CLAIMS

1. A fluid injector insert comprising an injector insert inlet coupled to a separate injector insert outlet to provide a channel between the coupled injector insert inlet and the injector insert outlet, wherein the injector insert inlet is constructed and arranged to couple to an injector assembly to fluidically couple a fluid flow path of the injector insert to a fluid flow path of the injector assembly so that a top surface of the injector insert inlet will be exposed to sample in the fluid flow path of the injector assembly, wherein the top surface of the injector insert inlet comprises a substantially inert metal material that is exposed to sample in the fluid flow path of the injector assembly, and wherein the injector insert outlet and the channel are configured to receive a column to fluidically couple the received column to the injector insert inlet to provide fluidic coupling between the injector insert inlet and the column to permit sample to flow to the column.

2. The fluid injector insert of claim 1, wherein the substantially inert metal material is present on the top surface at more than 50% by weight.

3. The fluid injector insert of claim 1, wherein the substantially inert metal material comprises titanium, aluminum, yttrium or combinations thereof.

4. The fluid injector insert of claim 3, wherein the substantially inert metal material comprises titanium oxide, aluminum oxide, yttrium oxide or combinations thereof.

5. The fluid injector insert of claim 1, wherein the substantially inert metal material comprises nickel.

6. The fluid injector insert of claim 5, wherein the substantially inert metal material is a nickel alloy.

7. The fluid injector insert of claim 1, wherein the substantially inert metal material comprises chromium.

8. The fluid injector insert of claim 7, wherein the substantially inert metal material is a nickel-chromium alloy.

9. The fluid injector insert of claim 1, wherein the top surface of the inlet and the outlet each comprises a substantially inert metal material.

10. The fluid injector insert of claim 9, wherein the substantially inert metal material of the inlet and the outlet are the same material.

11. A fluid injector insert comprising an injector insert inlet coupled to a separate injector insert outlet, wherein the injector insert inlet is constructed and arranged to fluidically couple to a fluid flow path of the injector assembly so that a top surface of the injector insert inlet will be exposed to sample in the fluid flow path of the injector assembly, wherein the top surface of the injector insert inlet comprises a non-catalytic metal material present in an effective amount to deter catalysis by the top surface of the injector insert inlet that is exposed to the sample in the fluid flow path, and wherein the injector insert outlet and the channel are configured to receive a column to fluidically couple the received column to the injector insert inlet and to provide fluidic coupling between the injector insert inlet and the column to permit sample to flow to the column.

12. The fluid injector insert of claim 11, wherein the non-catalytic metal material is present on the top surface at more than 50% by weight.

13. The fluid injector insert of claim 11, wherein the non-catalytic metal material comprises titanium, aluminum, yttrium or combinations thereof.

14. The fluid injector insert of claim 13, wherein the non-catalytic metal material comprises titanium oxide, aluminum oxide, yttrium oxide or combinations thereof.

15. The fluid injector insert of claim 11, wherein the non-catalytic metal material comprises nickel.

16. The fluid injector insert of claim 15, wherein the non-catalytic metal material is a nickel alloy.

17. The fluid injector insert of claim 11, wherein the non-catalytic metal material comprises chromium.

18. The fluid injector insert of claim 17, wherein the non-catalytic metal material is a nickel-chromium alloy.

19. The fluid injector insert of claim 11, wherein the top surface of the inlet and the outlet each comprises a non-catalytic metal material.

20. The fluid injector insert of claim 19, wherein the non-catalytic metal material of the inlet and the outlet are the same material.