more synchronized and decreases with starvation.* Paper session presented at International congress of IUSSI (July 2022: San Diego, USA).

11. Jossart, M., Hance, T., & **Detrain, C.** (2022). *Influence of a facultative endosymbiont on ant-aphid mutualism.* Paper session presented at International congress of IUSSI (July 2022: San Diego, USA).

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13. **Detrain, C.**, & Pereira, H. (2022). *A fungus-infected environment is more of a nuisance than a health risk for ant foragers. International congress of IUSSI, San Diego, USA, July 2022*. Paper session presented at International congress of IUSSI (July 2022: San Diego, USA).

14. Avanzi, Q., & **Detrain, C.** (2022). *Tolerance and resistance strategies against pathogens in ant colonies: the influence of global activity level.* Paper session presented at International congress of IUSSI (July 2022: San Diego, USA).

15. Jossart, M., Hance, T., & **Detrain, C.** (2022). *Facultative endosymbiont, a guest in the multitrophic system plant-aphid-ant.* Paper session presented at Colloque ELIB (May 2022: Louvain-la-Neuve).

16. **Detrain, C.**, & Vaes, O. (2022). *Impact of starvation on activity patterns in ant colonies*. Paper session presented at Royal Society meeting about “Collective behaviour thourgh time and space” (May 2022: London – UK).

17. Gardin, P., Hance, T., & **Detrain, C.** (2021). *Les relations entre les pucerons et les fourmis : du mutualisme à l’antagonisme. Dysaphis plantaginea / Lasius niger: Quelle type de symbiose?* Paper session presented at Colloque des entomophagistes- (Rennes - France).

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19. Gellhand de Merxem, B., Jossart, M., Renoz, F., **Detrain, C.**, & Hance, T. (2021). *Impact of cascading effects linked to symbionts.* Paper session presented at Colloque des entomophagistes (Rennes-France).

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21. Mouhat, H., **Detrain, C.**, & Collignon, B. (2021). *Exploration d’un reseau par les fourmis: importance des répères visuels.* Paper session presented at Colloque Annuel de la SFECA – (Marseille - France).

22. Vaes, O., Collignon, B., & **Detrain, C.** (2021). *Affamement et niveau d’activité: Quelle stratégie adopte la fourmi rouge Myrmica rubra?* Paper session presented at Colloque Annuel de la SFECA – (Marseille- France).

23. Avanzi, Q., Vaes, O., & **Detrain, C.** (2021). *Etude de la réponse individuelle aux stimuli caractéristiques de trois groups fonctionnels de la fourmi Myrmica rubra.* Paper session presented at Colloque Annuel de la SFECA – (Marseille- France).

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26. **Detrain, C.** (2019). *Influence des besoins alimentaires du couvain sur la dispersion de graines par les fourmis.* Paper session presented at Colloque annuel de la SFECA (June 2019: Lille).

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28. Pereira, H., & **Detrain, C.** (2019). *Impact de la pathogénicité du champignon Metarhizium brunneum et de la présence du couvain sur la gestion des déchets chez la fourmi Myrmica rubra*. Paper session presented at Colloque de Biologie de l'Insecte (June 2019: Albi - France).

29. **Detrain, C.** (2019). *La dispersion des graines par les fourmis : impact du couvain sur une interaction éphémère*. Paper session presented at Colloque de biologie de l'insecte (June 2019: Albi - France).

30. **Detrain, C.** (2019). *Soil contamination and digging patterns in ants*. Paper session presented at NW European meeting of IUSSI (March 2019: Institute of Science and Technology- Vienna -Austria).

31. Correa, P., Wäckers, P., Brévault, T., **Detrain, C.**, & Chailleux, A. (2019). *Manipulating the behavior of the African weaver ant, Oecophylla longinoda (Latreille), to promote biological control of mango fruit flies. SIC 2019* -. Paper session presented at Sustainable Intensification Conference (October 2019: Dakkar - Senegal).

32. Pereira, H., & **Detrain, C.** (2019). *Scavenging behaviour by ants depends on the prey infectiousness*. Paper session presented at NW European meeting of IUSSI (March 2019: IST- Vienna - Austria).

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36. Lehue, M., & **Detrain, C.** (2018). *Impact de l'addition d'une entrée sur le transfert d'information entre l'intérieur et l'extérieur du nid chez la fourmi Myrmica rubra*. Paper session presented at Colloque annuel de la SFECA (Rennes).

37. Pereira, H., & **Detrain, C.** (2018). *Scavenging behaviour by ants depends on the prey infectiousness*. Paper session presented at European Congress of Entomology (Naples).

38. Pereira, H., & **Detrain, C.** (2018). *Influence de l'état infectieux d'une proie sur la récolte de nourriture chez Myrmica rubra*. Paper session presented at Colloque annuel de la SFECA (Rennes).

39. **Detrain, C.**, & Leclerc, J.-B. (2018). *Fungus-contaminated Soil and Nesting structures in ant societies*. Paper session presented at European Congress of Entomology (Naples).

40. Collignon, B., **Detrain, C.**, & Mondada, F. (2018). *Division of labor applied to cooperative foraging by robots and ants*. Paper session presented at International Congress of IUSSI (Guaruja - Brésil).

41. Lehue, M., & **Detrain, C.** (2018). *How does the number of nest entrances influence recruitment and collective foraging in ants?* Paper session presented at International Congress of IUSSI (Guaruja - Brésil).

42. Blanchard, S., **Detrain, C.**, Lognay, G. C., & Verheggen, F. F. (2018). *Elevated C02 concentrations impact the semiochemistry of aphid honeydew without cascade effect on aphid predator*. Paper session presented at European Congress of Entomology (Naples - Italie).

43. **Detrain, C.**, & Leclerc, J.-B. (2018). *Impact of Ant Colony Size on Sanitary Strategies and Waste Management*. Paper session presented at International Congress of IUSSI (Guaruja - Brésil).

44. Blanchard, S., **Detrain, C.**, Lognay, G. C., & Verheggen, F. F. (2018). *Impact of carbon dioxide concentration on the plant-aphid-natural enemies relationship*. Paper session presented at 70th International Symposium on Crop Protection (Ghent).

45. Blanchard, S., **Detrain, C.**, Lognay, G. C., & Verheggen, F. F. (2018). *Elevated C02 concentrations impact the semiochemistry of aphid honeydew without cascade effect on aphid predator*. Paper session presented at Europena congress of entomology (July 2018: Naples).

46. Lehue, M., & **Detrain, C.** (2018). *How does the number of nest entrances influence recruitment and collective foraging in ants?* Paper session presented at International Congress of IUSSI (August 2018: Guaruja – Brésil).

47. **Detrain, C.**, & Leclerc, J.-B. (2018). *Impact of Ant Colony Size on Sanitary Strategies and Waste Management*. Paper session presented at International Congress of IUSSI (August 2018: Guaruja - Brazil).

48. **Detrain, C.**, & Leclerc, J.-B. (2018). *Fungus-contaminated Soil and Nesting structures in ant societies*. Paper session presented at European Congress of Entomology (July 2018: Naples).

49. Pereira, H., & **Detrain, C.** (2018). *Scavenging behaviour by ants depends on the prey infectiousness*. Paper session presented at European Congress of Entomology (July 2018: Naples).

50. Lehue, M., & **Detrain, C.** (2018). *Impact de l'addition d'une entrée sur le transfert d'information entre l'intérieur et l'extérieur du nid chez la fourmi Myrmica rubra*. Paper session presented at colloque de la SFECA (Juin 2018: Rennes).

51. Vaes, O., & **Detrain, C.** (2018). *Influence de la topologie du nid sur l'organisation spatiale de la fourmilière*. Paper session presented at Colloque de la SFECA (Juin 2018: Rennes).

52. Pereira, H., & **Detrain, C.** (2018). *Influence de l'état infectieux d'une proie sur la récolte de nourriture chez Myrmica rubra*. Paper session presented at Colloque d la SFECA (Juin 2019: Rennes).

53. **Detrain, C.**, & Leclerc, J.-B. (2017). *Influence du facteur démographique sur la gestion des risques sanitaires chez la fourmi Myrmica rubra.* Paper session presented at Congrès annuel de l'UIEIS (Aout: Paris (Museum d'Histoire Naturelle)).

54. Lehue, M., & **Detrain, C.** (2017). *Influence du nombre d'entrées de la fourmilière sur l'exploration et le recrutement alimentaire chez la fourmi Myrmica rubra.* Paper session presented at Colloque annuel de l'UIEIS (Paris).

55. Collignon, B., & **Detrain, C.** (2017). *La fourmilière : un swarm de bio-senseurs*. Paper session presented at colloque annuel de l'UIEIS (Paris).

56. Pereira, H., Fourcassié, V., & **Detrain, C.** (2017). *Profils comportementaux et spécialisation fonctionnelle lors de l'exploitation de ressources alimentaires chez la fourmi Lasius niger.* Paper session presented at Colloque annuel de la SFECA (Gif-sur Yvette).

57. Collignon, B., **Detrain, C.**, & Mondada, F. (2017). *The ant colony: a swarm of biosensors*. Paper session presented at Behaviour (International conference of Ethology) (Estoril).

58. **Detrain, C.**, & Leclerc, J.-B. (2017). *Prophylaxis through reduced mobility and loss of attraction for social cues in ants*. Paper session presented at Behaviour (International conference of Ethology) (Estoril).

59. Lehue, M., & **Detrain, C.** (2017). *Influence de l'interface entre le nid et l'environnement sur l'exploitation de ressources alimentaires chez la fourmi Myrmica rubra*. Paper session presented at Colloque annuel de la SFECA (Gif-sur Yvette).

60. Lehue, M., & **Detrain, C.** (2017). *What's going on at the entrance? Influence of the number of nest entrances on the foraging behaviour of ant workers.* Paper session presented at Behaviour (International conference of Ethology) (Estoril).

61. **Detrain, C.**, & Leclerc, J.-B. (2016). *Isolation of fungus-infected ants: a spontaneous or a nestmate-driven behavior?* Paper session presented at European Conference of IUSSI (Helsinki (Finland)).

62. **Detrain, C.**, & Bologna, A. (2016). *La récolte et la dispersion de graines myrmécochores par les fourmis: une interaction éphémère ?* Paper session presented at SFECA (Caen).

63. Leclerc, J.-B., & **Detrain, C.** (2016). *Influence du facteur démographique sur la gestion des risques sanitaires chez la fourmi Myrmica rubra*. Paper session presented at SFECA (Caen).

64. Lehue, M., & **Detrain, C.** (2016). *Influence de l'interface entre le nid et l'environnement sur les flux d'ouvrières chez Myrmica rubra*. Paper session presented at SFECA (Caen).

65. **Detrain, C.**, & Diez, L. (2015). *Prophylaxie sociale au sein de la fourmilière*. Paper session presented at Colloque SFECA (Strasbourg).

66. **Detrain, C.**, De Braekeleer, A., & Verheggen, F. F. (2015). *Stratégies défensives des fourmis récolteuses de miellat Lasius niger face aux syrphes aphidiphages, Episyrphus balteatus*. Paper session presented at Colloque annuel UIEIS (septembre: Tours).

67. **Detrain, C.**, & Diez, L. (2015). *Nécrophorèse et hygiène sociale chez la fourmi Myrmica rubra*. Paper session presented at Colloque annuel IUSSI (Septembre: Tours).

68. **Detrain, C.**, De Braekeleer, A., & Verheggen, F. F. (2015). *Defensive Strategies of Lasius niger aphid-tending ants faced with Episyrphus balteatus hoverflies*. Paper session presented at International entomophagous insects conference (Octobre: Torre del Mar (Espagne)).

69. Leclerc, J.-B., & **Detrain, C.** (2015). *Influence du facteur démographique sur la gestion des risques sanitaires chez la fourmi Myrmica rubra*. Paper session presented at Colloque annuel IUSSI (Septembre: Tours).

70. Bologna, A., & **Detrain, C.** (2014). *Extinction of ants' feeding and social foraging on myrmecochorous seeds*. Paper session presented at International Congress of IUSSI (July 2014: Cairns).

71. **Detrain, C.** (2014). *Adaptive foraging strategies and group leadership in ants.* Paper session presented at International Congress of Entomology (Octobre: Portland).

72. **Detrain, C.**, Fichaux, M., Thomas, M., & Verheggen, F. (2014). *Defensive strategies between the aphid tending ant, Lasius niger and the aphidophagous hoverfly, Episyrphus balteatus.* Paper session presented at European Congress of Entomology (August: York).

73. Leclerc, J.-B., & **Detrain, C.** (2014). *SOcial Immunity and sanitary risk management in the ant Myrmica rubra*. Paper session presented at International Congress of IUSSI (Cairns (Australia)).

74. Mailleux, A.-C., Deneubourg, J.-L., **Detrain, C.**, Lognay, G. C., & Hance, T. (2014). *Acar'up, a new trapping device for house dust mites*. Paper session presented at EAACI Congress (European academy of allergy and clinical immunology) (2014: Copenhagen).

75. Leclerc, J.-B., & **Detrain, C.** (2014). *Isolement social et évitement des pathogènes chez la fourmi Myrmica rubra*. Paper session presented at Colloque International des entomophagistes (2014: Louvain-la-Neuve).

76. **Detrain, C.**, Moquet, L., & Diez, L. (2014). *Chimie d'un comportement prophylactique: la nécrophorèse chez les fourmis.* Paper session presented at Colloque International des entomophagistes (2014: Louvain-la-Neuve).

77. Bologna, A., & **Detrain, C.** (2013). *Modulation temporelle de l'activité de récolte des fourmis M. rubra lors du processus de myrmécochorie.* Paper session presented at Colloque UIEISS (2013: Villetaneuse , France).

78. Leclerc, J.-B., & **Detrain, C.** (2013). *Isolement social sans mécanisme de détection précoce du champignon entomopathogène Metarhizium anisopliae chez Myrmica rubra*. Paper session presented at Colloque UIEISS (2013: Villetaneuse , France).

79. Bologna, A., & **Detrain, C.** (2012). *Short-term evolution of Viola odorata seed harvesting by the red ant Myrmica rubra*. Paper session presented at Belgian Congress of Zoology October 2012 (October 2012: Brussels).

80. Fischer, C. Y., Piraux, O., Lognay, G. C., Haubruge, É., **Detrain, C.**, & Verheggen, F. (2012). *Ant-aphid mutualism – Implication of honeydew microflora*. Paper session presented at International Symposium of Chemical Ecology (2012: Vilnius).

81. Fischer, C. Y., Lognay, G. C., Haubruge, É., **Detrain, C.**, & Verheggen, F. (2012). *Implication of honeydew microflora in ant-aphid mutualism?* Paper session presented at 17th Symposium on Applied and Biological Sciences (Février 2012: Leuven).

82. Verheggen, F., Leroy, P., Fischer, C. Y., Sabri, A., Francis, F., Thonart, P., **Detrain, C.**, Lognay, G. C., & Haubruge, É. (2012). *Microorganisms from aphid honeydew attract natural enemies and tending ants*. Paper session presented at Gordon Research Conferences on Plant Volatiles (USA).

83. **Detrain, C.**, Fischer, C. Y., Lognay, G. C., Diez, L., Haubruge, É., Prieur, J., & Verheggen, F. (2012). *Choosing an aphid partner: a matter of taste and smell*. Paper session presented at European Congress of IUSSI (August 2012: Montecatini (Italy)).

84. Fischer, C. Y., Patris, G., Duriaux, A., Sablon, L., Sautot, L., Haubruge, É., **Detrain, C.**, Verheggen, F., & Lognay, G. C. (2011). *Ant-aphid mutualism: A question of microorganisms ?* Paper session presented at International Symposium on Chemical Ecology (11th: 7-9 September 2011: Greenwich University).

85. **Detrain, C.**, & Prieur, J.-M. (2011). *Préférences alimentaires chez la fourmi Lasius niger: une question de goût et d'énergie*. Paper session presented at Colloque UIEIS (2011: Banyul sur Mer).

86. **Detrain, C.**, & Collignon, B. (2011). *Ant density and foraging patterns in ant societies*. Paper session presented at Workshop: Insect self-organization and swarming (Mars 2011: Mathematical Biosciences Institute – Ohio State University – Columbus – USA).

87. Verheggen, F., Leroy, P., Fischer, C. Y., Sabri, A., Francis, F., Heuskin, L., Thonart, P., Felton, R., **Detrain, C.**, Lognay, G. C., & Haubruge, É. (2011). *Microorganisms from aphid honeydew attract tending ants and natural enemies*. Paper session presented at Symposium on Chemical Ecology (2011: Vancouver).

88. Sablon, L., Fischer, C., Leroy, P., **Detrain, C.**, Haubruge, É., & Verheggen, F. (2011). *Ant-aphid mutualism: impact of aphid semiochemicals on the foraging behaviour of ants*. Paper session presented at Global Congress of Entomology (Mars 2010: Chiang Mai Thailand).

89. Diez, L., Lebrogne, H., & **Detrain, C.** (2011). *Corpse-carrying behaviour and task specialisation in Myrmica rubra nests*. Paper session presented at Workshop « Ecology and Behaviour » (Mai 2011: Rennes, France).

90. Diez, L., & **Detrain, C.** (2011). *Où construit-on le cimetière?: Choix des zones de rejet de cadavres par la fourmi Myrmica rubra*. Paper session presented at Colloque UIEIS (2011: Banyuls sur mer, France).

91. **Detrain, C.** (2010). *Complex foraging patterns in ants: key role of workers' density and social context*. Paper session presented at IUSSI Congress (16: Copenhagen,Denmark).

92. Le Goff, G., Mailleux, A.-C., **Detrain, C.**, & Deneubourg, J.-L. (2010). *Cooperation mechanisms in the two-spotted mite, Tetranychus urticae*. Paper session presented at IIIrd meeting in Ecology and Behaviour (3: Toulouse).

93. Diez, L., Lejeune, P., & **Detrain, C.** (2010). *Dynamique spatiale de rejet des déchets au sein des fourmilières de l'espèc Myrmica rubra*. Paper session presented at Conférence internationale des entomologistes Francophones (2010: Louvain-La-Neuve).

94. **Detrain, C.**, & Servigne, P. (2010). *Myrmécochorie: spécificité de la dynamique de prise de graines par les fourmis Lasius niger et Myrmica rubra*. Paper session presented at Conférence internationale des entomologistes Francophones (Louvain-la Neuve).

95. **Detrain, C.**, Diez, L., Haubruge, É., Prieur, J.-M., & Verheggen, F. (2010). *Influence de la nature des sucres sur la récolte et le recrutement chez la fourmi Lasius niger.* Paper session presented at Conférence internationale des entomologistes Francophones (2010: Louvain-La-Neuve).

96. Clotuche, G., Mailleux, A.-C., Deneubourg, J.-L., **Detrain, C.**, Navajas, M., & Hance, T. (2010). *Ballooning behaviour in the spider mite Tetranychus urticae Koch*. Paper session presented at International Congress of acarology (13: Recife, Brésil).

97. Collignon, B., Deneubourg, J.-L., & **Detrain, C.** (2010). *Comportements complexes d'exploitation d'une ressource par les fourmis*. Paper session presented at Conférence internationale des entomologistes Francophones (Louvain-La-Neuve).

98. Collignon, B., Deneubourg, J.-L., & **Detrain, C.** (2010). *Theoretical study of food recruitments in ants: a generalized model*. Paper session presented at IUSSI Congress (16: Aout 2010: Copenhagen,Denmark).

99. Diez, L., **Detrain, C.**, Wathelet, B., Haubruge, É., & Verheggen, F. (2010). *The chemical cement of mutualism between ants (Lasius niger) and aphids (Aphis fabae)*. Paper session presented at Symposium on Chemical Entomogy (May 2010: Gembloux).

100. Le Goff, G., Mailleux, A.-C., **Detrain, C.**, Deneubourg, J.-L., Clotuche, G., Astudillo Fernandez, A., & Hance, T. (2010). *Aggregation behaviour and genetic diversity in the*

two-spotted spider mite Tetranychus urticae. Paper session presented at International Congress of acarology (13th: 23/08/2010: Recife, Brésil).

101. Diez, L., Lejeune, P., & **Detrain, C.** (2010). *Ants' survival and waste management in Myrmica rubra nests*. Paper session presented at IUSSI Congress (16th: Aout 2010: Copenhagen, Denmark).

102. Le Goff, G., Mailleux, A.-C., **Detrain, C.**, Deneubourg, J.-L., Clotuche, G., Astudillo Fernandez, A., & Hance, T. (2010). *Spatial and Social behaviour of two mite species: Tetranychus urticae and Dermatophagoides pteronyssimus*. Paper session presented at International Congress of acarology (13: 23/08/2010: Recife, Brésil).

103. Diez, L., Lejeune, P., Deneubourg, J.-L., & **Detrain, C.** (2010). *Spatio-temporal patterns of preys and wastes moved by ants within the nest*. Paper session presented at Self-organization pattersn in nature : from molecules to humans (Septembre 2010: Madrid, Espagne).

104. Collignon, B., Cervantes Valdevieso, L. E., & **Detrain, C.** (2010). *Behavioral analysis of leaders during group recruitment in the ant Tetramorium caespitum.* Paper session presented at Belgian Congress of Zoology (October 2010: Ghent, Belgium).

105. **Detrain, C.**, & Servigne, P. (2009). *How ant behaviour shape plant seed dispersal?* Paper session presented at International Ethological Conference (Rennes, Frances).

106. Verheggen, F., **Detrain, C.**, Diez, L., Wathelet, B., & Haubruge, É. (2009). *Aphid-ant mutualism: How do aphids focus ant foraging?* Paper session presented at International Symposium on Chemical Ecology (Neuchatel, Suisse).

107. Guiet, A., Dobly, A., Fretin, D., Goossens, E., Govaerts, M., Verheyden, B., De Smet, C., Kiourtsidis, D., Verdebout, F., **Detrain, C.**, Tavernier, P., & Roels, S. (2009). *Sero-epidemiological study of four pathogens in cervids from Belgium and Norway*. Paper session presented at Belgian Wildlife Disease Society Symposium (Belgique).

108. Sempo, G., Canonge, S., **Detrain, C.**, & Deneubourg, J.-L. (2009). *Weak individual preference versus strong collective sensitivity:a density-dependent process*. Paper session presented at 1st International conference at the center fo social dynamics and complexity ASU-CSDC (Arizona State university, USA).

109. Sempo, G., Le Polain, M., **Detrain, C.**, & Deneubourg, J.-L. (2009). *How habitat patchiness prevents collective decision making in gregarious species*. Paper session presented at International Ethological Conference (Rennes, France).

110. Collignon, B., & **Detrain, C.** (2009). *Distributed leadership in ants during foraging*. Paper session presented at International Ethological Conference (19/08/2009: Rennes).

111. Le Goff, G., Mailleux, A.-C., **Detrain, C.**, Deneubourg, J.-L., Clotuche, G., & Hance, T. (2009). *Web as a meeting point in the two spotted spider mite Tetranychus urticae*. Paper session presented at Meeting Ecology and Behaviour (Lyon, France).

112. Mailleux, A.-C., Astudillo Fernandez, A., **Detrain, C.**, & Deneubourg, J.-L. (2009). *Collective migration in House Dust Mites*. Paper session presented at 4th meeting of the International Dispersal workgroup (University of Ghent, Belgium).

113. Diez, L., & **Detrain, C.** (2009). *Selection d'un chemin préférentiel pour le dépôt de cadavre chez Myrmica rubra*. Paper session presented at colloque annuel de l'UIEIS (Bondy, France).

114. Clotuche, G., Le Goff, G., Mailleux, A.-C., Deneubourg, J.-L., & **Detrain, C.** (2009). *How can we play with spider mite balloons?* Paper session presented at 5th Meeting Ecology and Behaviour (Lyon,France).

115. Clotuche, G., Mailleux, A.-C., Deneubourg, J.-L., **Detrain, C.**, & Hance, T. (2009). *Characterization of spider mite balloons*. Paper session presented at 4th meeting of the International Dispersal workgroup (Ghent, Belgium).

116. Collignon, B., & **Detrain, C.** (2008). *Tuning of group recruitment in the ant Tetramorium caespitum*. Paper session presented at 15th Benelux congress of Zoology (Liège, Belgique).

117. **Detrain, C.** (2008). *Assessing nestmate density: key issue for insect societies.* Paper session presented at From molecules to human societies. Meeting on complexity and networks (Imperial College, London).

118. Verheggen, F., Diez, L., **Detrain, C.**, Wathelet, B., Francis, F., & Haubruge, É. (2008). *Aphid-ant mutualism: How do aphids focus ant foraging?* Paper session presented at International Congress of entomology (Durban, Afrique du Sud).

119. **Detrain, C.**, & Servigne, P. (2008). *Using sociality for dispersal: the case of myrmecochory*. Paper session presented at International Congress of Zoology (Paris, France).

120. **Detrain, C.**, & Deneubourg, J.-L. (2008). *How many nestmates ?: A key issue in ants? social organization*. Paper session presented at International Congress of Zoology (Paris).

121. Clotuche, G., Mailleux, A.-C., Deneubourg, J.-L., **Detrain, C.**, & Hance, T. (2008). *Role of the genetic proximity and web production in collective dispersal behavior of Tetranychus urticae Koch (Acari : Tetranychidae)*. Paper session presented at Congress of European Association of Acarologists (6th: Montpellier, France).

122. Le Goff, G., Mailleux, A.-C., **Detrain, C.**, Deneubourg, J.-L., Clotuche, G., Brendel, C., & Hance, P. (2008). *Aggregation behaviour in Tetranychus urticae*. Paper session presented at 6th Congress of european association of acarologists (Montpellier).

123. Sempo, G., Gibon, C., Canonge, S., **Detrain, C.**, & Deneubourg, J.-L. (2008). *Collective decision and interindividual variability in cockroaches*. Paper session presented at 4th European Congress of IUSSI (La Roche (Belgique)).

124. Collignon, B., & **Detrain, C.** (2008). *The influence of food type and food quality on the group recruitment in the ant Tetramorium caespitum*. Paper session presented at 4th European Congress of IUSSI (La Roche, Belgique).

125. Toffin, E., Di Paolo, D., Kindekens, J., **Detrain, C.**, & Deneubourg, J.-L. (2007). *Shape transition during nest construction in Lasius niger ant: effect of population and density on morphology.* Paper session presented at Colloque section Française de IUSSI (Toulouse).

126. **Detrain, C.** (2007). *Social cues and collective foraging in ant societies*. Paper session presented at Colloque section Française de IUSSI (2007: Toulouse, France).

127. Mailleux, A.-C., **Detrain, C.**, & Deneubourg, J.-L. (2007). *Aggregative behaviour in dust mites*. Paper session presented at 6th Congress of European Association of Acarologists (Montpellier, France).

128. Boeve, J.-L., **Detrain, C.**, & Petre, C. (2007). *Defence strategies in argid sawfly larvae*. Paper session presented at 23rd Meeting of International Society of Chemical Ecology (Jena, Allemagne).

129. Le Goff, G., Deneubourg, J.-L., **Detrain, C.**, Mailleux, A.-C., & Hance, T. (2007). *Aggregation and egg production in Tetranychus urticae*. Paper session presented at African acarology symposium (Hammamet, Tunisie).

130. Mailleux, A.-C., **Detrain, C.**, & Deneubourg, J.-L. (2006). *Recruitment process during migration in Dermatophagoides pteronyssinus*. Paper session presented at XII th International Congress of Acarology (Amsterdam, P-B).

131. Servigne, P., & **Detrain, C.** (2006). *Species-specific relationships between ants and myrmecochorous seeds*. Paper session presented at International Congress of IUSSI (Washington, USA).

132. **Detrain, C.**, & Devigne, C. (2006). *Density cue as an estimate of distance in ants.* Paper session presented at International Congress of IUSI (Washington, USA).

133. Le Goff, G., Hance, T., **Detrain, C.**, Deneubourg, J.-L., & Mailleux, A.-C. (2006). *Aggregation behaviour and genetic proximity in Tetranychus sp*. Paper session presented at 13th Congress of Zoology, Benelux (Leuven, Belgique).

134. Le Goff, G., Mailleux, A.-C., **Detrain, C.**, Deneubourg, J.-L., & Hance, T. (2006). *Aggregation behaviour and genetic proximity in Tetranychus sp.* Paper session presented at XII th International Congress of Acarology (Amsterdam, P-B).

135. Sempo, G., Depickere, S., Ame, J.-M., **Detrain, C.**, Halloy, J., & Deneubourg, J.-L. (2006). *Integration of an Autonomous Artificial Agent in an Insect Society: Experimental Validation.* Paper session presented at Ninth International Conference on Simulation of Adaptive Behaviour (Italie).

136. Deneubourg, J.-L., & **Detrain, C.** (2006). *Symbioses entre agents naturels et artificiels*. Paper session presented at Journées Francophones sur les Systèmes Multi-Agents (JFSMA) (Annecy).

137. **Detrain, C.** (2005). *Dealing with complexity: Intelligent decision criteria in ant societies*. Paper session presented at International Workshop Fondation Les treilles- (Tourtour – France).

138. **Detrain, C.**, & Devigne, C. (2005). *The influence of social context on ants'collective foraging patterns and individual decision-making.* Paper session presented at Congrès européen de l'IUSSI (St-Pétersbourg, Russie).

139. **Detrain, C.** (2005). *Comment gérer la complexité ?: Traitement de l'information et régulation sociale chez les insectes.* Paper session presented at Colloque annuel de la SFECA (Rennes).

140. **Detrain, C.** (2005). *Amplifying communication in a social context: trail pheromones and foraging strategies in ants.* Paper session presented at International workshop "Semiochemical research in Latin America" (Santiago de Chile, Chile).

141. Mailleux, A.-C., **Detrain, C.**, & Deneubourg, J.-L. (2005). *How ants simply regulate their foraging activities to their ressource productivity.* Paper session presented at XXIX INTERNATIONAL ETHOLOGICAL CONFERENCE (29: 20-27 August 2005: Budapest, Hungary).

142. Sempo, G., **Detrain, C.**, Depickere, S., Halloy, J., & Deneubourg, J.-L. (2005). *Collective selection of a resting site by a gregarious insect (Periplaneta americana).* Paper session presented at Congrès européen de l'IUSSI (Saint-Petersbourg, Russie).

143. Servigne, P., & **Detrain, C.** (2004). *Étude comportementale de la relation entre la plante myrmécochore Chelidonium majus et la fourmi Lasius niger*. Paper session presented at Colloque de l'UIEIS (Rennes).

144. Portha, S., Deneubourg, J.-L., & **Detrain, C.** (2003). *Intranidal regulation of recruitment : the effects of food nature and brood*. Paper session presented at Colloque de l'Union Internationale pour l'Etude des Insectes Sociaux (1-3 septembre 2003: Bruxelles).
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145. Devigne, C., & **Detrain, C.** (2003). *Exploration collective de l'environnement et recrutement alimentaire chez la fourmi Lasius niger.* Paper session presented at Colloque de la SFECA (6-8 avril 2003: Tours, France).
https://dipot.ulb.ac.be/dspace/bitstream/2013/94027/4/2f0c40a6-cc33-4f20-addb-ffadf8cfe908.txt

146. Sempo, G., & **Detrain, C.** (2003). *Sampling size effect on between-species comparison of behavioural repertoire of castes in Pheidole ant genus.* Paper session presented at Colloque de l'Union Internationale pour l'Etude des Insectes Sociaux (1-3 septembre 2003: Bruxelles).
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